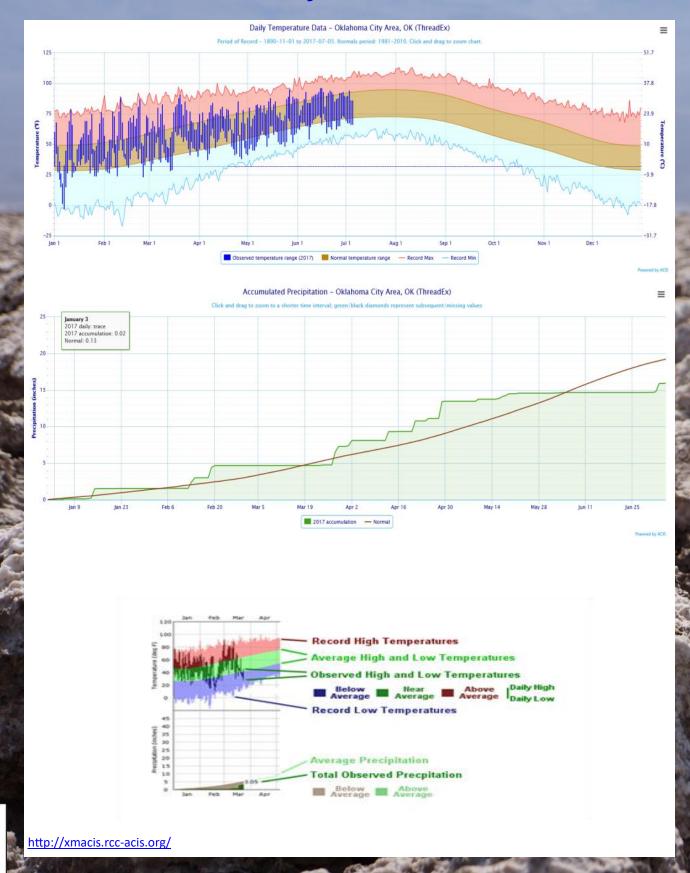




Temperature and Precipitation Plot for Oklahoma City, Oklahoma for 2017



acog

Rainfall Summaries by Oklahoma Climate Division

Calendar Year 01-Jan-2017 though 04-Jul-2017

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	18.20"	+2.93"	119%	19th wettest	4.88" (2011)	25.59" (1957)
Central	23.54"	+3.34"	117%	21st wettest	8.32" (1936)	34.37" (1957)
S. Central	23.97"	+1.85"	108%	23rd wettest	9.83" (1963)	43.70" (2015)
Statewide	23.49"	+4.04"	121%	13th wettest	9.20" (1936)	32.91" (1957)

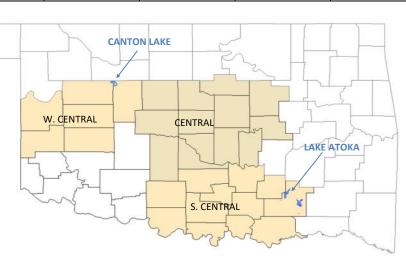
Water Year: 01-Oct-2016 through 04-Jul-2017

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	20.58"	-0.23"	99%	37th wettest	9.42" (2010-11)	31.32" (2006-07)
Central	26.76"	-1.55"	95%	40th wettest	14.23" (1995-96)	43.52" (1984-85)
S. Central	28.91"	-2.90"	91%	47th wettest	13.41" (1924-25)	52.52" (2014-15)
Statewide	27.41"	-0.12"	100%	40th wettest	14.54" (1955-56)	38.85" (1956-57)

Summer: 01-Jun 2017 through 04-Jul-2017

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	2.78"	-1.68"	62%	27th driest	0.61" (1933)	8.84" (1962)
Central	4.15"	-1.24"	77%	45th driest	0.51" (1933)	13.65" (2007)
S. Central	5.80"	+0.55"	111%	24th wettest	0.19" (1933)	11.84" (2007)
Statewide	4.84"	-0.12"	98%	42nd wettest	0.54" (1933)	10.77" (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.

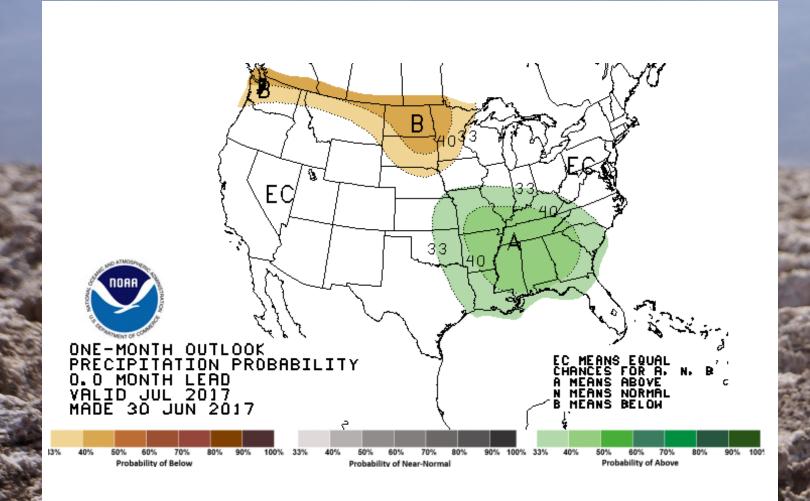








NOAA One-Month Outlook

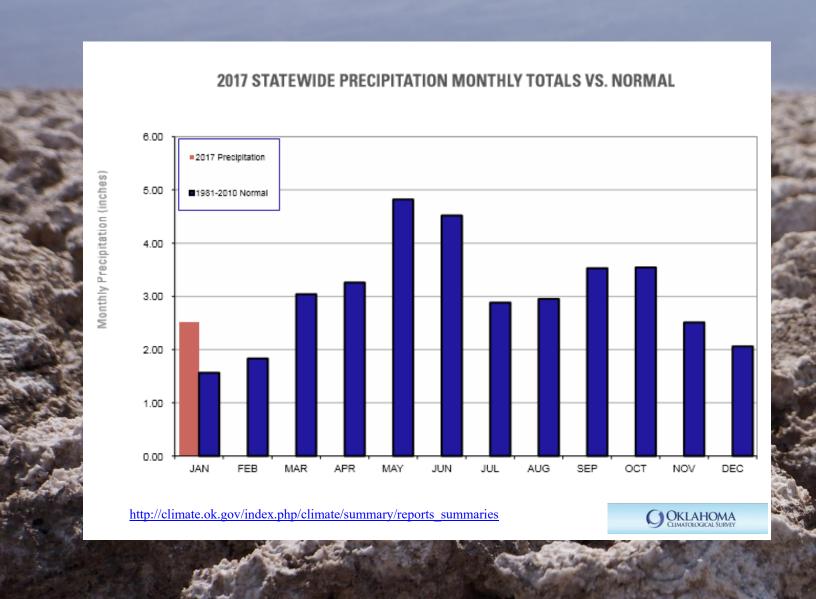


http://www.cpc.ncep.noaa.gov/products/predictions/30-day/

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.

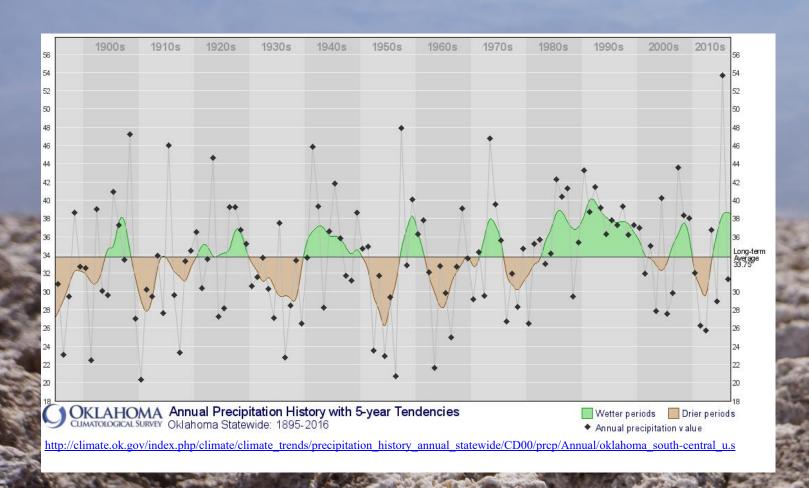


Statewide Precipitation Monthly Totals vs. Normal





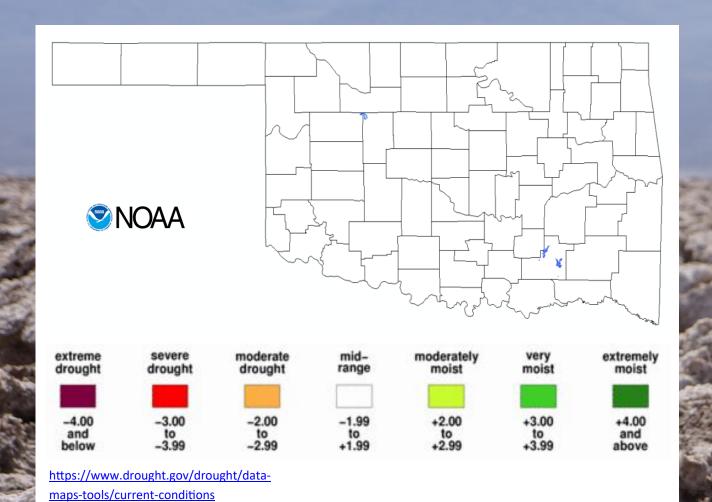
Annual Precipitation Historywith 5-Year Tendencies



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 Weekly Value for Period JUL 2017



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

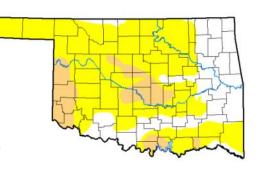
Regional Map Week of 30 MAY 2017

Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current <u>2017-06-27</u>	30.33	69.67	12.25	0.00	0.00	0.00
Last Week 2017-06-20	73.11	26.89	3.18	0.00	0.00	0.00
3 Months Ago 2017-03-28	7.24	92.76	77.80	36.07	2.99	0.00
Start of Calendar Year 2016-12-27	5.63	94.37	72.32	45.73	3.14	0.00
Start of Water Year 2016-09-27	57.82	42.18	19.04	3.05	0.00	0.00
One Year Ago <u>2016-06-28</u>	77.65	22.35	5.86	0.00	0.00	0.00

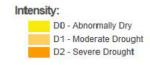
U.S. Drought Monitor

Oklahoma

Estimated Population in Drought Areas: 1,053,465



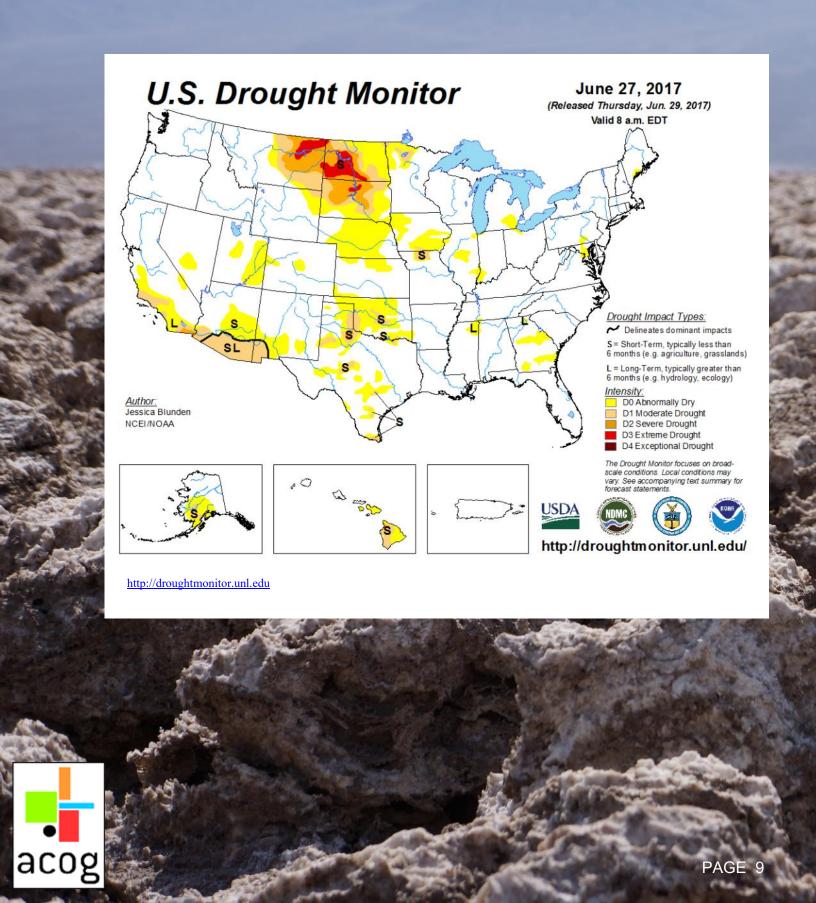
<u>http://droughtmonitor.unl.edu/Home/StateDroughtMonitor.aspx?OK</u>





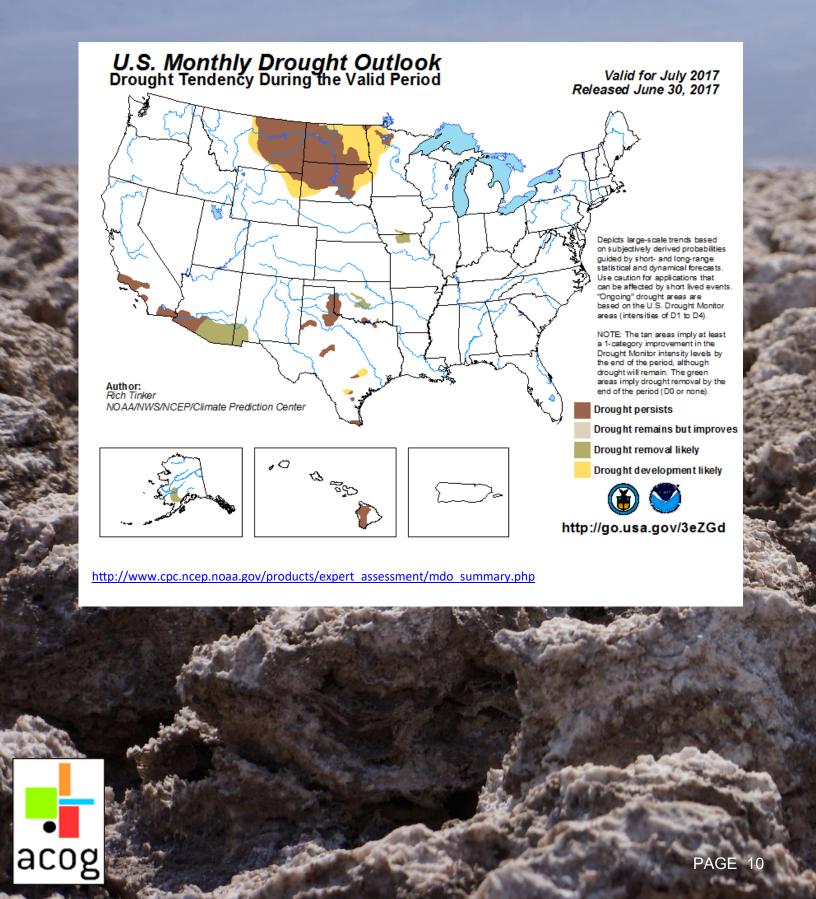


U.S. Drought Monitor Nationwide Map



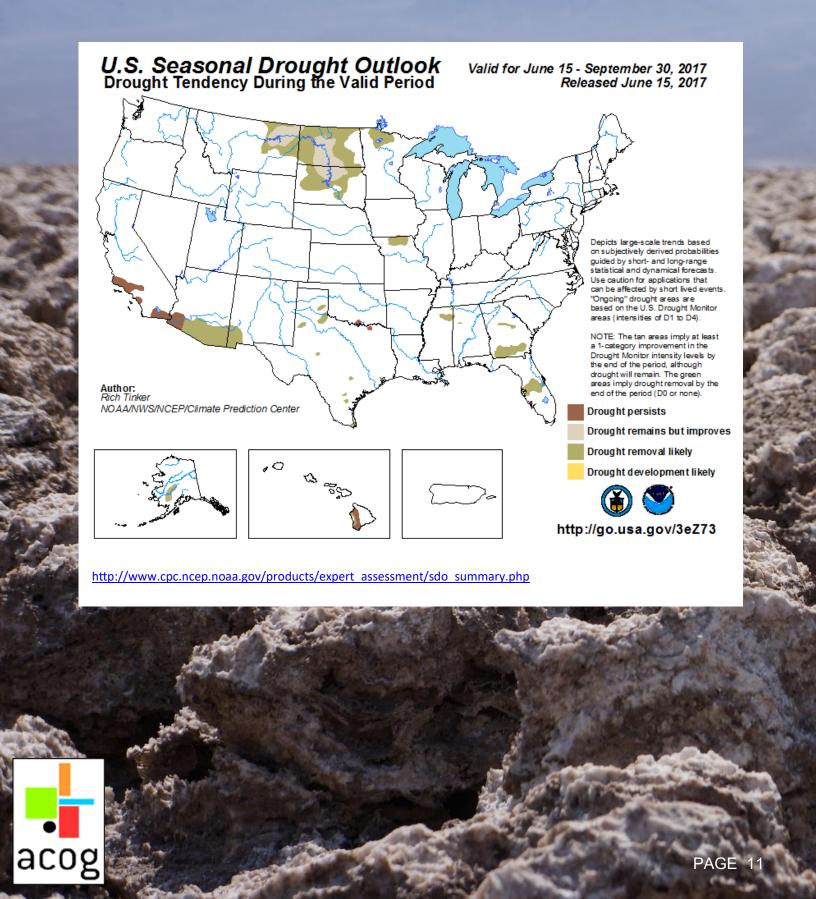
U.S. Drought Monitor

Monthly Drought Outlook Map

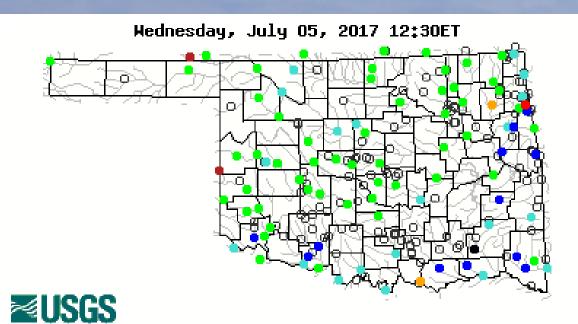


U.S. Drought Monitor

Seasonal Drought Outlook Map

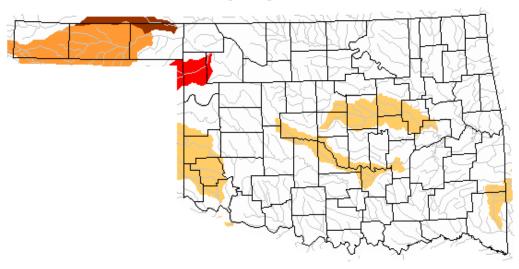


USGS Streamflow Data



		Explan	ation - I	Percent	ile classe	s	
•				•	•	•	0
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
LOW	Much below normal	Below normal	Normal	Above normal	Much above normal		

Tuesday, July 04, 2017





Below normal 28-day average streamflow

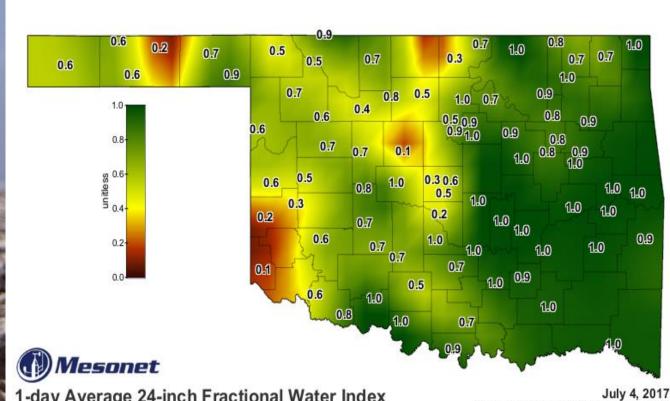
Explanation - Percentile classes							
Low	<=5	6-9	10-24	Insufficient data			
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	for a hydrolog is region			

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

http://ok.water.usgs.gov/drought/

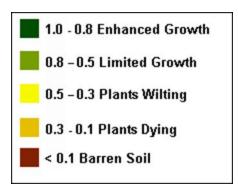


SOIL MOISTURE MAP



1-day Average 24-inch Fractional Water Index

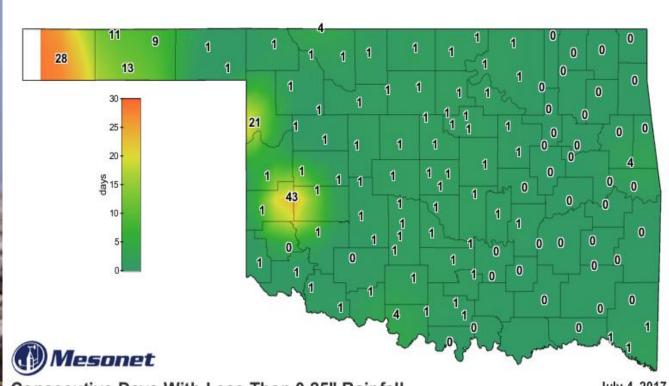
Created 7:30:14 AM July 5, 2017 CDT. @ Cop



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



CONSECUTIVE DAYS WITHOUT RAINFALL MAP



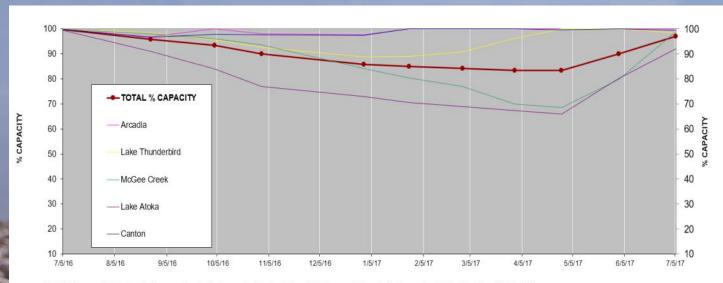
Consecutive Days With Less Than 0.25" Rainfall

July 4, 2017 Created 8:15:02 AM July 5, 2017 CDT. © Copyright 2017

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.

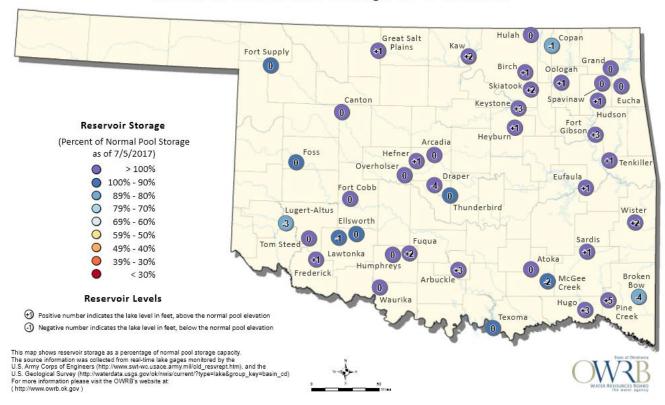
		% CHANGE FROM
LAKE	% CAPACITY	6/1/2017
Canton	99.4	-0.6
Arcadia	100.0	0.0
Lake Thunderbird	98.4	-1.6
McGee Creek	98.9	19.0
Lake Atoka	92.0	11.8
TOTAL % CAPACITY	97.1	7.1

http://www.swt-wc.usace.army.mil/old_resvrept.htm 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.

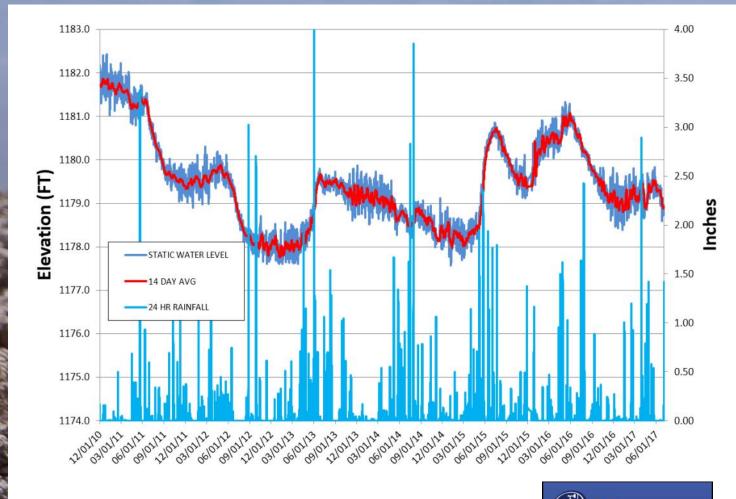
Oklahoma Surface Water Resources

Reservoir Levels and Storage as of 7/5/2017



http://www.owrb.ok.gov/maps/pdf map/Monthly%20Reservoir%20Storage.pdf

Groundwater Levels Spencer Mesonet Station

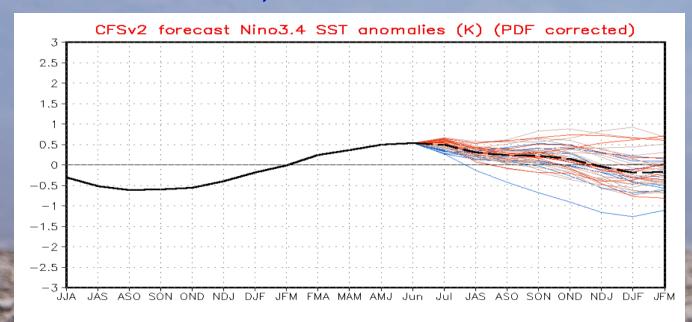


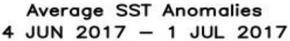


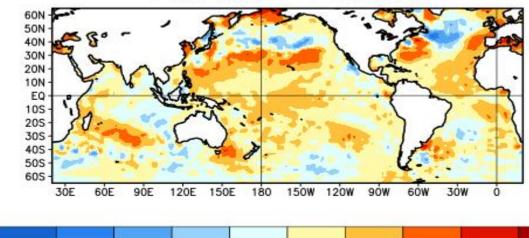




ENSO Cycle Recent Evolution, Current Status and Predictions







-0.5

-1



Summary

0.5

1

3

2

ENSO Alert System Status: Not Active

ENSO-neutral conditions are present.

-2

- Equatorial sea surface temperatures (SSTs) are near-to-above average across most of the Pacific Ocean.
- ENSO-neutral and El Niño are nearly equally favored during the Northern Hemisphere fall 2017.

