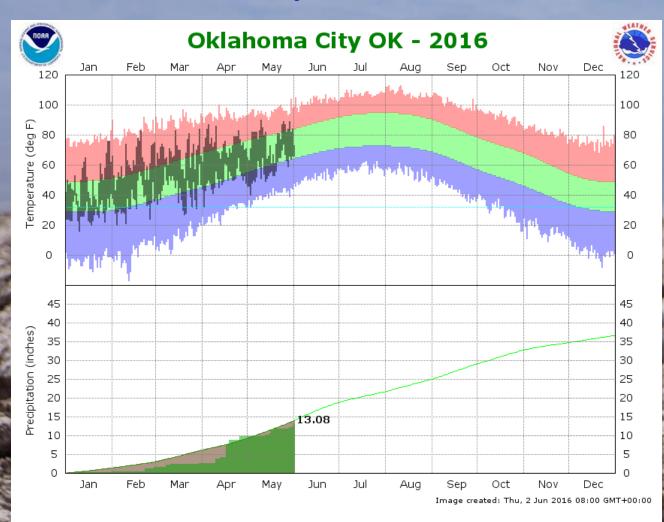
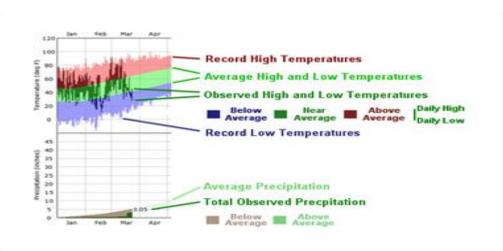




Temperature and Precipitation Plot for Oklahoma City, Oklahoma for 2016









Rainfall Summaries by Oklahoma Climate Division

Calendar Year 01-Jan-2016 though

01-Jun-2016

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	10.33"	-0.64"	94%	48th driest	3.66" (2011)	21.20" (1957)
Central	13.99"	-0.99"	93%	44th wettest	5.45" (2014)	27.12" (1990)
S. Central	20.07"	+3.01"	118%	17th wettest	8.65" (1963)	36.05" (1990)
Statewide	14.78"	+0.12"	101%	37th wettest	7.07" (1936)	26.10" (1957)

Water Year: 01-Oct-2015 through 01-Jun-2016

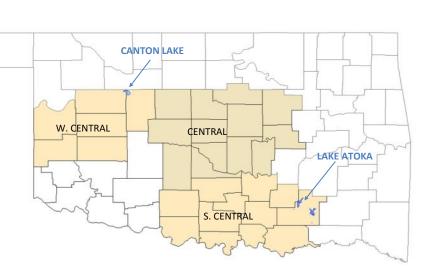
Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	18.32"	+1.81"	111%	24th wettest	5.89" (1970-71)	26.49" (1986-87)
Central	27.24"	+4.15"	118%	19th wettest	11.00" (2013-14)	36.04" (1984-85)
S. Central	41.08"	+14.33"	154%	3rd wettest	12.43" (1955-56)	41.74" (1956-57)
Statewide	30.06"	+7.32"	132%	7th wettest	12.35" (1995-96)	32.04" (1956-57)

Spring: 01-Mar-2016 through

01-Jun-2016

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	8.70"	-0.14"	98%	44th wettest	2.25" (1971)	19.31" (1957)
Central	11.86"	+0.20"	102%	39th wettest	3.98" (2005)	22.74" (1957)
S. Central	17.60"	+4.98"	139%	9th wettest	4.90" (2005)	29.14" (2015)
Statewide	12.94"	+1.75"	116%	21st wettest	5.51" (2005)	22.89" (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.

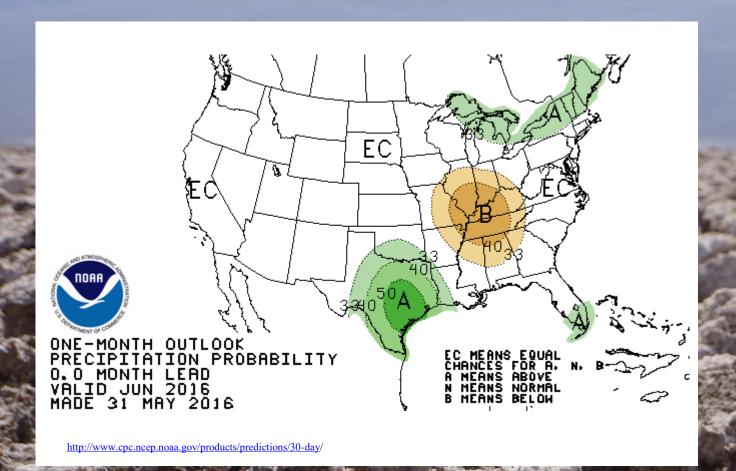


http://climate.ok.gov/index.php/drought/last 30 days/





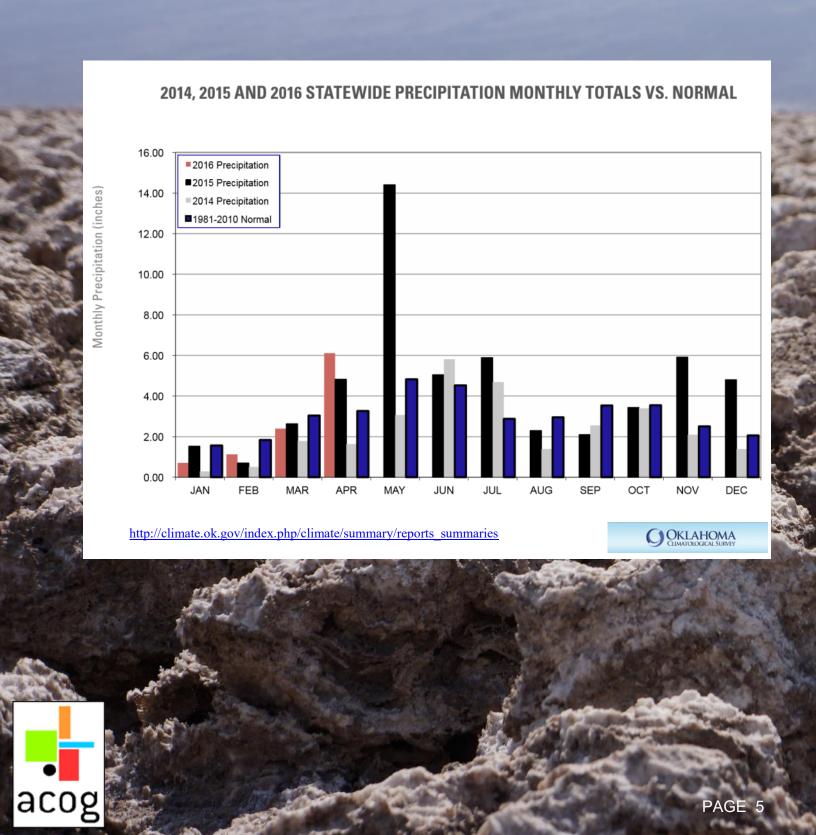
NOAA One-Month Outlook



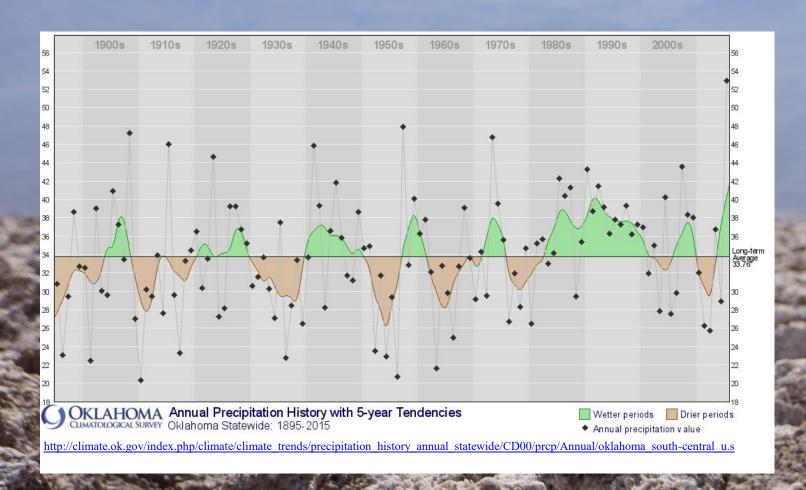
White areas are shown as EC (Equal Chance) on these maps represent areas where there are no strong climate signals from the climate tools to have skill in preferring one category over another. That doesn't mean that there are equal chances of each of the categories occurring – it means that currently there is no skill in identifying the most likely category. In these areas, it is best to be prepared for all possibilities.



Statewide Precipitation Monthly Totals vs. Normal



Annual Precipitation Historywith 5-Year Tendencies

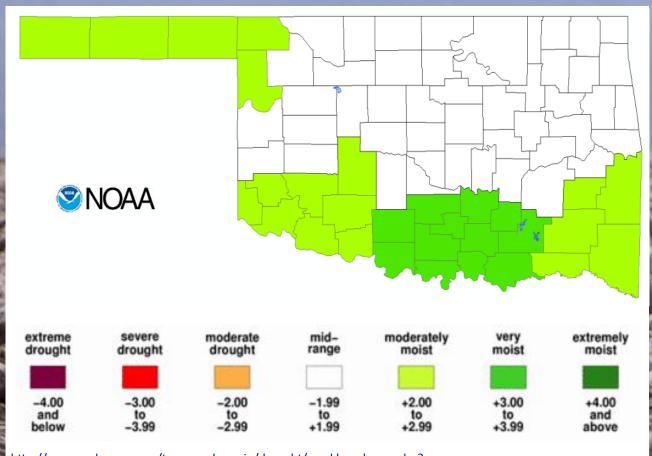


This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years. This smoothed line shows well the wet periods (shaded green) and the drought 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 MAY 28 2016



 $\frac{http://www.ncdc.noaa.gov/temp-and-precip/drought/weekly-palmers.php?}{year=2014\&month=04\&day=12}$

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.

For an animated gif of the long term PDI see http://www.ncdc.noaa.gov/oa/climate/research/prelim/drought/pdiimage.html.



U.S. Drought Monitor

Regional Map Week of 31 MAY 2016

Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current <u>2016-05-24</u>	97.16	2.84	0.00	0.00	0.00	0.00
Last Week 2016-05-17	97.16	2.84	1.50	0.00	0.00	0.00
3 Months Ago <u>2016-02-23</u>	98.99	1.01	0.00	0.00	0.00	0.00
Start of Calendar Year 2015-12-29	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 2015-09-29	52.60	47.40	16.79	6.37	0.97	0.00
One Year Ago <u>2015-05-26</u>	77.31	22.69	2.74	0.00	0.00	0.00

U.S. Drought Monitor

Oklahoma

Estimated Population in Drought Areas: 0

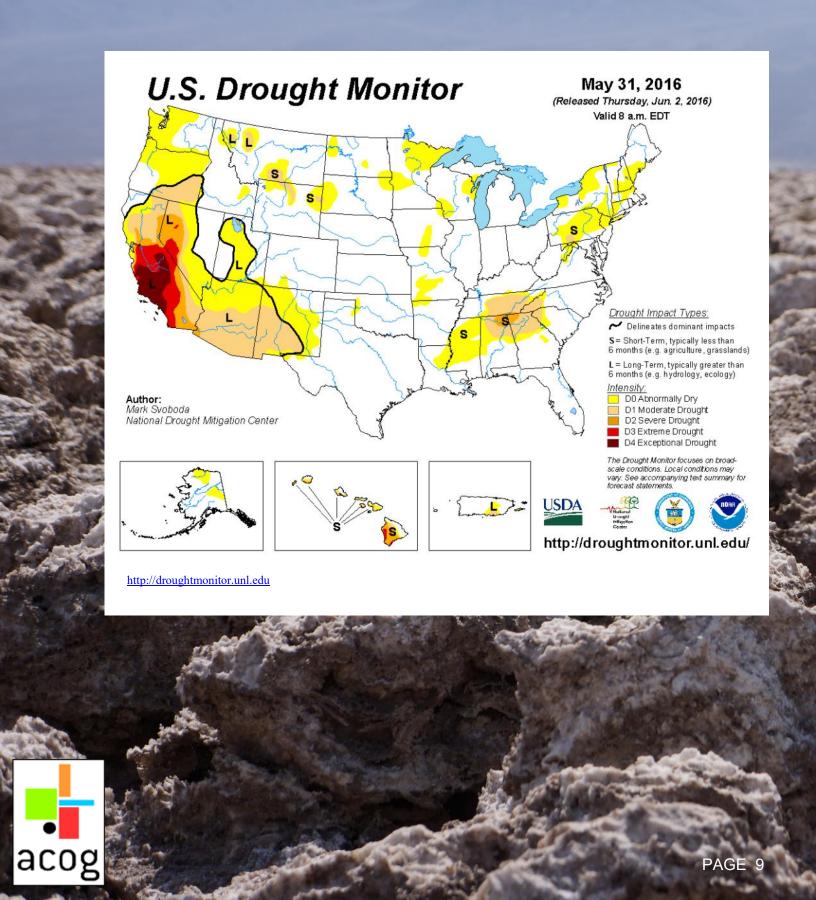


http://droughtmonitor.unl.edu/Home/ StateDroughtMonitor.aspx?OK



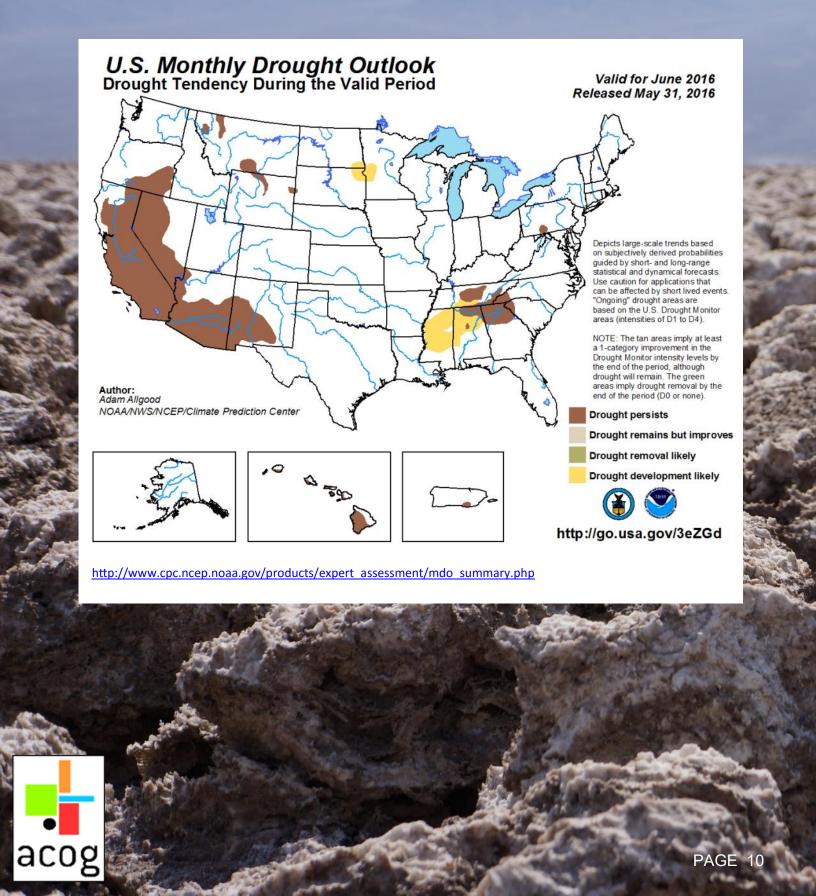


U.S. Drought Monitor Nationwide Map



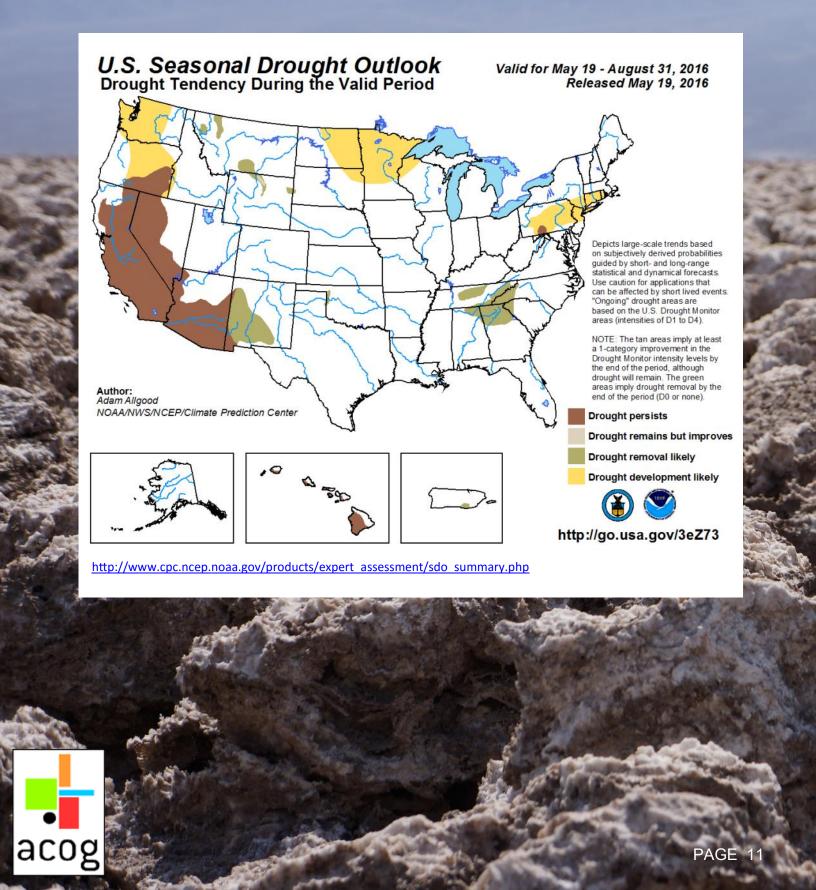
U.S. Drought Monitor

Monthly Drought Outlook Map

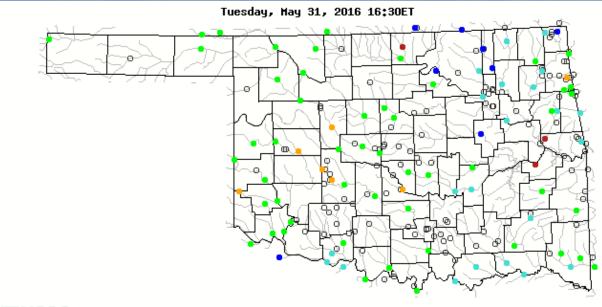


U.S. Drought Monitor

Seasonal Drought Outlook Map



USGS Streamflow Data



ZUSGS

		Explan	ation - F	Percent	ile classe	s	
•				•	•	•	0
Low <10	<10	10-24	25-75	76-90	>90	ve riigii	Mat make
LOW		Below normal	Normal	Above normal	Much above normal		Not-ranked

Monday, May 30, 2016





Below normal 28-day average streamflow

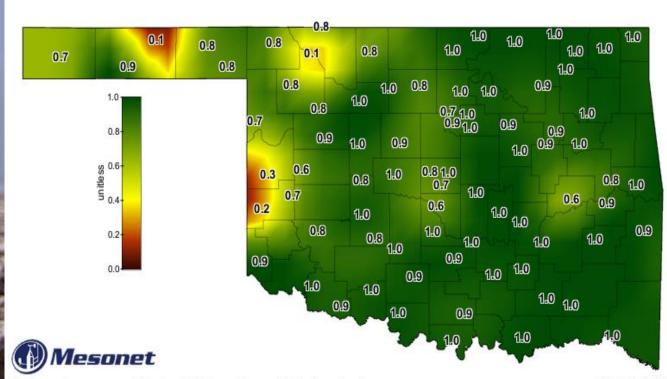
	Explanation	 Percentile clas 	ses	
Low	<=5	6-9	10-24	Insufficient data
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	for a hydrolog is region

 $\underline{http://waterwatch.usgs.gov/new/?m=real\&r=ok\&w=map}$

 $\underline{http://waterwatch.usgs.gov/new/index.php?m=dryw\&r=ok}$

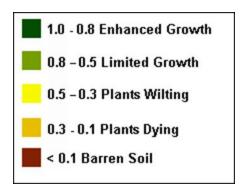


SOIL MOISTURE MAP



1-day Average 24-inch Fractional Water Index

June 1, 2016 Created 7:30:14 AM June 2, 2016 CDT. © Copyright 2016

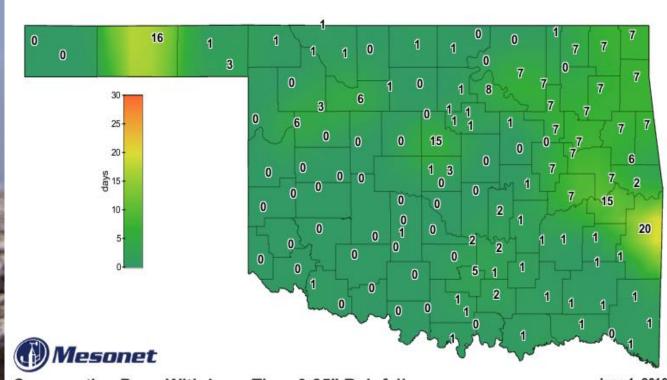


http://www.mesonet.org/index.php/weather/map/24-inch fractional water index/soil moisture



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CONSECUTIVE DAYS WITHOUT RAINFALL MAP



Consecutive Days With Less Than 0.25" Rainfall

June 1, 2016 Created 8:15:02 AM June 2, 2016 CDT. © Copyright 2016

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



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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.

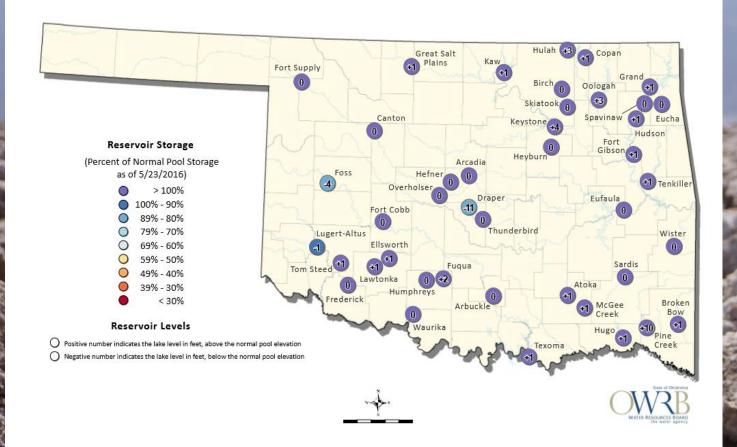
		% CHANGE FROM
LAKE	% CAPACITY	4/29/2016
Canton	100.0	0.0
Arcadia	100.0	0.0
Lake Thunderbird	100.0	0.0
McGee Creek	100.0	0.0
Lake Atoka	100.0	0.0
TOTAL % CAPACITY	100.0	0.0

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.



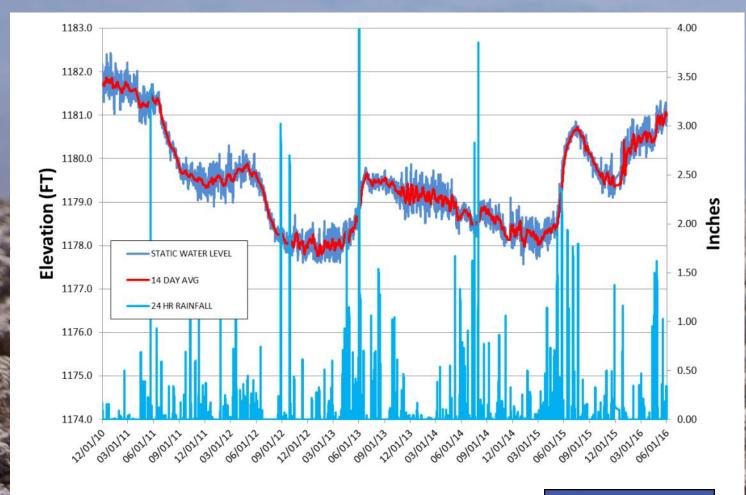
Oklahoma Surface Water Resources



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



Groundwater Levels Spencer Mesonet Station

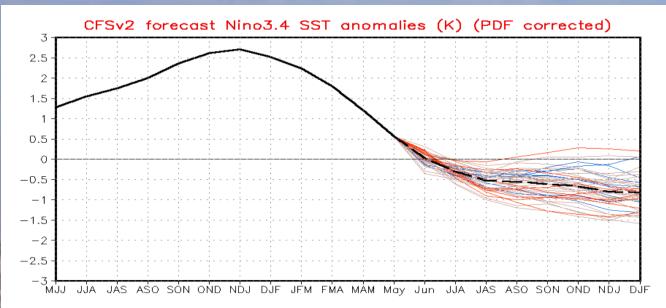


 $\underline{http://www.mesonet.org/index.php/weather/groundwater}$

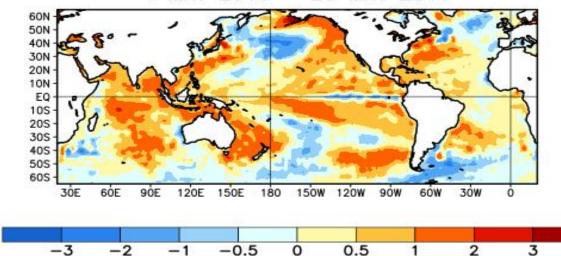




ENSO Cycle Recent Evolution, Current Status and Predictions



Average SST Anomalies MAY 2016 - 28 MAY 2016





Summary

ENSO Alert System Status: El Niño Advisory/ La Niña Watch

- El Niño is weakening.
- Positive equatorial sea surface temperature (SST) anomalies are diminishing across the equatorial Pacific Ocean.
- La Niña is favored to develop during the Northern Hemisphere summer 2016, with about a 75% chance of La Niña during the fall and winter 2016-17.

