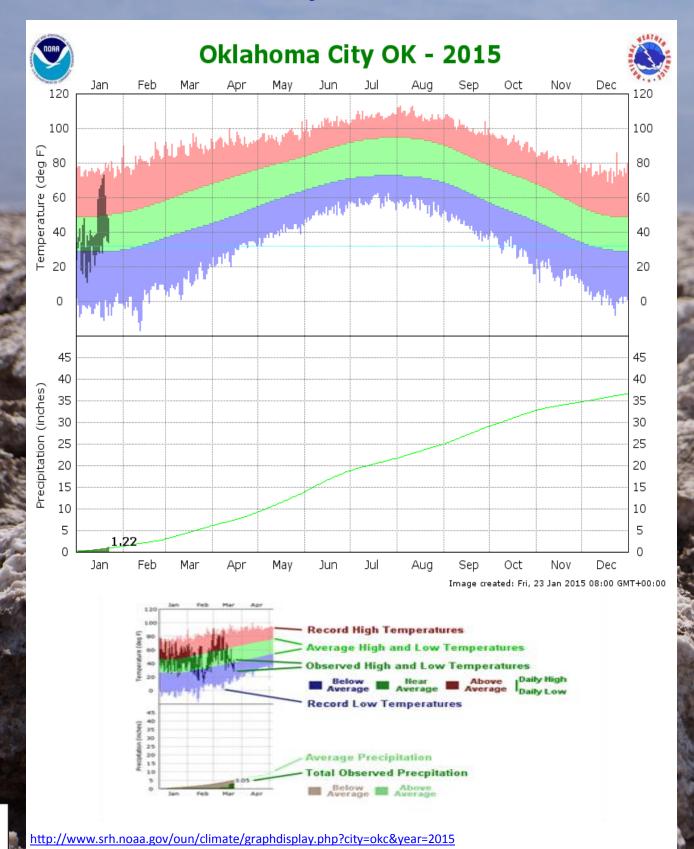




Temperature and Precipitation Plot for Oklahoma City, Oklahoma for 2015



acog

Rainfall Summaries by Oklahoma Climate Division

Calendar Year 01-Jan-2015 though 22-Jan-2015

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Rec- ord	Wettest on Record
W. Central	0.58"	-0.06"	91%	42nd wettest	0.00" (1986)	2.47" (1949)
Central	0.81"	-0.16"	84%	43rd wettest	0.00" (1967)	4.78" (1932)
S. Central	1.66"	+0.24"	117%	26th wettest	0.00" (1967)	6.47" (1932)
Statewide	0.98"	-0.11"	90%	42nd wettest	0.01" (1967)	4.47" (1932)

Water Year: 01-Oct-2014 through 22-Jan-2015

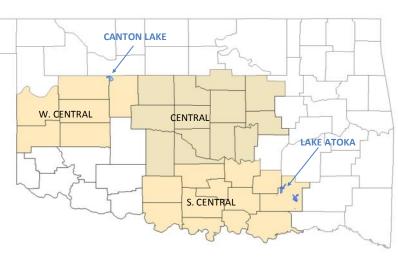
Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	5.11"	-1.07"	83%	45th wettest	1.09" (1966-67)	13.40" (1986-87)
Central	7.46"	-1.62"	82%	47th driest	1.98" (1966-67)	16.50" (1984-85)
S. Central	10.53"	-0.58"	95%	39th wettest	2.10" (1950-51)	19.76" (1981-82)
Statewide	7.93"	-1.24"	87%	45th wettest	2.43" (1950-51)	15.00" (2004-05)

Winter 2014 01-Dec-2014 through

22-Jan-2015

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	1.07"	-0.79"	57%	35th driest	0.15" (1955-56)	4.89" (1959-60)
Central	1.74"	-1.22"	59%	30th driest	0.35" (2005-06)	8.43" (1984-85)
S. Central	3.48"	-0.53"	87%	44th wettest	0.51" (2005-06)	10.32" (1997-98)
Statewide	2.38"	-0.78"	75%	40th driest	0.61" (2005-06)	7.10" (1997-98)

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.

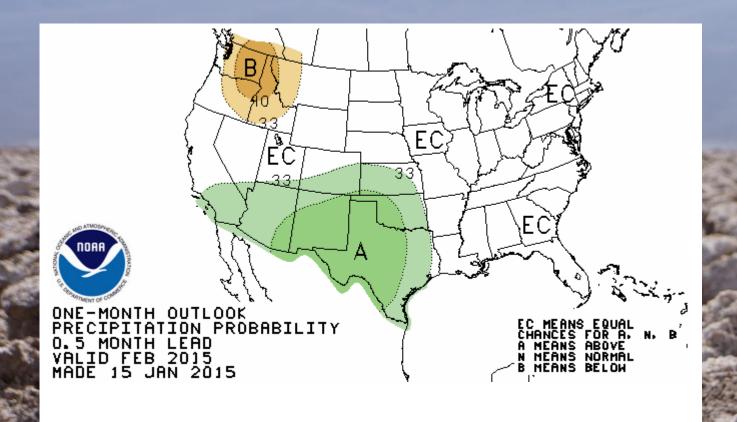








NOAA One-Month Outlook

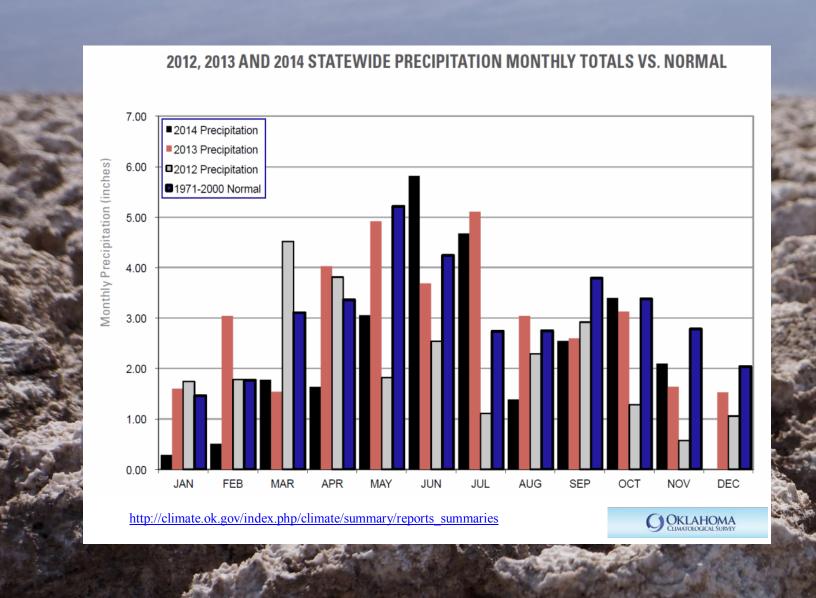


http://www.cpc.ncep.noaa.gov/products/predictions/30-day/

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.

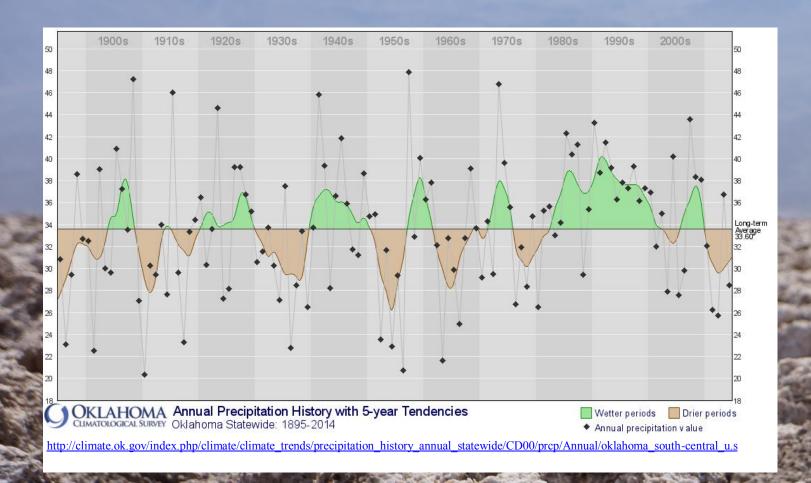


Statewide Precipitation Monthly Totals vs. Normal





Annual Precipitation Historywith 5-Year Tendencies

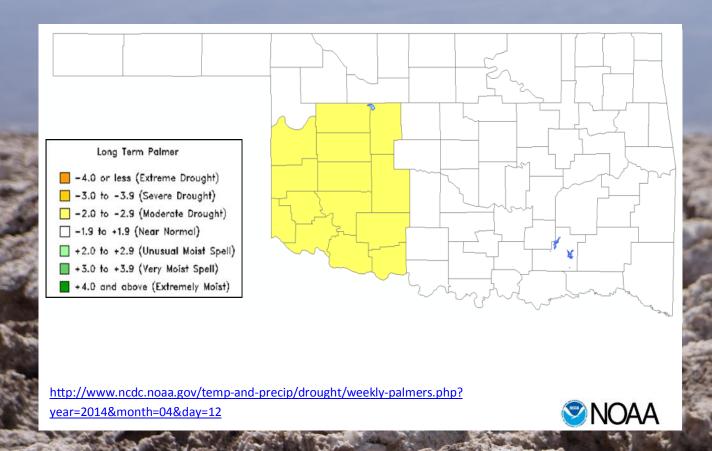


This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years. This smoothed line shows well the wet periods (shaded green) and the drought periods (shaded brown). The drought cycles appear to average about five to eight years in length.

We are currently in Year 5 of a eight to ten year drought cycle.



Drought Severity Index by Climate Division Palmer Weekly Value for Period JAN 03 2015



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

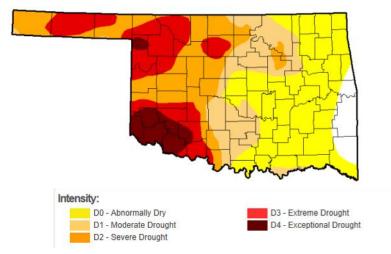
Regional Map Week of 02 DEC 2014

Drought Condition (Percent Area):

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	<u>2015-01-</u> <u>20</u>	5.03	94.97	60.60	43.87	22.58	5.69
Last Week	2015-01- 13	29.59	70.41	59.12	42.59	22.58	5.69
3 Months Ago	2014-10- 21	22.15	77.85	64.49	55.44	20.87	4.84
Start of Calendar Year	2014-12- 30	25.63	74.37	62.03	40.84	21.74	5.70
Start of Water Year	<u>2014-09-</u> <u>30</u>	8.55	91.45	73.31	58.13	20.92	4.64
One Year Ago	<u>2014-01-</u> <u>21</u>	35.17	64.83	38.04	18.99	4.84	2.40

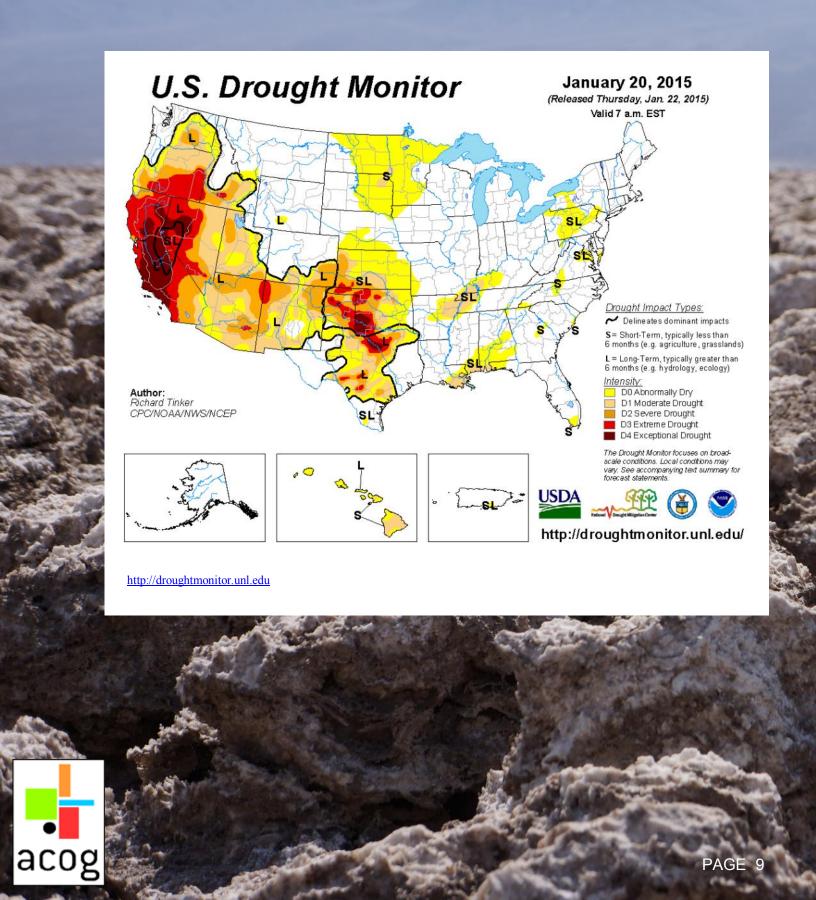
U.S. Drought Monitor Oklahoma

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



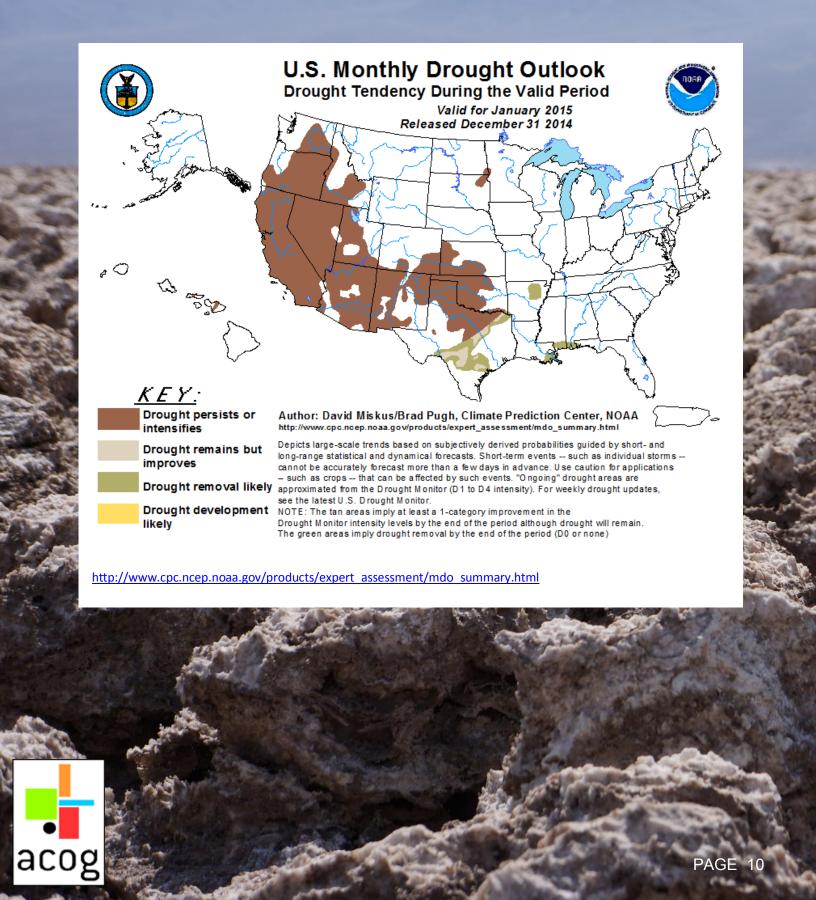


U.S. Drought Monitor Nationwide Map



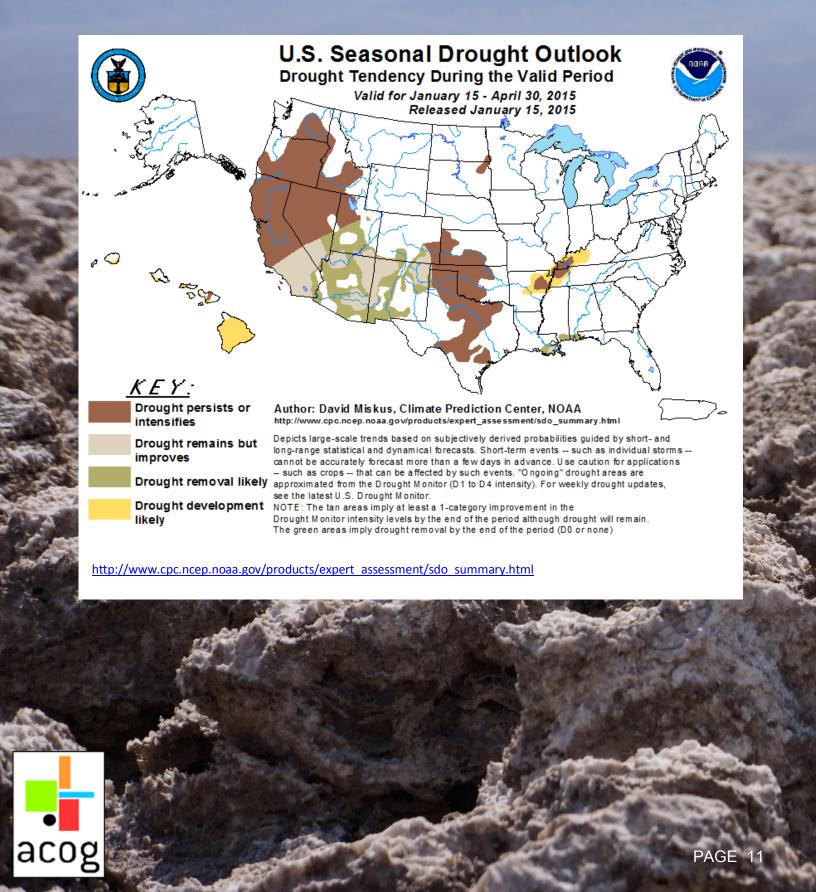
U.S. Drought Monitor

Monthly Drought Outlook Map

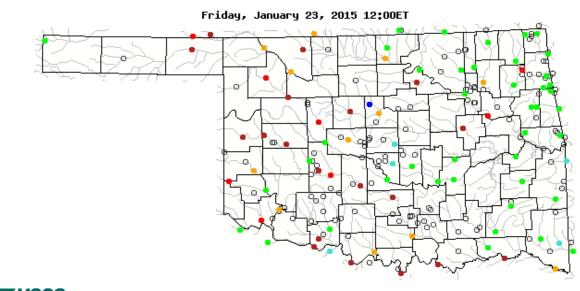


U.S. Drought Monitor

Seasonal Drought Outlook Map



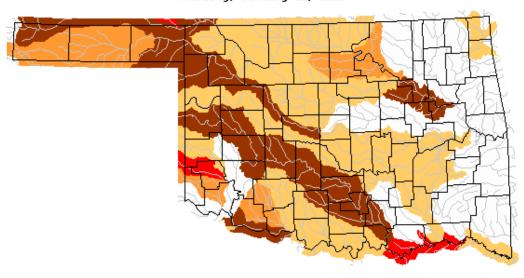
USGS Streamflow Data



■USGS

		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		

Thursday, January 22, 2015



■USGS

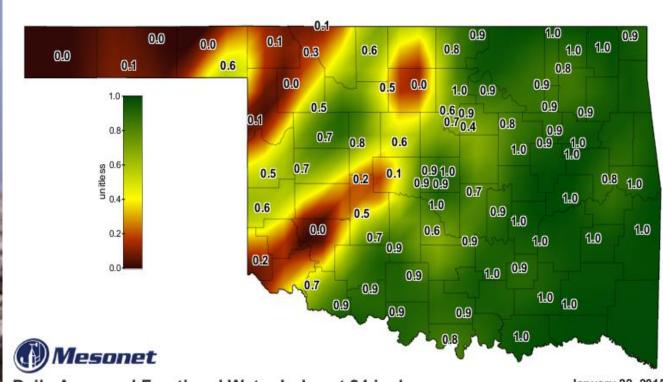
Explanation - Percentile classes							
Low	<=5	6-9	10-24	Insufficient data			
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	for a hydrolog is region			

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

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

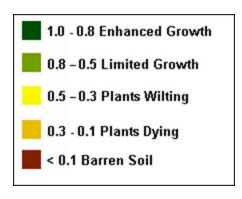


SOIL MOISTURE MAP



Daily Averaged Fractional Water Index at 24 inches

January 22, 2015 Created 6:30:14 AM January 23, 2015 CST. © Copyright 2015

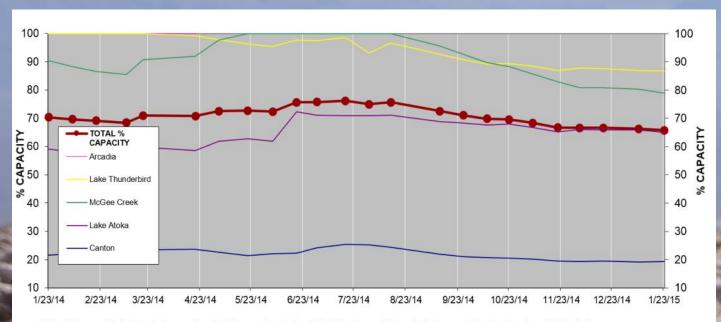


http://www.mesonet.org/index.php/weather/map/24-inch fractional water index/soil moisture



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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	1/8/2015
Canton	19.4	0.2
Arcadia	100.0	0.0
Lake Thunderbird	86.7	-0.2
McGee Creek	79.0	-1.4
Lake Atoka	65.1	-0.8
TOTAL % CAPACITY	65.7	-0.5

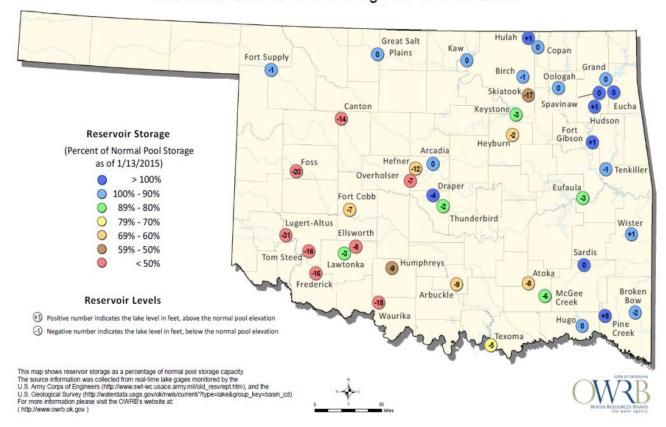
http://www.swt-wc.usace.army.mil/old_resvrept.htm http://waterdata.usgs.gov/ok/nwis/dv/?site_no=07333010&agency_cd=USGS&referred_module=sw

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

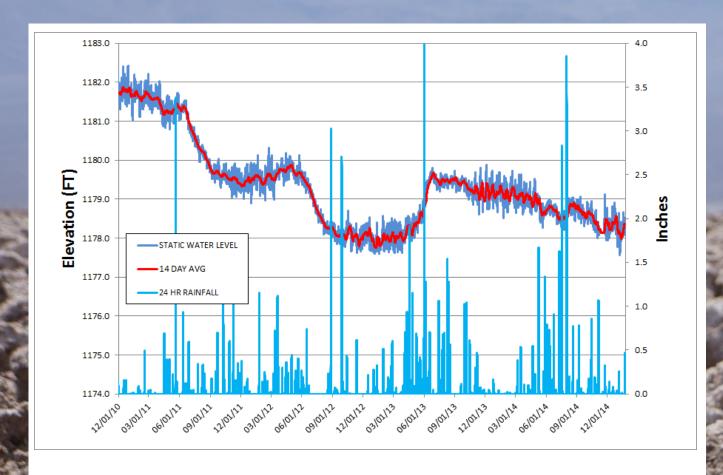
Reservoir Levels and Storage as of 1/13/2015



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



Groundwater Levels Spencer Mesonet Station

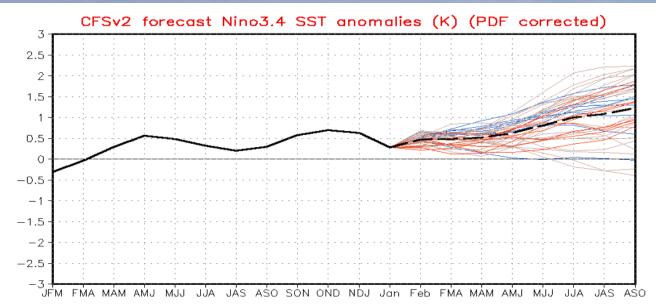


http://www.mesonet.org/index.php/weather/groundwater

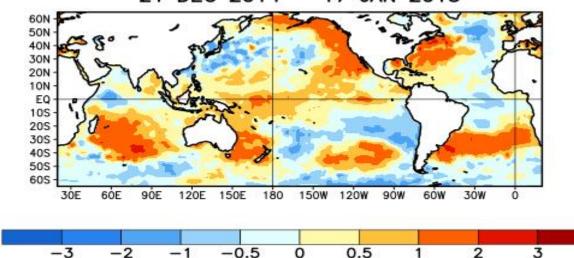




ENSO Cycle Recent Evolution, Current Status and Predictions



Average SST Anomalies 21 DEC 2014 - 17 JAN 2015





Summary

ENSO Alert System Status: El Niño Watch

- ENSO-neutral conditions continue.
- Positive equatorial sea surface temperature (SST) anomalies continue across most of the Pacific Ocean.
- There is an approximately 50-60% chance of El Niño conditions during the next two months, with ENSO-neutral favored thereafter.

