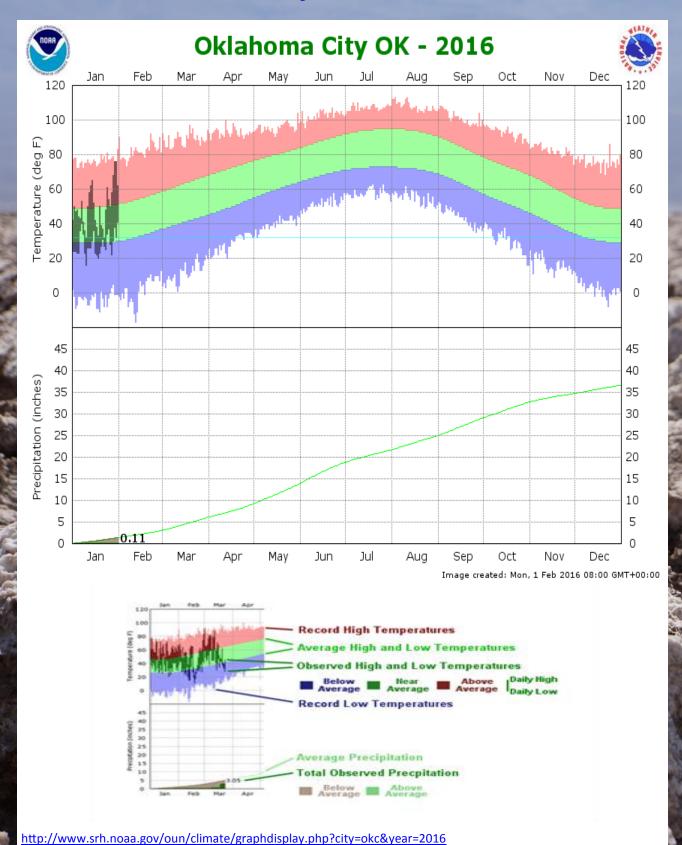




Temperature and Precipitation Plot for Oklahoma City, Oklahoma for 2016



acog



Rainfall Summaries by Oklahoma Climate Division

Calendar Year 01-Jan-2016 though 31-Jan-2016

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	1.27"	+0.32"	134%	23rd wettest	0.00" (1986)	3.92" (1949)
Central	0.49"	-0.94"	34%	21st driest	0.00" (1986)	5.73" (1949)
S. Central	0.67"	-1.35"	33%	22nd driest	0.02" (2003)	6.86" (1932)
Statewide	0.71"	-0.86"	45%	22nd driest	0.04" (1986)	5.30" (1949)

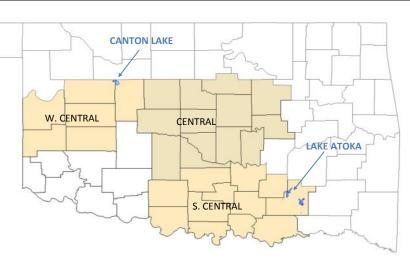
Water Year: 01-Oct-2015 through 31-Jan-2016

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	9.26"	+2.77"	143%	11th wettest	1.11" (1950-51)	13.41" (1986-87)
Central	13.74"	+4.20"	144%	11th wettest	2.41" (1921-22)	17.26" (1984-85)
S. Central	21.67"	+9.96"	185%	2nd wettest	2.14" (1950-51)	22.27" (1981-82)
Statewide	16.01"	+6.36"	166%	1st wettest	2.48" (1950-51)	15.59" (2004-05)

Winter: 01-Dec-2015 through 31-Jan-2016

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	3.74"	+1.57"	172%	11th wettest	0.26" (1976-77)	5.26" (1984-85)
Central	5.14"	+1.72"	150%	9th wettest	0.50" (2010-11)	9.20" (1984-85)
S. Central	7.09"	+2.48"	154%	6th wettest	0.93" (1951-52)	11.10" (1997-98)
Statewide	6.65"	+3.01"	183%	3rd wettest	1.00" (1955-56)	7.61" (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.

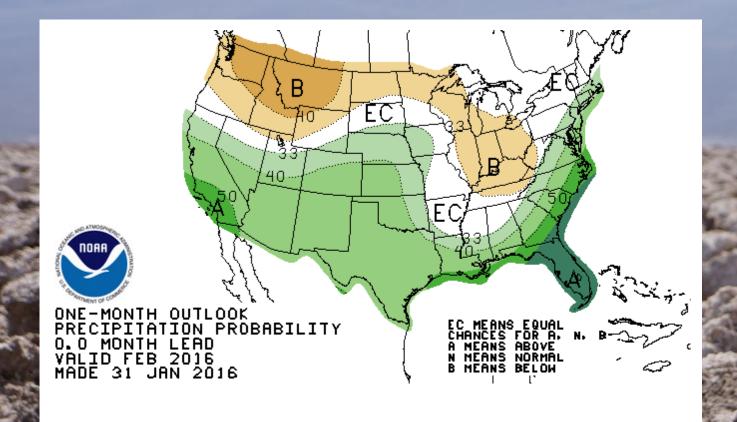


http://climate.ok.gov/index.php/drought/last_30_days/





NOAA One-Month Outlook

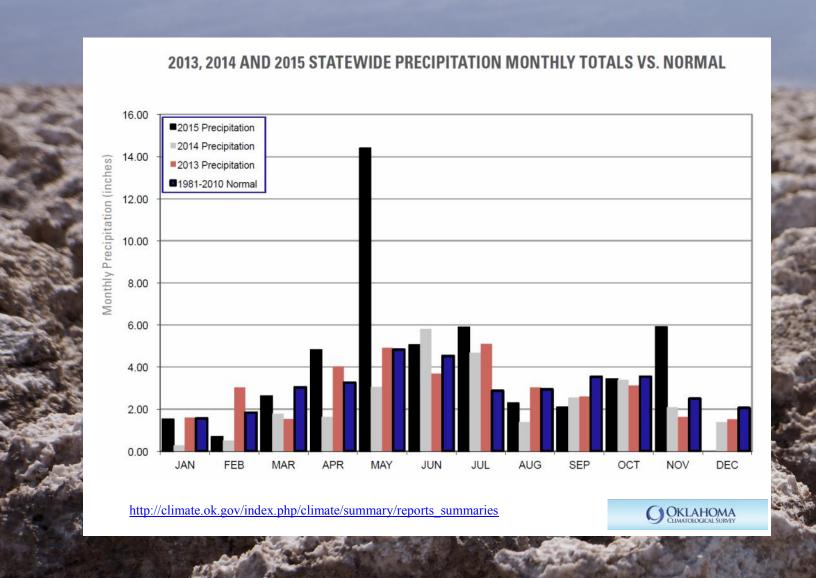


 $\underline{http://www.cpc.ncep.noaa.gov/products/predictions/30-day/}$

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.

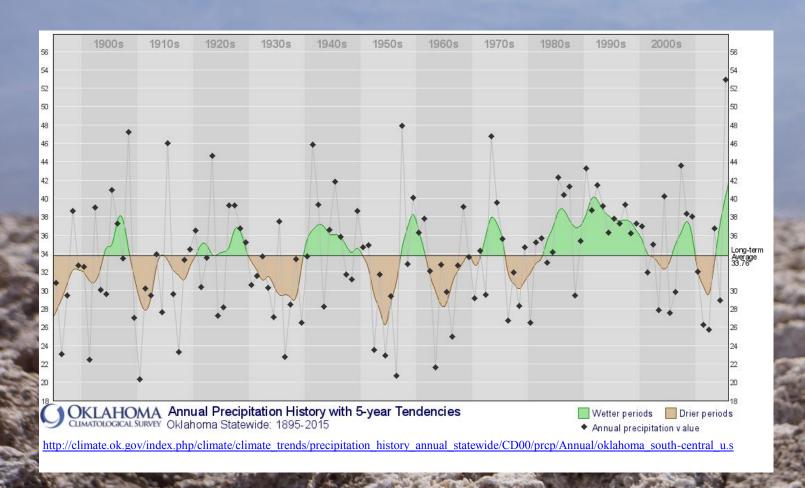


Statewide Precipitation Monthly Totals vs. Normal





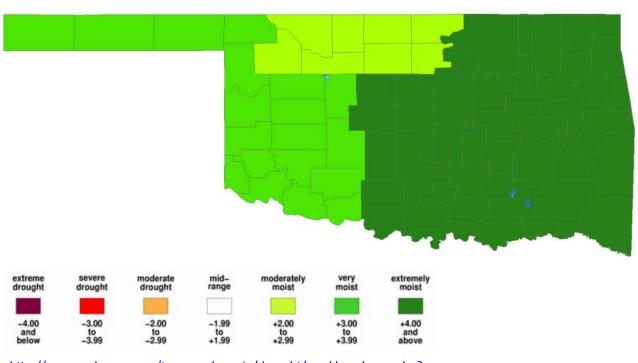
Annual Precipitation Historywith 5-Year Tendencies



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 JAN 23 2016



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.



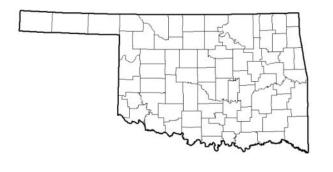
U.S. Drought Monitor

Regional Map Week of 26 JAN 2016

Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current <u>2016-01-26</u>	100.00	0.00	0.00	0.00	0.00	0.00
Last Week <u>2016-01-19</u>	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago <u>2015-10-27</u>	33.36	66.64	17.68	2.79	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>2015-01-27</u>	5.03	94.97	60.60	45.34	22.58	5.69

U.S. Drought Monitor Oklahoma

Estimated Population in Drought Areas: 0

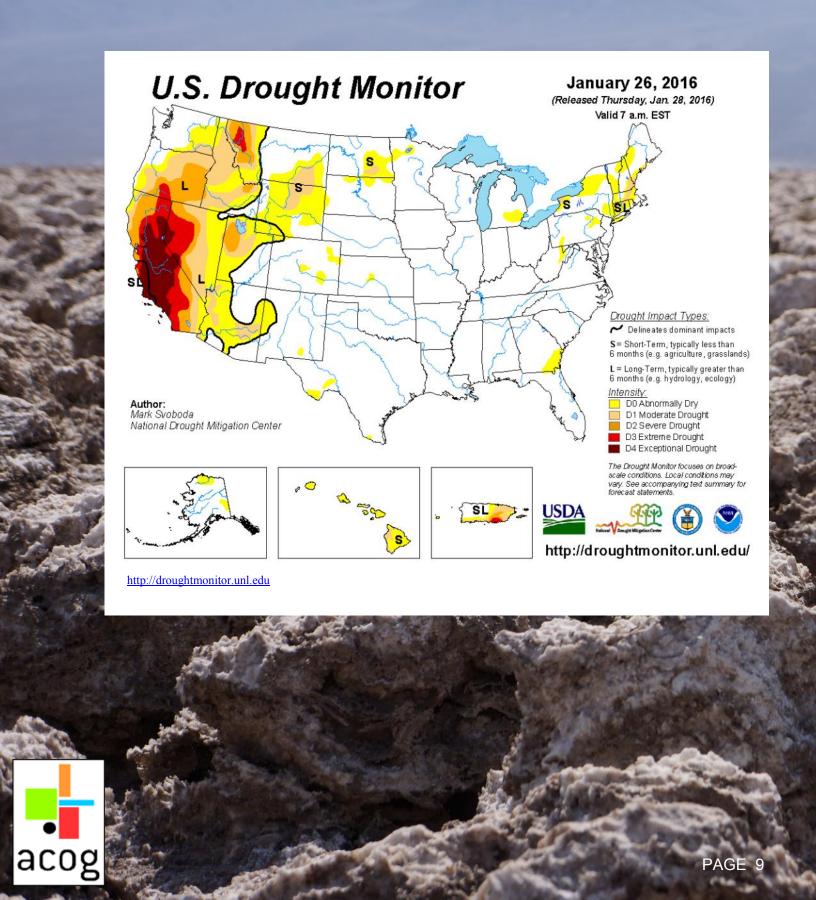


<u>http://droughtmonitor.unl.edu/Home/StateDroughtMonitor.aspx?OK</u>



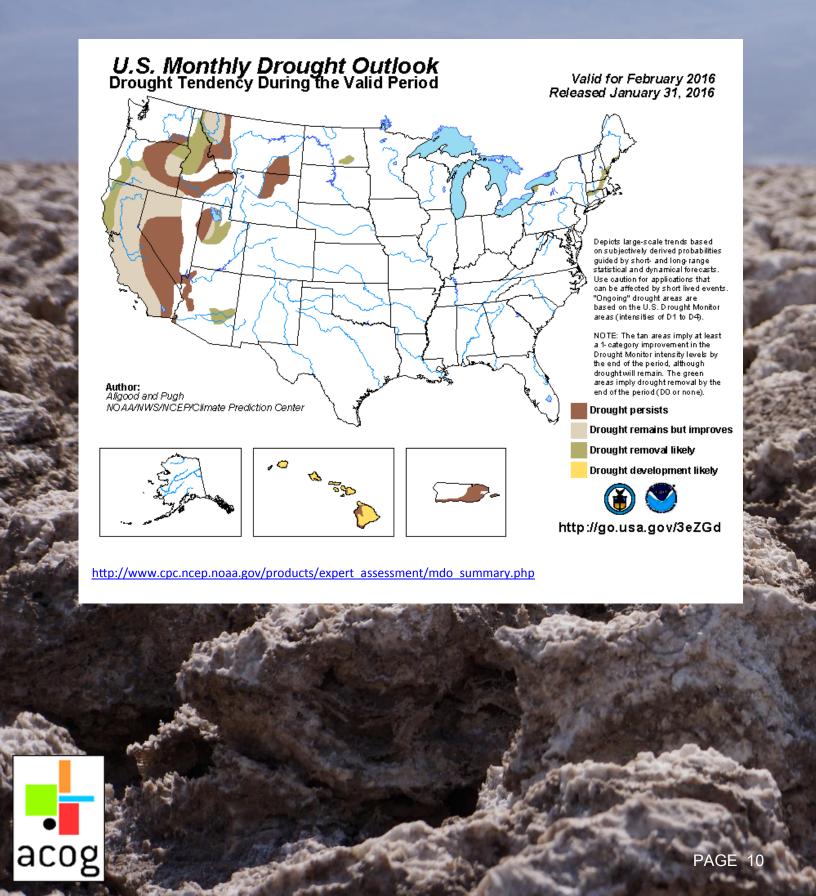


U.S. Drought Monitor Nationwide Map



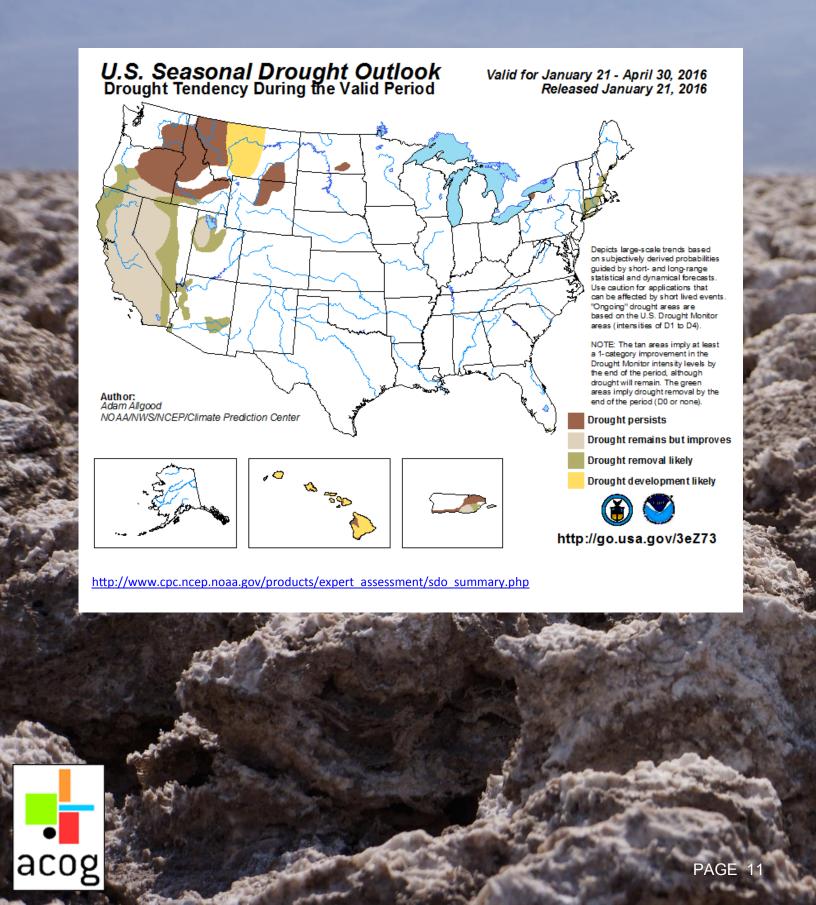
U.S. Drought Monitor

Monthly Drought Outlook Map

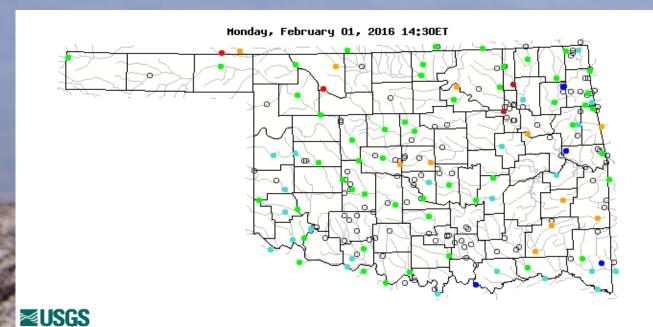


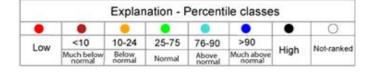
U.S. Drought Monitor

Seasonal Drought Outlook Map

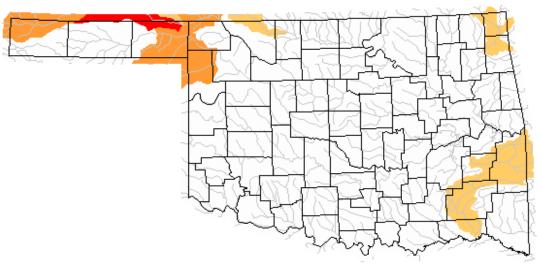


USGS Streamflow Data





Sunday, January 31, 2016





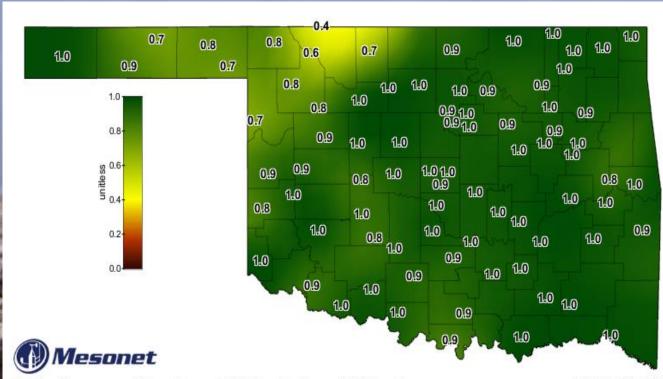
Explanation - Percentile classes						
Low	<=5	6-9	10-24	Insufficient data		
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	for a hydrolog is region		

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

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

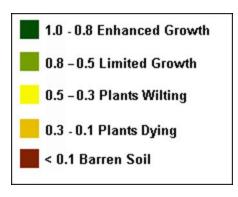


SOIL MOISTURE MAP



Daily Averaged Fractional Water Index at 24 inches

January 31, 2016

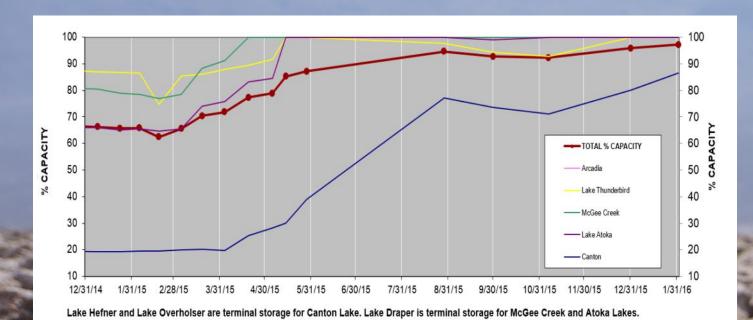


http://www.mesonet.org/index.php/weather/map/24-inch fractional water index/soil moisture



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Percent of Surface Water Conservation Storage Central OK Reservoirs



		% CHANGE FROM
LAKE	% CAPACITY	12/31/2015
Canton	86.4	6.4
Arcadia	100.0	0.0
Lake Thunderbird	100.0	0.0
McGee Creek	100.0	0.0
Lake Atoka	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

TOTAL % CAPACITY

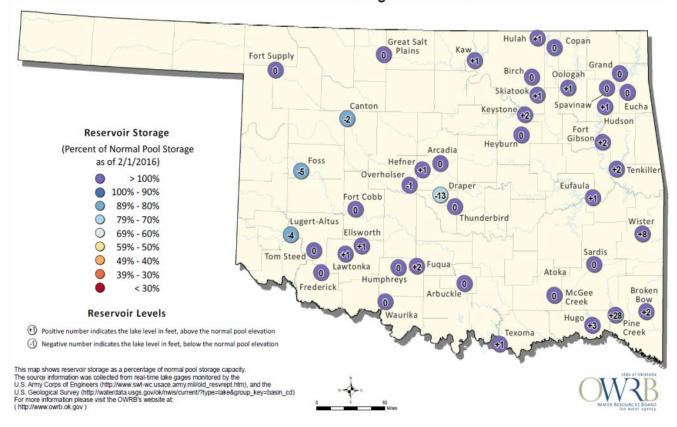
The graph is the amount of water stored in five major lakes that supply water to central Oklahoma as a percent of capacity over the past year.

97.1

1.4

Oklahoma Surface Water Resources

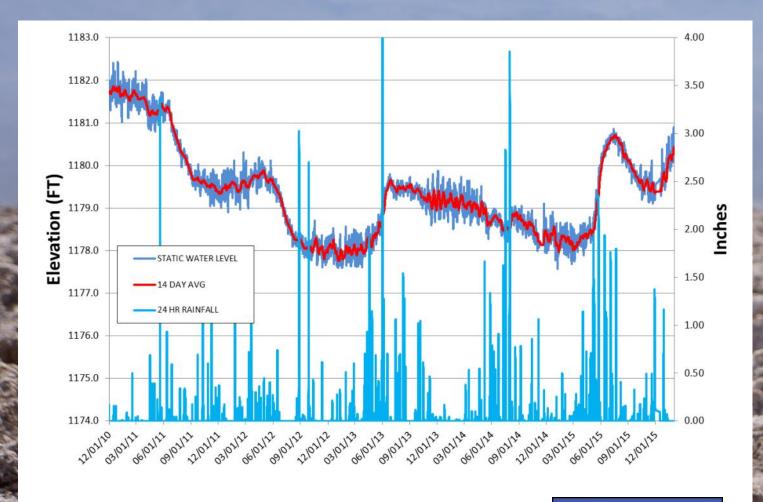
Reservoir Levels and Storage as of 2/1/2016



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



Groundwater Levels Spencer Mesonet Station

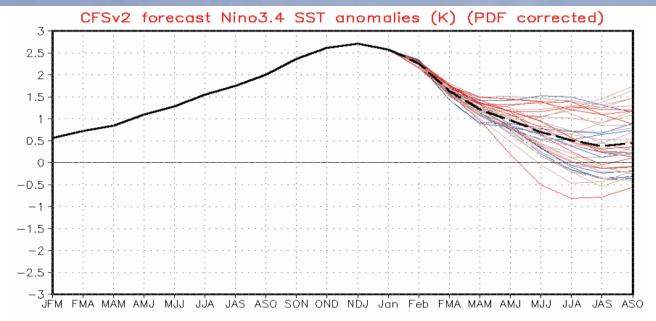


 $\underline{http://www.mesonet.org/index.php/weather/groundwater}$

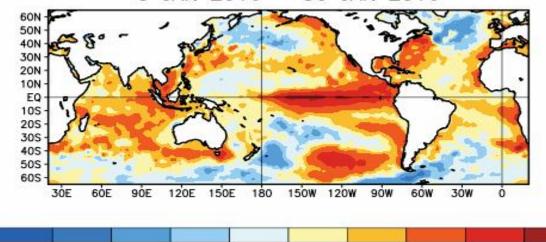




ENSO Cycle Recent Evolution, Current Status and Predictions



Average SST Anomalies 3 JAN 2016 - 30 JAN 2016



-0.5



Summary

0.5

2

ENSO Alert System Status: El Niño Advisory

- El Niño conditions are present.
- Positive equatorial sea surface temperature (SST) anomalies continue across most of the Pacific Ocean.
- A strong El Niño is expected to gradually weaken through spring 2016, and to transition to ENSO-neutral during late spring or early summer 2016.

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