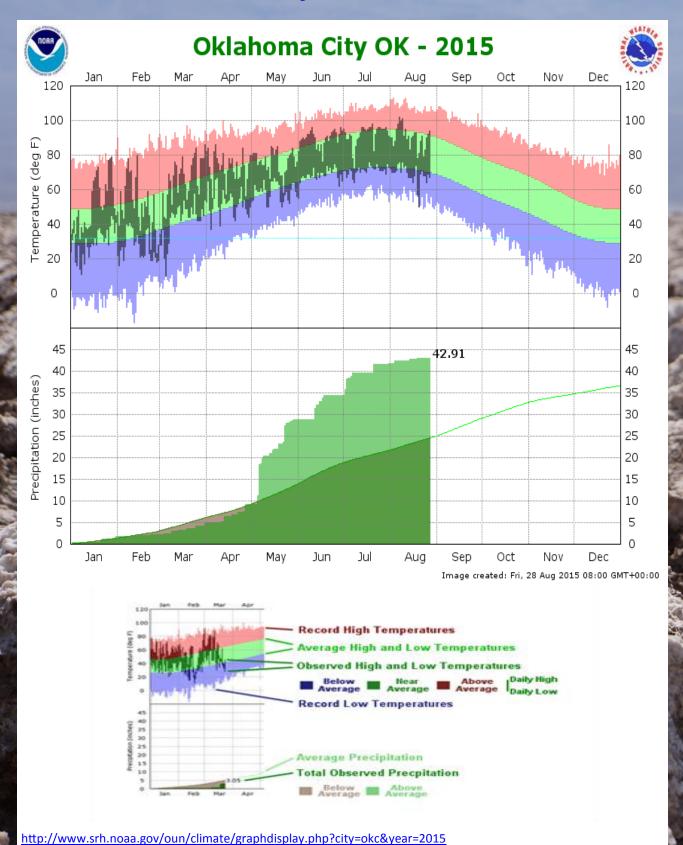




Temperature and Precipitation Plot for Oklahoma City, Oklahoma for 2015



acog



Rainfall Summaries by Oklahoma Climate Division

Calendar Year 01-Jan-2015 though 27-Aug-2015

Climate Divi- sion	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Rec- ord	Wettest on Record
W. Central	31.80"	+12.12"	162%	2nd wettest	7.15" (2011)	32.16" (2007)
Central	37.70"	+12.42"	149%	2nd wettest	8.50" (1936)	44.34" (2007)
S. Central	49.38"	+22.74"	185%	1st wettest	11.93" (2011)	44.01" (1990)
Statewide	37.35"	+12.89"	153%	1st wettest	9.82" (1936)	35.68" (1957)

Water Year: 01-Oct-2014 through 27-Aug-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	36.34"	+11.12"	144%	3rd wettest	11.69" (2010-11)	38.35" (2006-07)
Central	44.34"	+10.95"	133%	4th wettest	15.84" (1935-36)	51.34" (2006-07)
S. Central	58.26"	+21.93"	160%	1st wettest	15.22" (1955-56)	54.12" (1944-45)
Statewide	44.31"	+11.77"	136%	2nd wettest	17.67" (1955-56)	44.42" (2006-07)

Summer 01-Jun-2015 through

27-Aug-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	10.80"	+1.93"	122%	23rd wettest	2.49" (1980)	15.95" (1995)
Central	13.13"	+2.66"	125%	20th wettest	2.06" (1936)	23.97" (2007)
S. Central	17.37"	+7.60"	178%	4th wettest	1.68" (2011)	18.99" (1945)
Statewide	13.20"	+3.23"	132%	11th wettest	2.84" (1936)	17.64" (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.

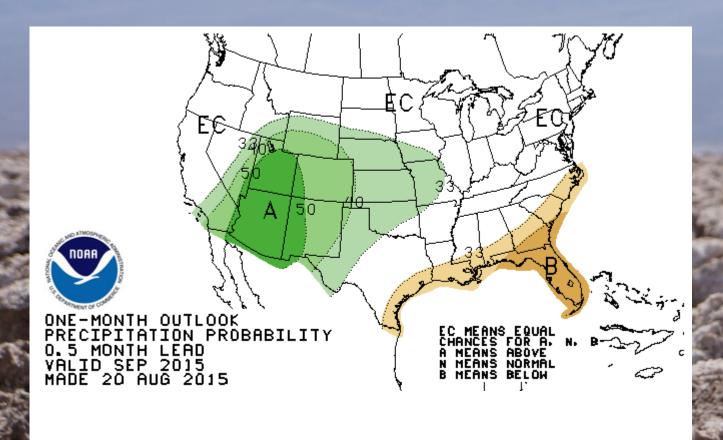


http://climate.ok.gov/index.php/drought/last 30 days/





NOAA One-Month Outlook

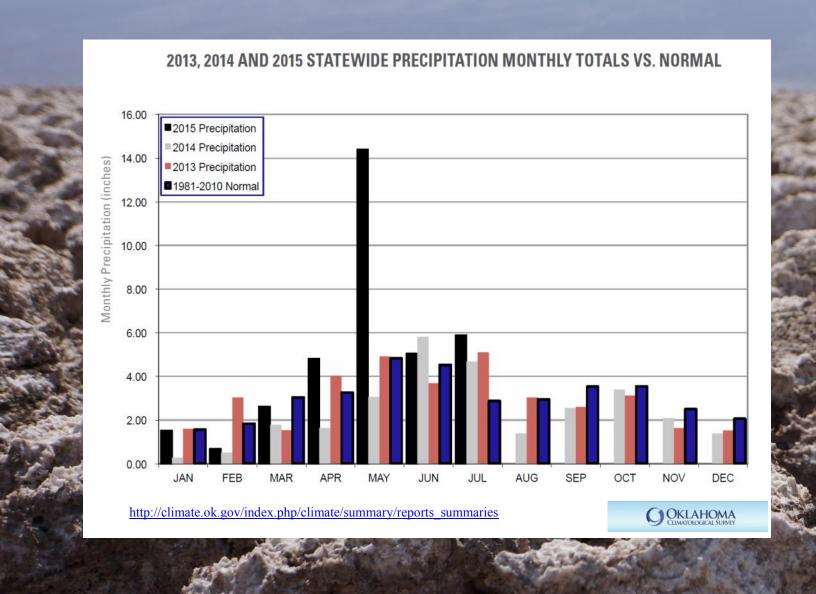


http://www.cpc.ncep.noaa.gov/products/predictions/30-day/

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.

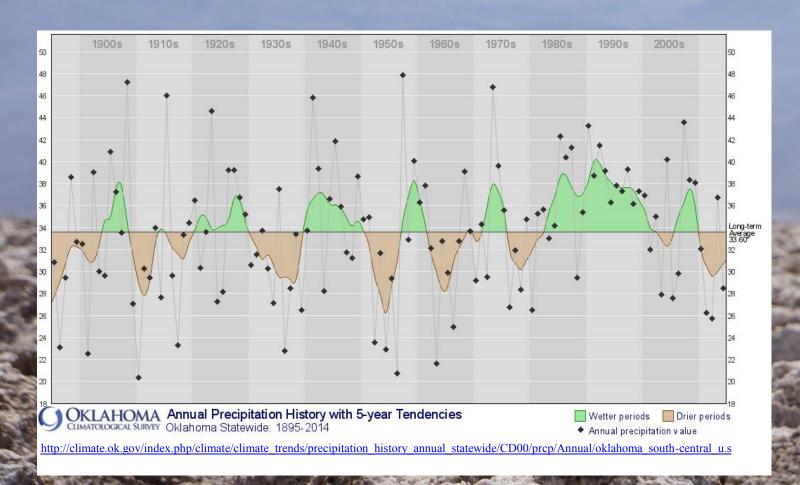


Statewide Precipitation Monthly Totals vs. Normal





Annual Precipitation Historywith 5-Year Tendencies

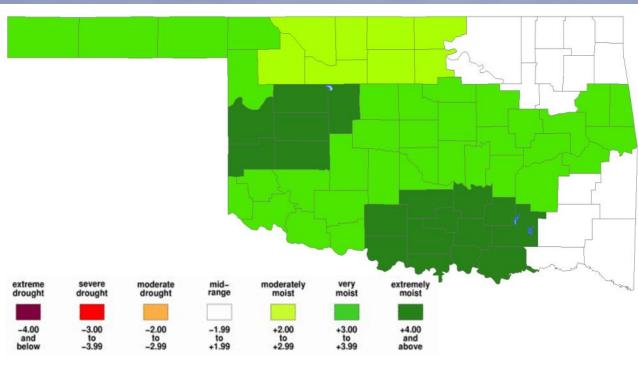


This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years. This smoothed line shows well the wet periods (shaded green) and the drought 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 AUG 22 2015



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.



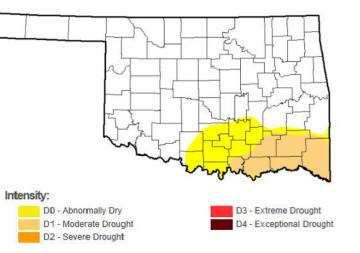
U.S. Drought Monitor

Regional Map Week of 25 AUG 2015

Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current <u>2015-08-25</u>	81.86	18.14	8.85	0.00	0.00	0.00
Last Week 2015-08-18	69.16	30.84	9.29	1.38	0.00	0.00
3 Months Ago <u>2015-05-26</u>	77.31	22.69	2.74	0.00	0.00	0.00
Start of Calendar Year 2014-12-30	25.63	74.37	62.03	40.84	21.74	5.70
Start of Water Year 2014-09-30	8.55	91.45	73.31	58.13	20.92	4.64
One Year Ago <u>2014-08-26</u>	19.52	80.48	71.14	48.51	15.75	2.25

U.S. Drought Monitor Oklahoma

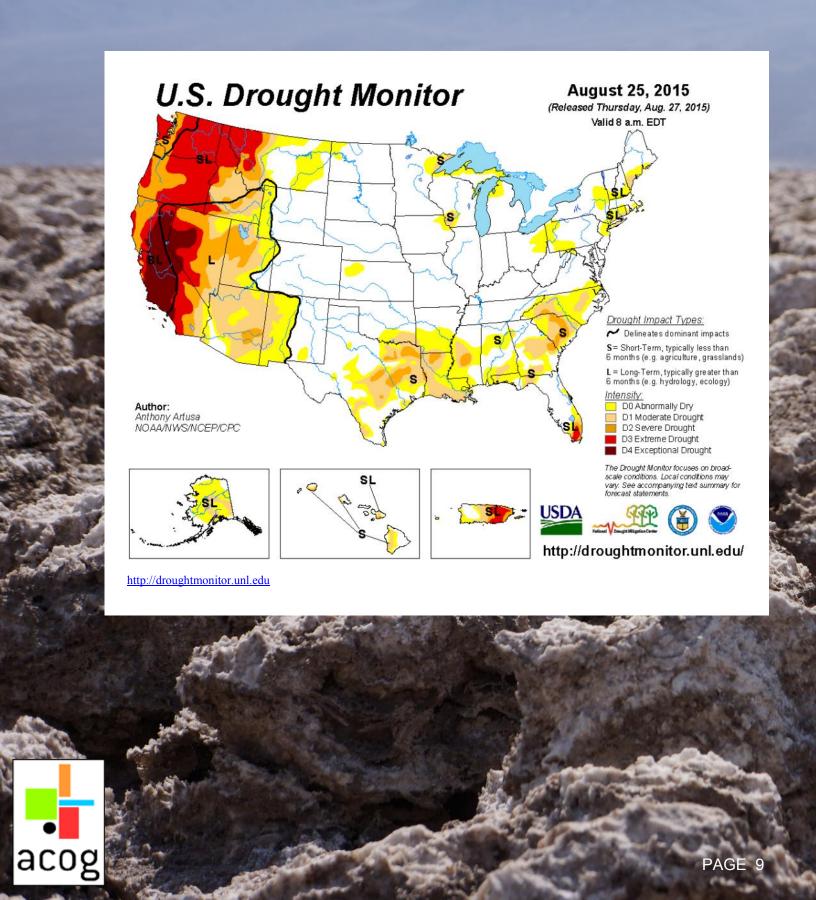
Population Affected by Drought: 127,404



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

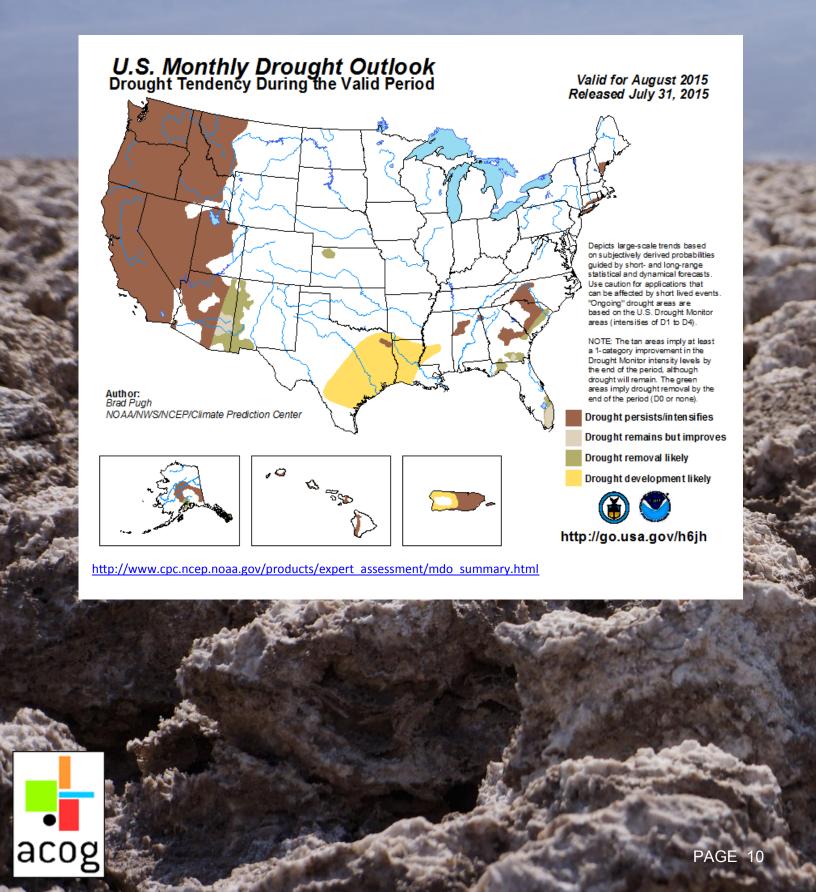


U.S. Drought Monitor Nationwide Map



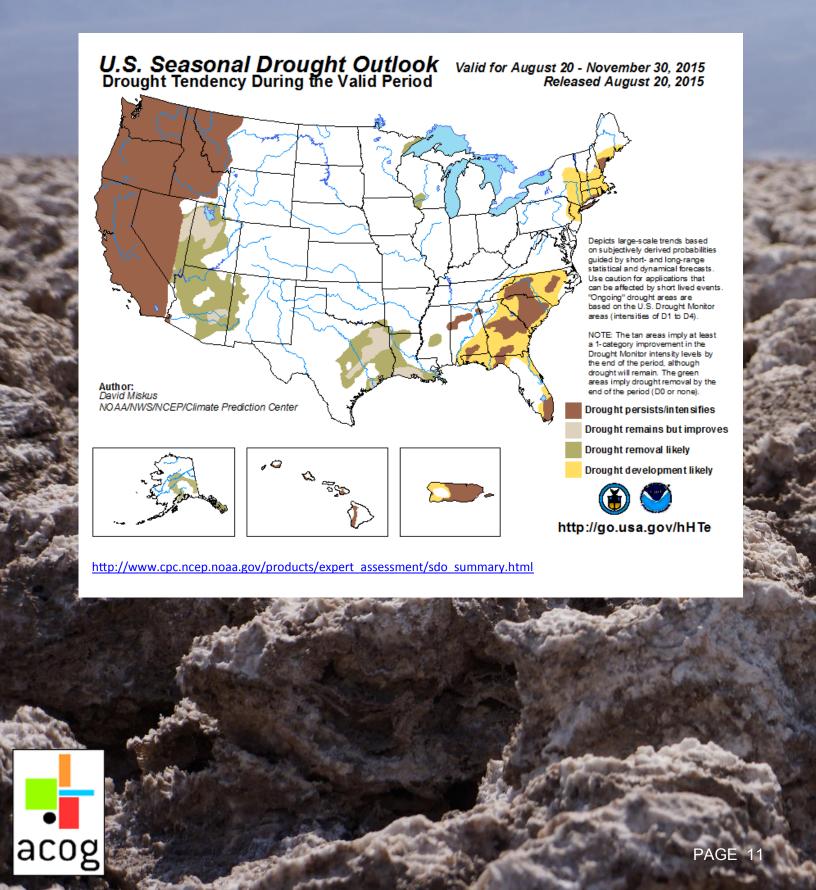
U.S. Drought Monitor

Monthly Drought Outlook Map

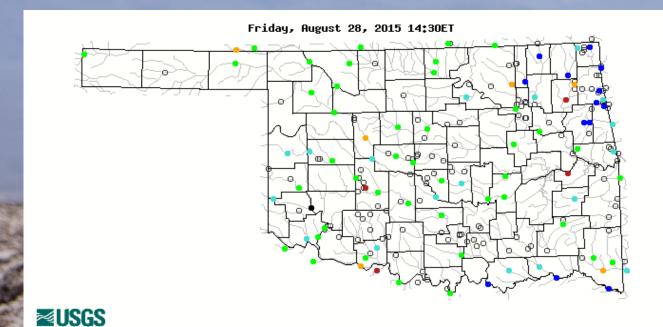


U.S. Drought Monitor

Seasonal Drought Outlook Map



USGS Streamflow Data

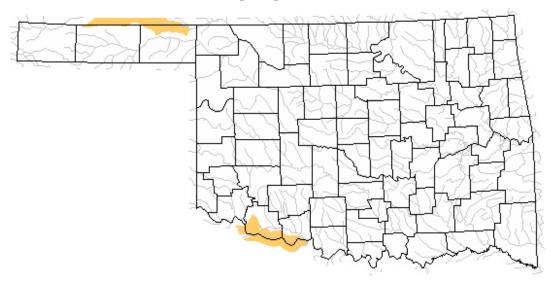


Explanation - Percentile classes

Output

Low | Column |

Thursday, August 27, 2015





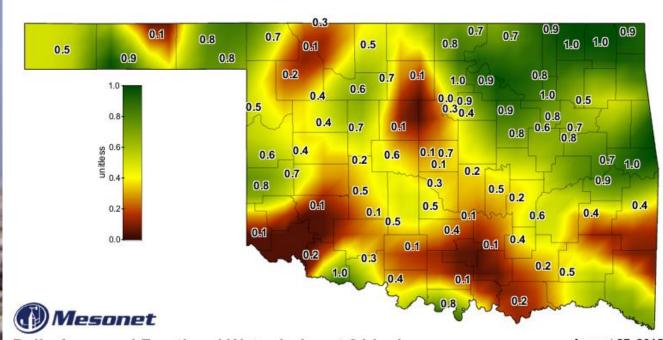
Explanation - Percentile classes							
Low	<=5	6-9	10-24	Insufficient data			
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	for a hydrolog is region			

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

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

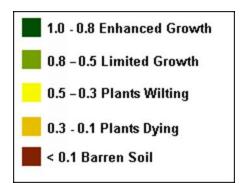


SOIL MOISTURE MAP



Daily Averaged Fractional Water Index at 24 inches

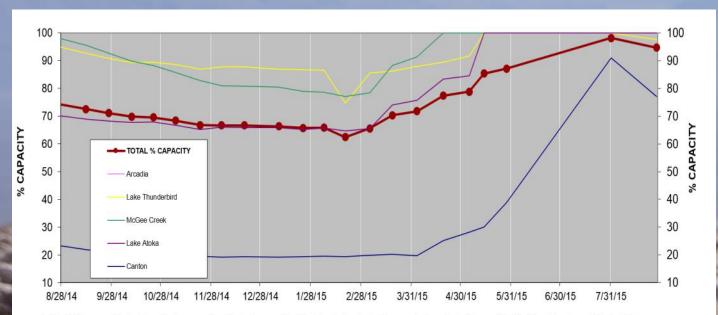
August 27, 2015
extent 7:30:12 AM August 28, 2015 CDT @ Convenint 2015



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



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	8/28/2015
Canton	77.1	-13.9
Arcadia	99.6	-0.5
Lake Thunderbird	97.7	-2.3
McGee Creek	100.0	0.0
Lake Atoka	100.0	0.0
TOTAL % CAPACITY	94.6	-3.5

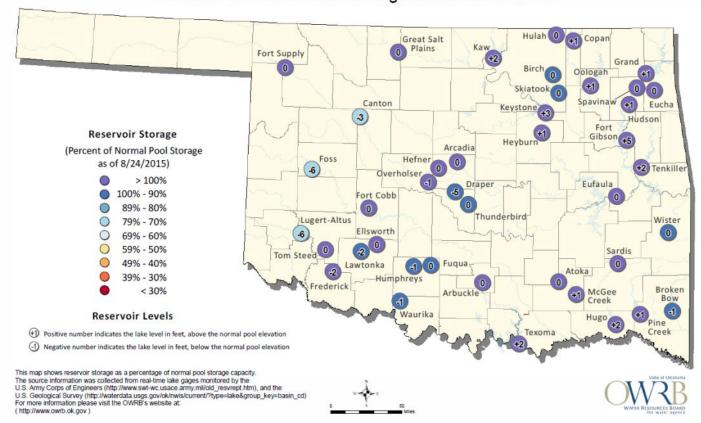
http://www.swt-wc.usace.army.mil/old_resvrept.htm http://waterdata.usgs.gov/ok/nwis/dv/?site_no=07333010&agency_cd=USGS&referred_module=sw

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

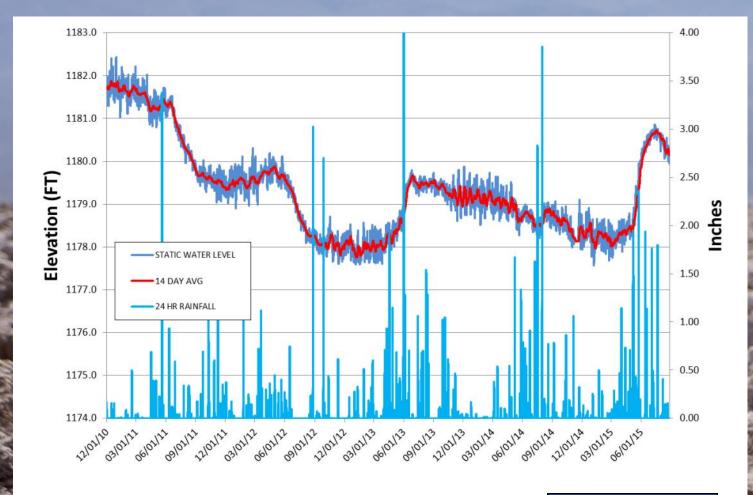
Reservoir Levels and Storage as of 8/24/2015



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



Groundwater Levels Spencer Mesonet Station

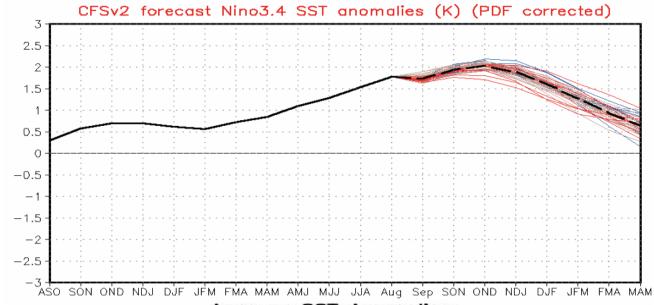


 $\underline{http://www.mesonet.org/index.php/weather/groundwater}$

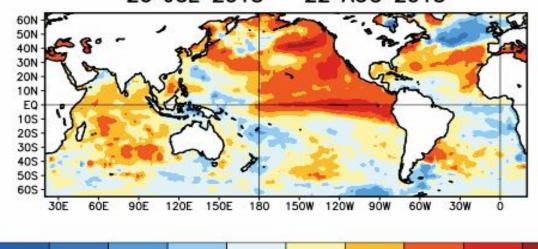




ENSO Cycle Recent Evolution, Current Status and Predictions



Average SST Anomalies 26 JUL 2015 - 22 AUG 2015



-0.5



Summary

0.5

2

ENSO Alert System Status: El Niño Advisory

El Niño conditions are present.

-2

- Positive equatorial sea surface temperature (SST) anomalies continue across most of the Pacific Ocean.
- There is a greater than 90% chance that El Niño will continue through Northern Hemisphere winter 2015-16, and around an 80% chance it will last through early spring 2016.

