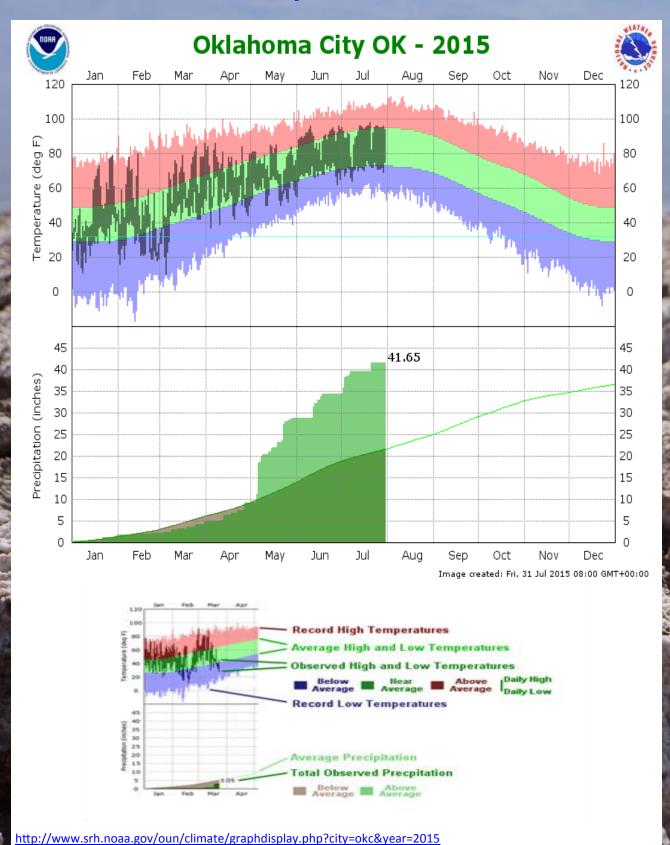




Temperature and Precipitation Plot for Oklahoma City, Oklahoma for 2015



acog

Rainfall Summaries by Oklahoma Climate Division

Calendar Year 01-Jan-2015 though

30-Jul-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	29.39"	+12.41"	173%	1st wettest	5.13" (2011)	27.33" (2007)
Central	35.43"	+12.94"	158%	2nd wettest	8.49" (1936)	39.18" (2007)
S. Central	48.87"	+24.51"	201%	1st wettest	10.84" (2011)	41.59" (1990)
Statewide	34.90"	+13.10"	160%	1st wettest	9.66" (1936)	33.96" (1957)

Water Year: 01-Oct-2014 through 30-Jul-2015

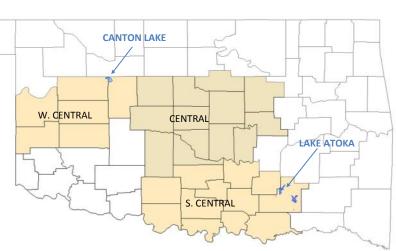
Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	33.92"	+11.40"	151%	1st wettest	9.67" (2010-11)	33.52" (2006-07)
Central	42.08"	+11.48"	138%	4th wettest	15.82" (1935-36)	46.19" (2006-07)
S. Central	57.75"	+23.70"	170%	1st wettest	14.69" (1955-56)	50.43" (1944-45)
Statewide	41.85"	+11.97"	140%	1st wettest	16.68" (1955-56)	40.90" (2006-07)

Summer 01-Jun-2015 through

30-Jul-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	8.39"	+2.22"	136%	16th wettest	1.48" (2011)	11.36" (1962)
Central	10.87"	+3.19"	141%	14th wettest	1.88" (1954)	18.81" (2007)
S. Central	16.86"	+9.37"	225%	1st wettest	0.59" (2011)	15.31" (1945)
Statewide	10.75"	+3.44"	147%	7th wettest	1.93" (2011)	14.13" (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.

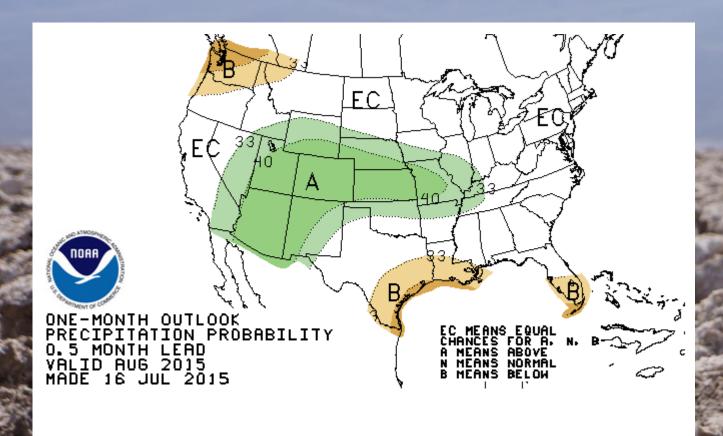


http://climate.ok.gov/index.php/drought/last_30_days/





NOAA One-Month Outlook

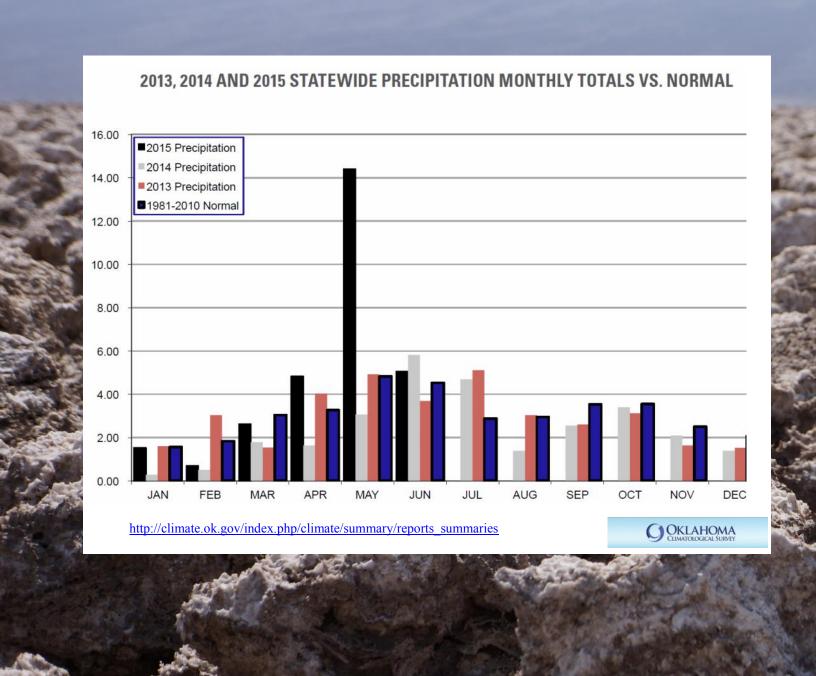


http://www.cpc.ncep.noaa.gov/products/predictions/30-day/

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.

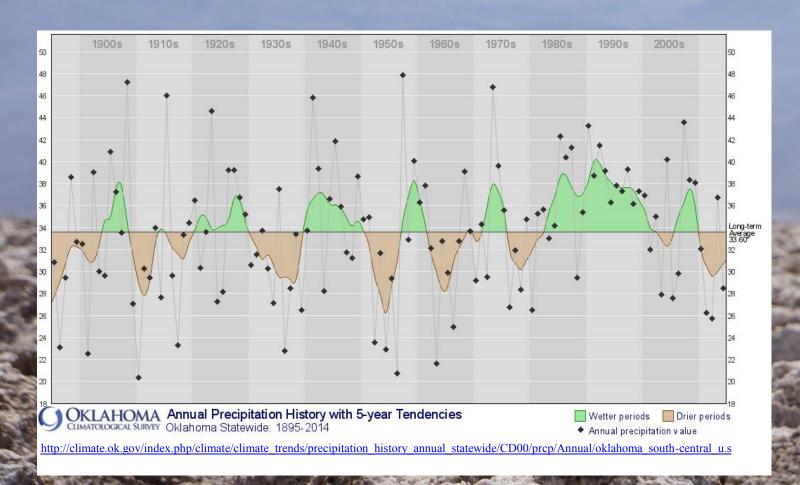


Statewide Precipitation Monthly Totals vs. Normal





Annual Precipitation Historywith 5-Year Tendencies

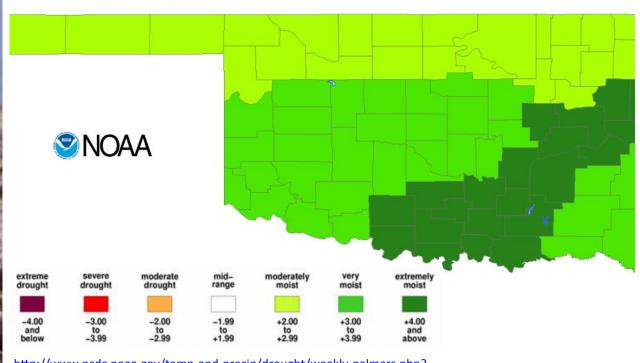


This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years. This smoothed line shows well the wet periods (shaded green) and the drought 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 JUL 25 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.



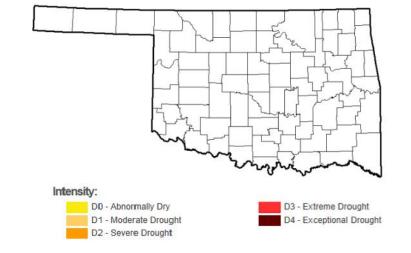
U.S. Drought Monitor

Regional Map Week of 28 JUL 2015

Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current <u>2015-07-28</u>	100.00	0.00	0.00	0.00	0.00	0.00
Last Week 2015-07-21	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago <u>2015-04-28</u>	30.08	69.92	59.29	47.51	24.34	4.13
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>2014-07-29</u>	12.06	87.94	76.16	60.09	23.36	4.48

U.S. Drought Monitor Oklahoma

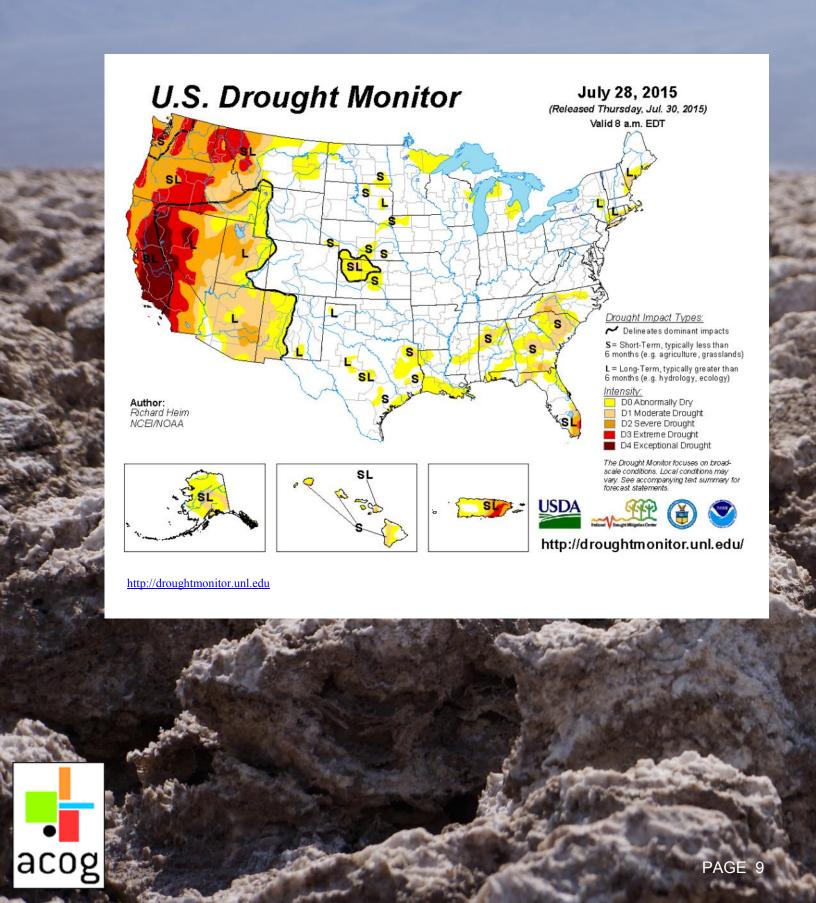
Population Affected by Drought: 0



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

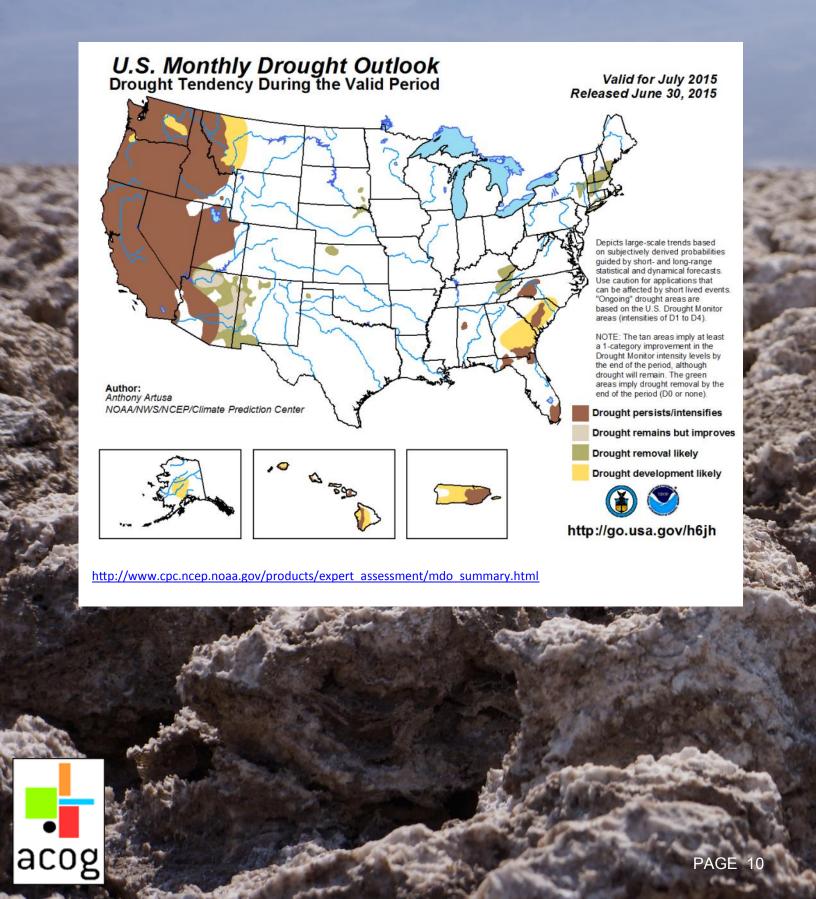


U.S. Drought Monitor Nationwide Map



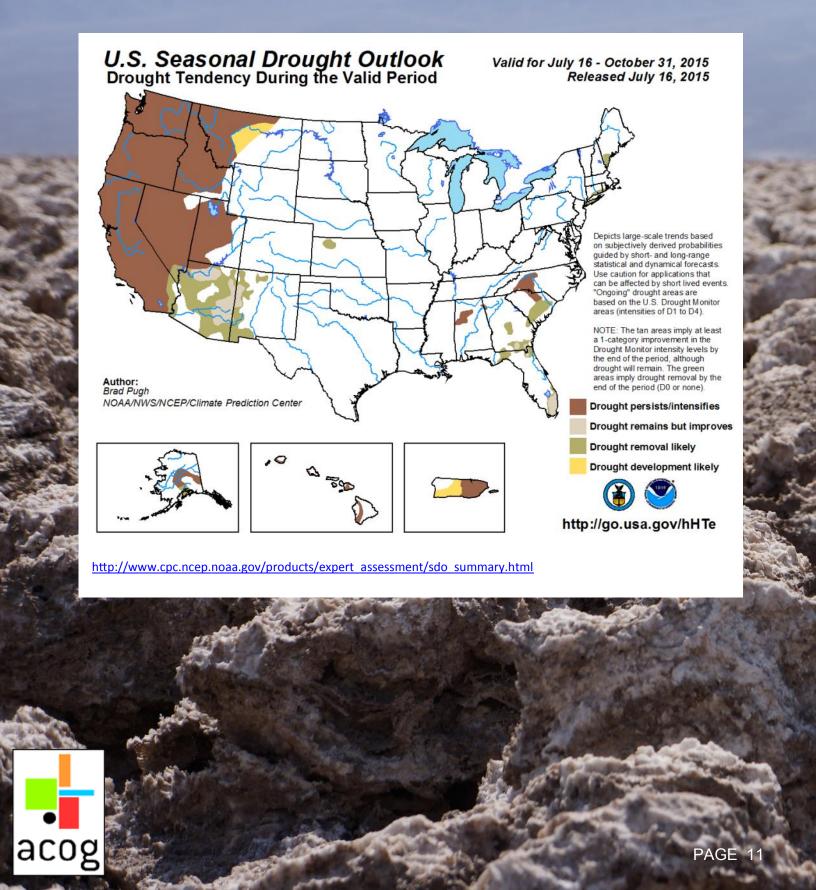
U.S. Drought Monitor

Monthly Drought Outlook Map

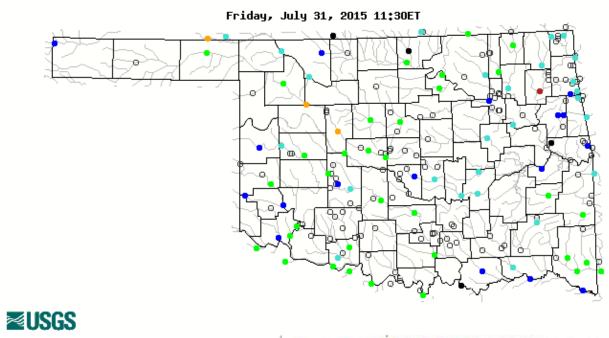


U.S. Drought Monitor

Seasonal Drought Outlook Map



USGS Streamflow Data



•					•	•	0
Low	<10	10-24	25-75	76-90	>90		Makasakad
LOW	Much below normal	Below normal	Normal	Above normal	Much above normal	High	Not-ranked

Thursday, July 30, 2015





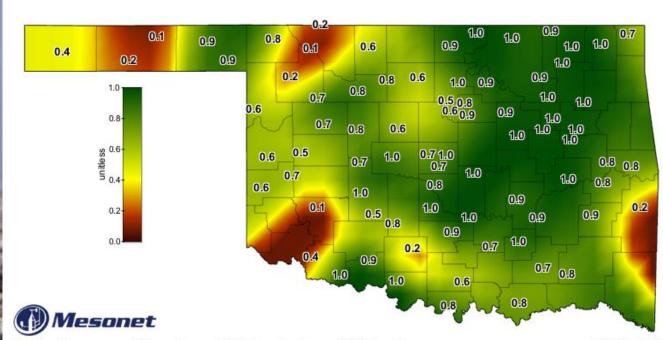
Explanation - Percentile classes							
Low	<=5	6-9	10-24	Insufficient data			
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	for a hydrolog is region			

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

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

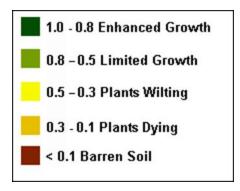


SOIL MOISTURE MAP



Daily Averaged Fractional Water Index at 24 inches

July 30, 2015

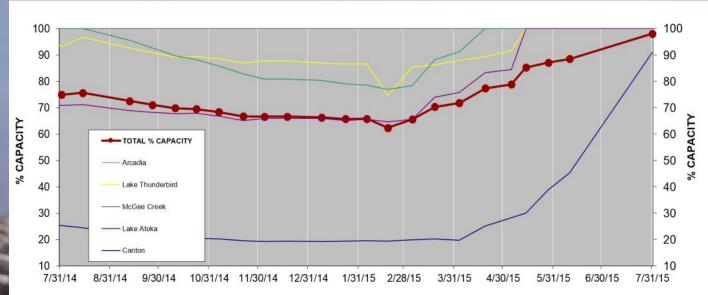


http://www.mesonet.org/index.php/weather/map/24-inch fractional water index/soil moisture



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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

		% CHANGE FROM
LAKE	% CAPACITY	6/11/2015
Canton	91.0	52.2
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	98.1	9.6

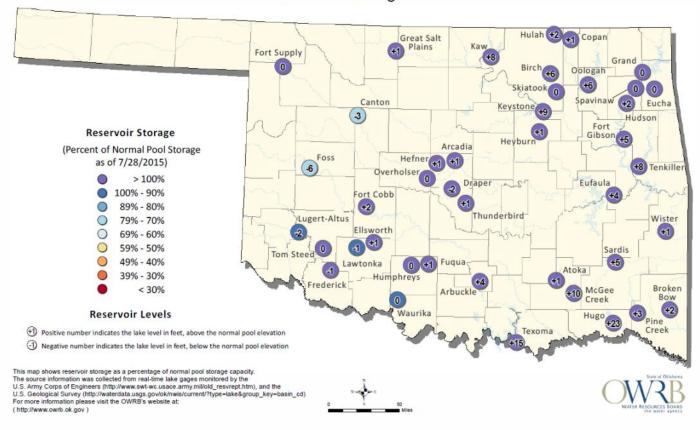
http://www.swt-wc.usace.army.mil/old_resvrept.htm http://waterdata.usgs.gov/ok/nwis/dv/?site_no=07333010&agency_cd=USGS&referred_module=sw

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

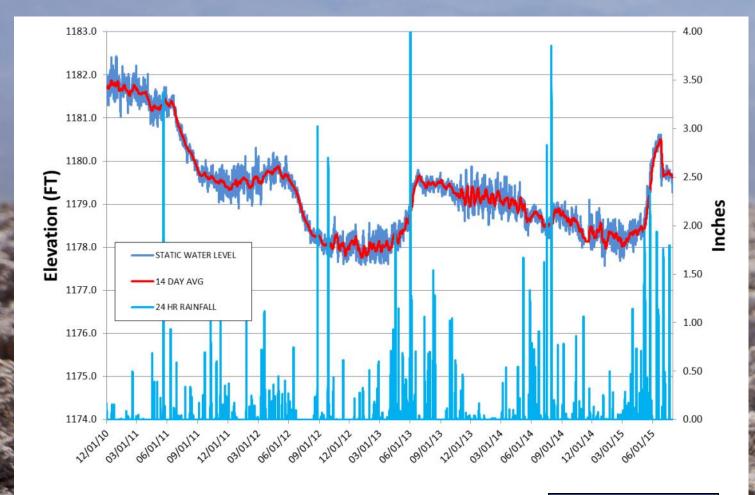
Reservoir Levels and Storage as of 7/28/2015



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



Groundwater Levels Spencer Mesonet Station

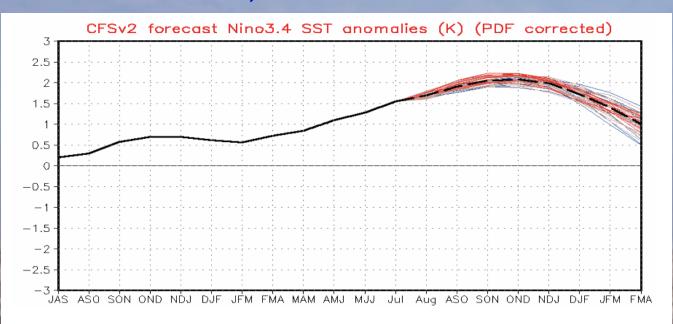


 $\underline{http://www.mesonet.org/index.php/weather/groundwater}$

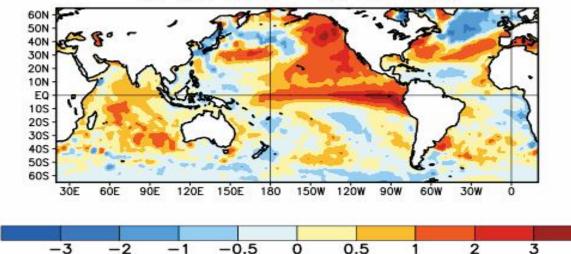




ENSO Cycle Recent Evolution, Current Status and Predictions



Average SST Anomalies 28 JUN 2015 - 25 JUL 2015





Summary

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.
- 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.

