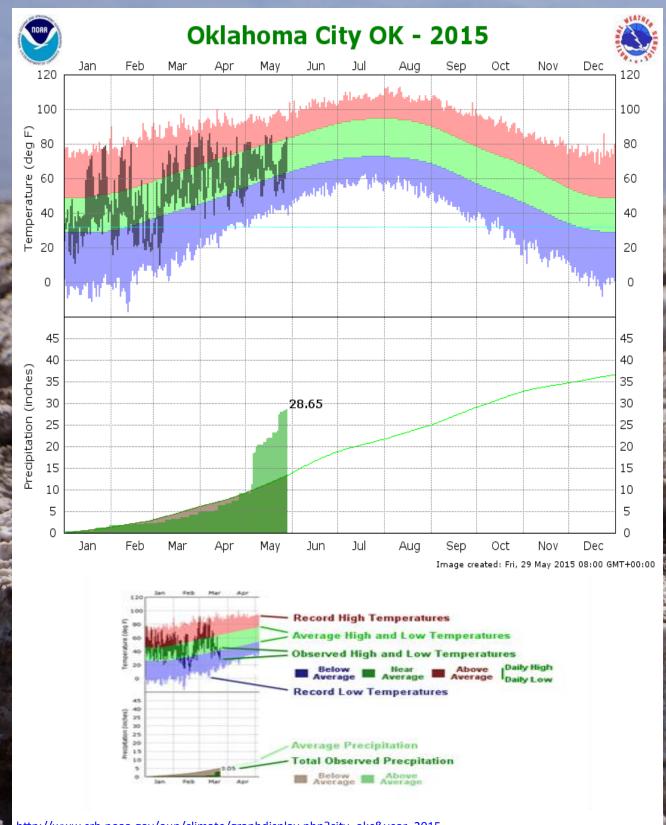




Temperature and Precipitation Plot for Oklahoma City, Oklahoma for 2015





http://www.srh.noaa.gov/oun/climate/graphdisplay.php?city=okc&year=2015

Rainfall Summaries by Oklahoma Climate Division

Calendar Year 01-Jan-2015 though

28-May-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	21.00"	+10.67"	203%	1st wettest	2.47" (1996)	20.05" (1957)
Central	24.39"	+10.11"	171%	2nd wettest	5.39" (2014)	26.39" (1990)
S. Central	31.07"	+14.75"	190%	2nd wettest	7.57" (1963)	34.88" (1990)
Statewide	23.58"	+9.59"	169%	3rd wettest	6.66" (1936)	24.70" (1957)

Water Year: 01-Oct-2014 through 28-May-2015

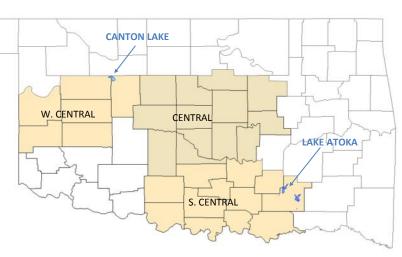
Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	25.53"	+9.66"	161%	1st wettest	4.72" (1995-96)	25.12" (1986-87)
Central	31.04"	+8.65"	139%	4th wettest	10.22" (1995-96)	36.00" (1984-85)
S. Central	39.95"	+13.94"	154%	1st wettest	11.52" (1955-56)	39.90" (1981-82)
Statewide	30.54"	+8.47"	138%	3rd wettest	10.92" (1995-96)	31.17" (1984-85)

Spring 01-Mar-2015 through

28-May-2015

Clin	nate Divi- sion	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W	. Central	19.51"	+11.25"	236%	1st wettest	1.38" (1971)	18.16" (1957)
(Central	22.50"	+11.45"	204%	1st wettest	3.36" (2005)	21.23" (1957)
S.	Central	27.74"	+15.76"	232%	1st wettest	3.98" (2005)	26.47" (1957)
St	atewide	21.36"	+10.76"	201%	2nd wettest	4.77" (2005)	21.49" (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.

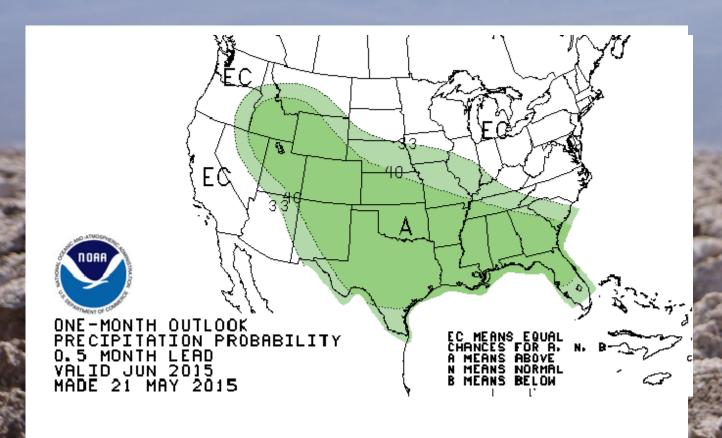


http://climate.ok.gov/index.php/drought/last_30_days/





NOAA One-Month Outlook

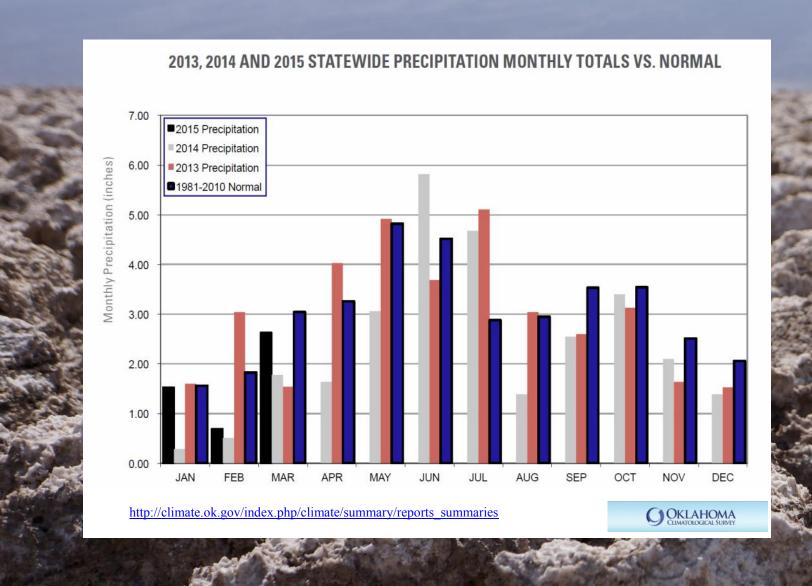


http://www.cpc.ncep.noaa.gov/products/predictions/30-day/

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.

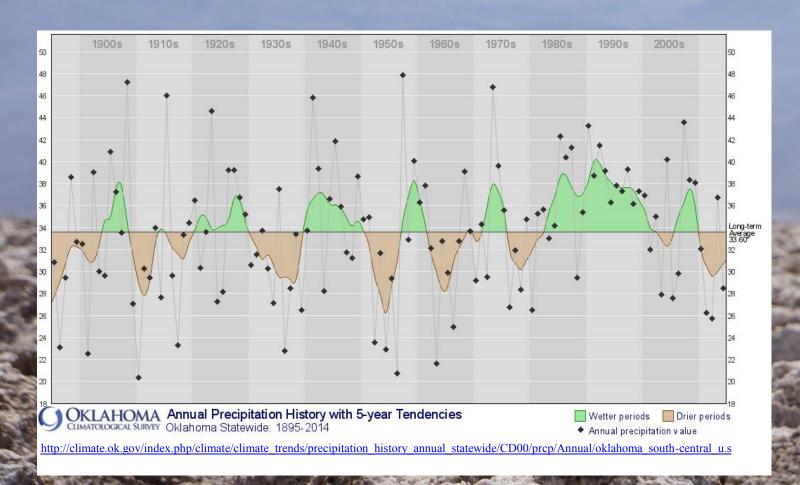


Statewide Precipitation Monthly Totals vs. Normal





Annual Precipitation Historywith 5-Year Tendencies

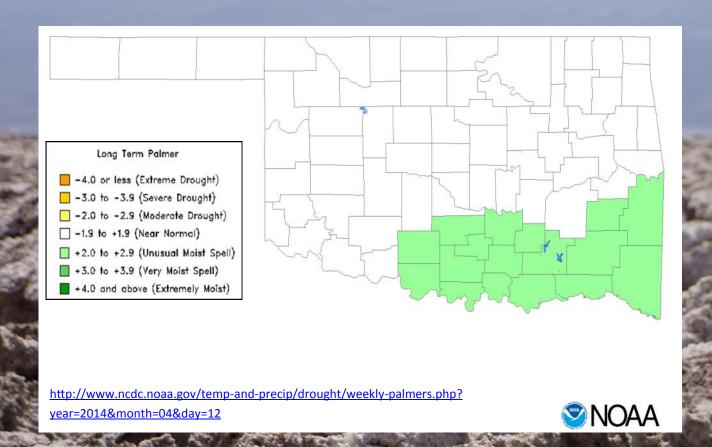


This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years. This smoothed line shows well the wet periods (shaded green) and the drought 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 MAY 29 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 26 MAY 2015

Drought Condition (Percent Area):

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	<u>2015-05-</u> <u>26</u>	77.31	22.69	2.74	0.00	0.00	0.00
Last Week	<u>2015-05-</u> <u>19</u>	49.19	50.81	41.94	8.98	0.00	0.00
3 Months Ago	<u>2015-02-</u> <u>24</u>	1.48	98.52	65.55	48.46	27.80	5.75
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>2014-05-</u> <u>27</u>	5.78	94.22	79.94	73.26	55.04	26.47

U.S. Drought Monitor

Oklahoma

Population Affected by Drought: 6,228

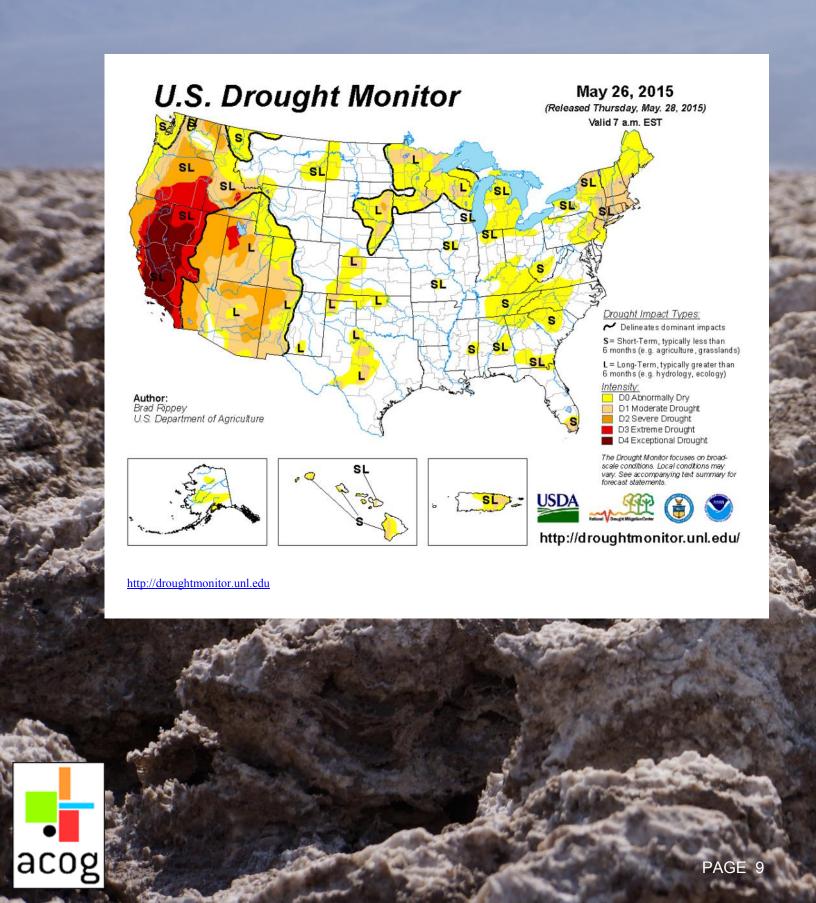
<u>http://droughtmonitor.unl.edu/Home/StateDroughtMonitor.aspx?OK</u>



D2 - Severe Drought

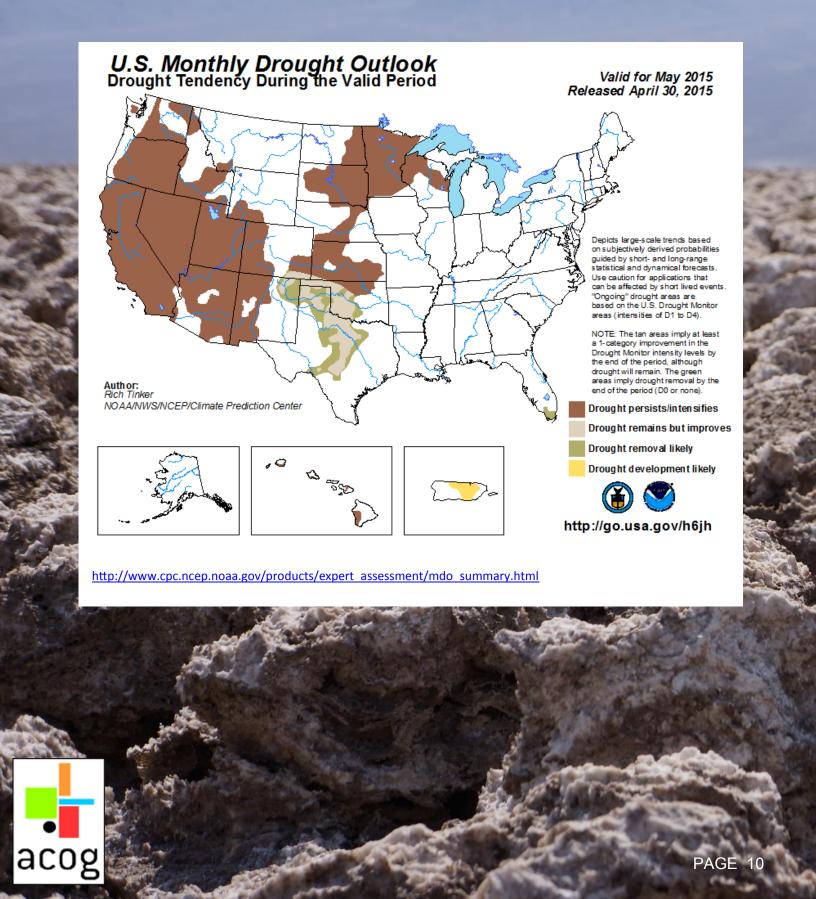


U.S. Drought Monitor Nationwide Map



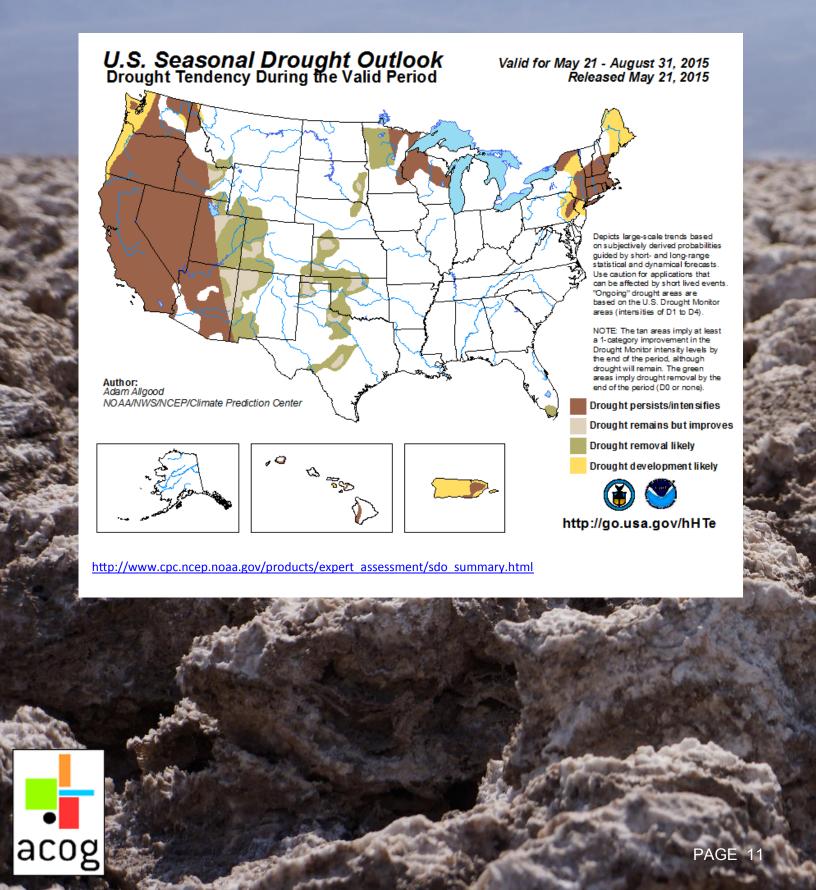
U.S. Drought Monitor

Monthly Drought Outlook Map

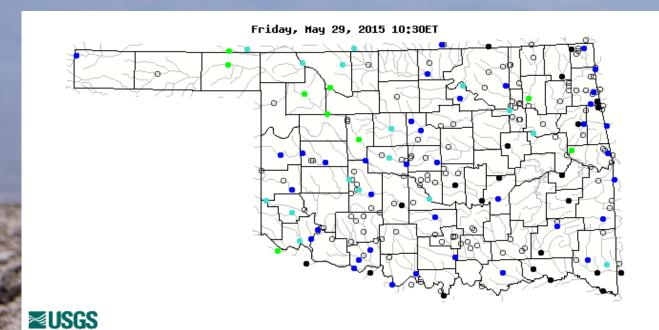


U.S. Drought Monitor

Seasonal Drought Outlook Map



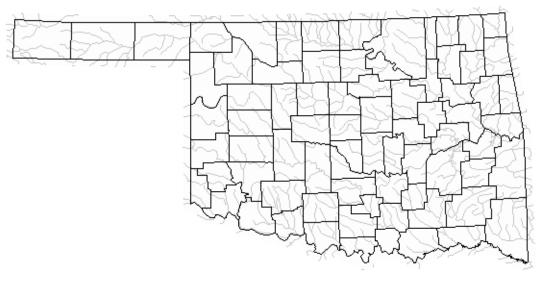
USGS Streamflow Data



Thursday, May 28, 2015

<10

10-24





	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

Explanation - Percentile classes

Normal

76-90

>90

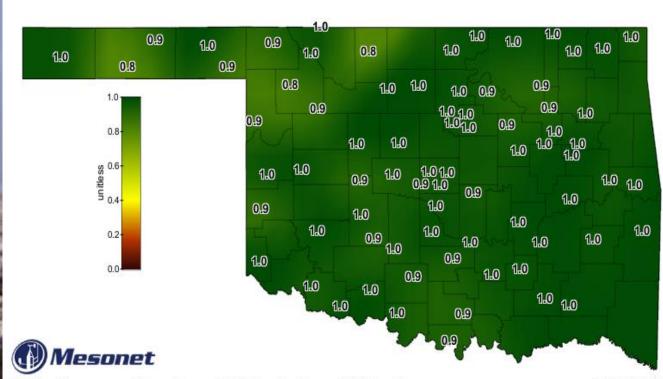
Not-ranked

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

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

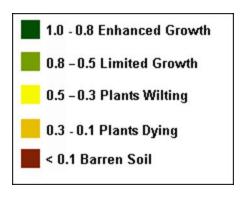


SOIL MOISTURE MAP



Daily Averaged Fractional Water Index at 24 inches

May 28, 2015 Created 7:30:14 AM May 29, 2015 CDT. © Copyright 2015

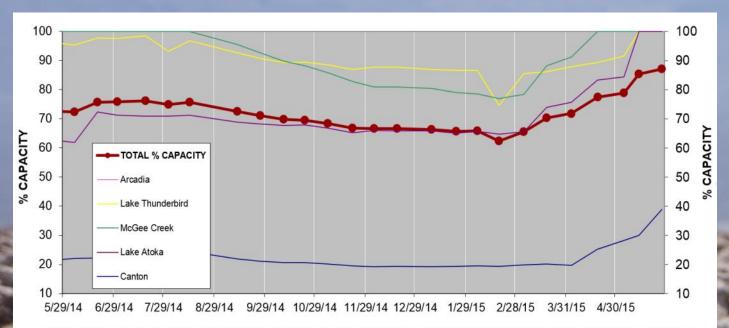


http://www.mesonet.org/index.php/weather/map/24-inch fractional water index/soil moisture



PAGE 13

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

		% CHANGE FROM
LAKE	% CAPACITY	5/14/2015
Canton	38.8	8.8
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	87.1	1.9

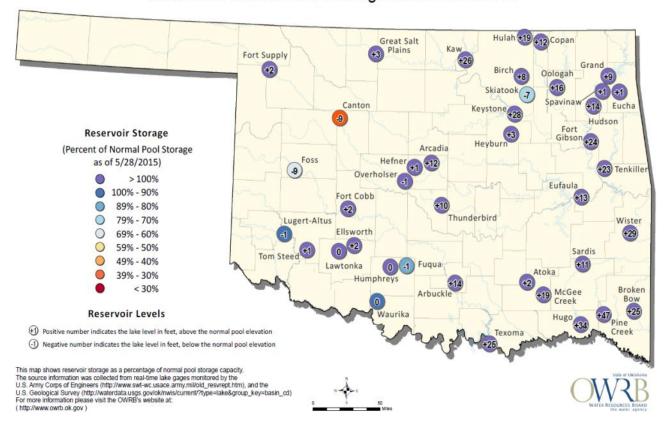
http://www.swt-wc.usace.army.mil/old_resvrept.htm http://waterdata.usgs.gov/ok/nwis/dv/?site_no=07333010&agency_cd=USGS&referred_module=sw

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

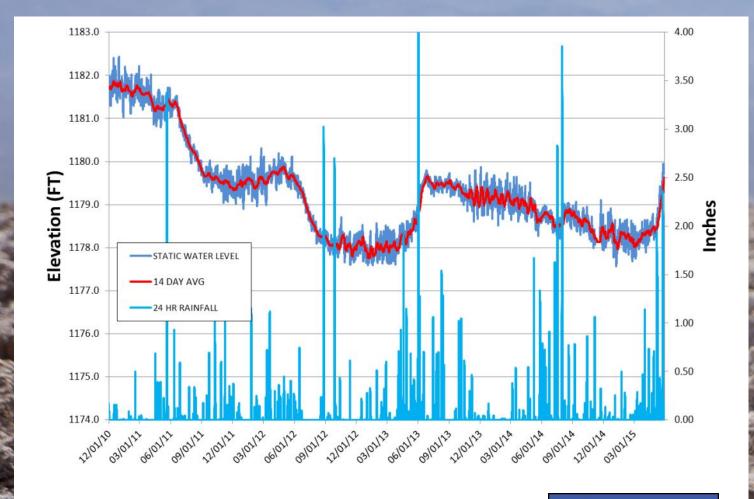
Reservoir Levels and Storage as of 5/28/2015



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



Groundwater Levels Spencer Mesonet Station

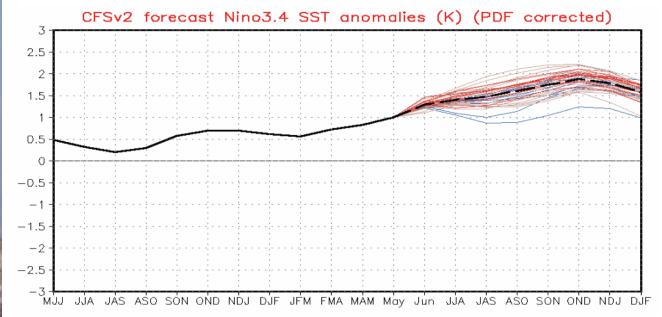


 $\underline{http://www.mesonet.org/index.php/weather/groundwater}$

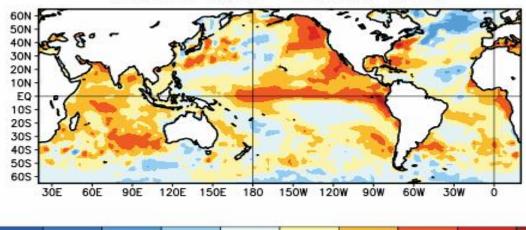




ENSO Cycle Recent Evolution, Current Status and Predictions



Average SST Anomalies 26 APR 2015 - 23 MAY 2015



-0.5



-3

Summary

0

0.5

2

3

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 an approximately 90% chance that El Niño conditions will continue through Northern Hemisphere summer 2015, and a greater than 80% chance it will last through 2015.

