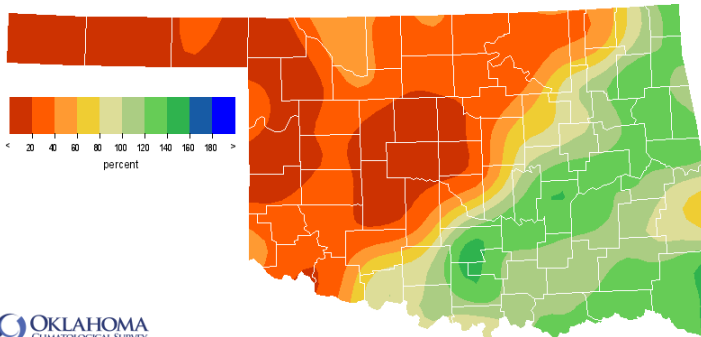


March 29, 2018

## PRECIPITATION

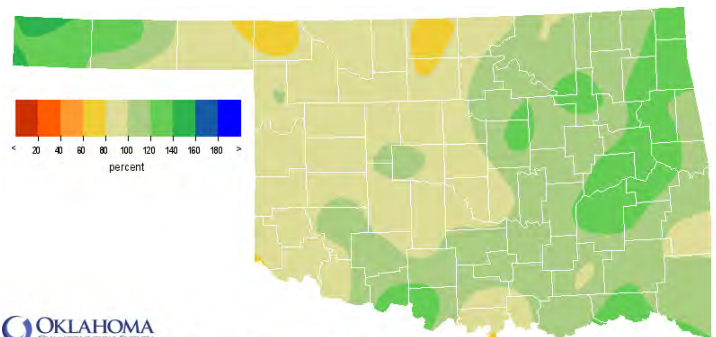
### Statewide Precipitation

Climate Division	Last 30 Days February 27 – March 28, 2018				Last 365 Days March 29, 2017 – March 28, 2018			
	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	RANK SINCE 1921
PANHANDLE	0.18"	-1.18"	13%	12th driest	21.39"	+0.81"	104%	34th wettest
NORTH CENTRAL	0.82"	-1.64"	33%	23rd driest	28.00"	-3.42"	89%	43rd driest
NORTHEAST	2.61"	-0.76"	77%	49th wettest	49.52"	+6.85"	116%	13th wettest
WEST CENTRAL	0.37"	-1.79"	17%	15th driest	26.19"	-2.21"	92%	49th wettest
CENTRAL	1.22"	-1.75"	41%	22nd driest	37.92"	+0.29"	101%	32nd wettest
EAST CENTRAL	4.54"	+0.81"	122%	20th wettest	55.92"	+9.78"	121%	7th wettest
SOUTHWEST	0.80"	-1.43"	36%	19th driest	30.36"	+0.09"	100%	35th wettest
SOUTH CENTRAL	3.86"	+0.57"	117%	21st wettest	42.89"	+2.18"	105%	29th wettest
SOUTHEAST	5.19"	+0.91"	121%	21st wettest	57.98"	+7.39"	115%	16th wettest
STATEWIDE	2.13"	-0.73"	75%	43rd driest	38.80"	+2.33"	106%	23rd wettest



OKLAHOMA CLIMATOLOGICAL SURVEY  
Percentage of 1981-2010 Normal Rainfall  
Last 30 Days

Feb 27, 2018 through Mar 28, 2018  
Created: 2018-03-29 11:05:21 CDT. Copyright © 2018

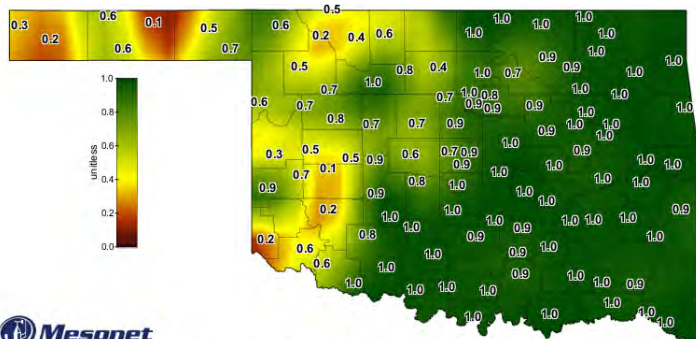


OKLAHOMA CLIMATOLOGICAL SURVEY  
Percentage of 1981-2010 Normal Rainfall  
Last 365 Days

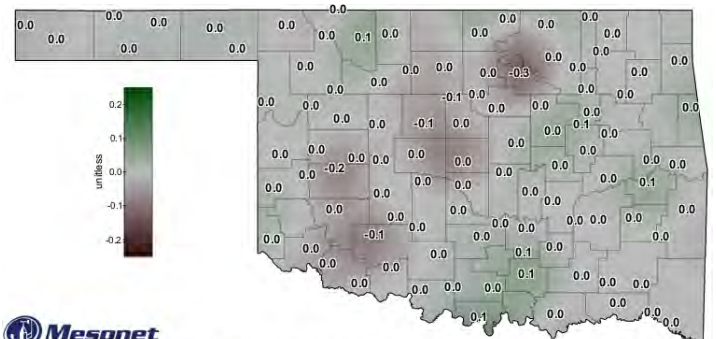
Mar 29, 2017 through Mar 28, 2018  
Created: 2018-03-29 11:05:21 CDT. Copyright © 2018

## SOIL MOISTURE

### Fractional Water Index March 28, 2018



Mesonet  
1-day Average 10-inch Fractional Water Index  
March 28, 2018  
Created: 7:30:14 AM March 29, 2018 CDT. © Copyright 2018



Mesonet  
7-day 10-inch Fractional Water Index Change  
March 28, 2018  
Created: 8:30:51 AM March 29, 2018 CDT. © Copyright 2018

The Fractional Water Index ranges from very dry soil having a value of 0 to soil at field capacity illustrated by a value of 1. [1.0-0.8 = Enhanced Growth; 0.8-0.5 = Limited Growth; 0.5-0.3 = Plants Wilting; 0.3-0.1 = Plants Dying; <0.1 = Barren Soil.]

# DROUGHT INDICES

Palmer Drought Severity Index (PDSI)					Standardized Precipitation Index (SPI) Through February 2018		
Climate Division	Status 3/24/18	Value		Change in Value	3-month	12-month	24-month
		2/10	3/24				
NORTHWEST	Moderate Drought	-1.22	-2.22	1.0(-)	Exceptionally Dry	Near Normal	Near Normal
NORTH CENTRAL	Near Normal	-1.31	-1.54	0.23(-)	Severely Dry	Near Normal	Near Normal
NORTHEAST	Near Normal	-1.11	-0.23	0.88(+)	Near Normal	Moderately Moist	Abnormally Moist
WEST CENTRAL	Near Normal	-1.37	-1.74	0.37(-)	Severely Dry	Near Normal	Abnormally Moist
CENTRAL	Near Normal	-1.19	-0.39	0.8(+)	Near Normal	Abnormally Moist	Near Normal
EAST CENTRAL	Near Normal	-0.93	1.66	2.59(+)	Moderately Moist	Moderately Moist	Near Normal
SOUTHWEST	Near Normal	-0.26	-0.87	0.61(-)	Abnormally Dry	Moderately Moist	Moderately Moist
SOUTH CENTRAL	Near Normal	-1.35	0.63	1.98(+)	Moderately Moist	Near Normal	Near Normal
SOUTHEAST	Near Normal	-0.28	1.22	1.5(+)	Extremely Moist	Abnormally Moist	Near Normal

extreme drought -4.0 or less	severe drought -3.0 to -3.9	moderate drought -2.0 to -2.9	near normal -1.9 to +1.9	unusual moist spell +2.0 to +2.9	very moist spell +3.0 to +3.9	extremely moist +4.0 and above				
exceptionally dry -2.00 and below	extremely dry -1.99 to -1.60	severely dry -1.59 to -1.30	moderately dry -1.29 to -0.80	abnormally dry -0.79 to -0.51	near normal -0.50 to +0.50	abnormally moist +0.51 to +0.79	moderately moist +0.80 to +1.29	very moist +1.30 to +1.59	extremely moist +1.60 to +1.99	exceptionally moist +2.0 and above

*The PDSI is based upon precipitation, temperature, and soil moisture, and is considered most effective for unirrigated cropland, spanning from -10 (dry) to +10 (wet). According to the latest PDSI, all climate regions in the state are experiencing near normal conditions except the Northwest, which has moved to the Moderate Drought classification.*

*The SPI provides a comparison of precipitation over several specified periods with totals from the same periods for all years included in the historical record. For the 3-month period, the Northwest region is shown as Exceptionally Dry, and the North Central and West Central as Severely Dry, but all regions are shown as Near Normal or wetter for the 12- and 24-month periods.*

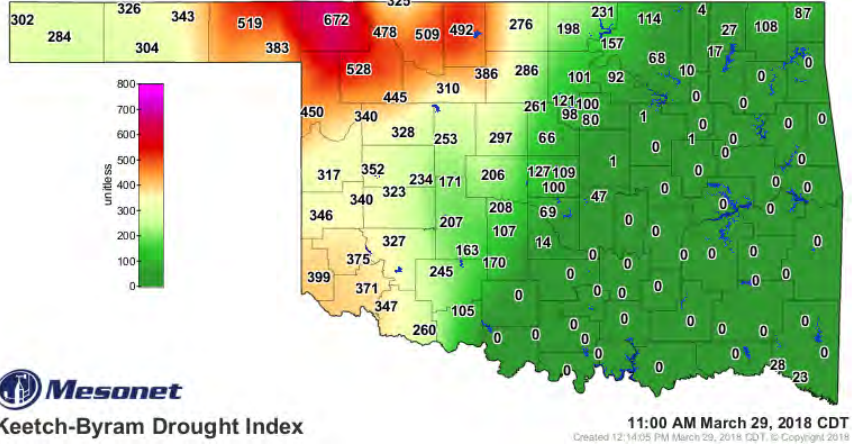
## Keetch-Byram Drought Fire Index

March 29, 11:00 a.m.--1 station is above 600.

STATION	REGION	KBDI
Buffalo	Northwest	672

One station was above 600 on Feb. 15, 2018.

The Keetch-Byram Drought Index measures the state of near-surface soil moisture (within the uppermost eight inches of soil) as well as the amount of fuel available for fires. KBDI values of 600 and above are often associated with more severe drought and increased wildfire occurrence.



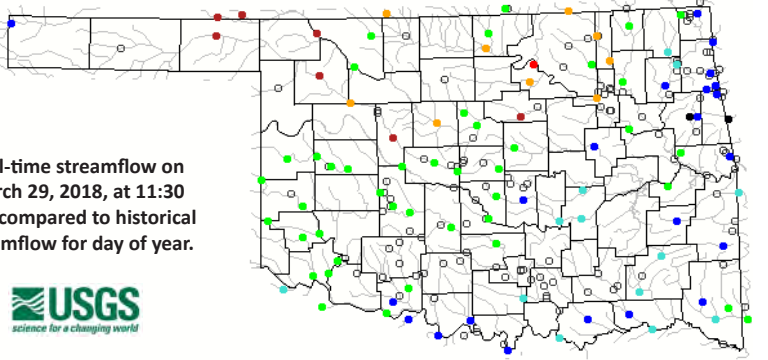
## STREAMFLOW CONDITIONS

### March 29, 2018

Explanation - Percentile classes						
●	●	●	●	●	●	●
<b>Low</b>	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	<b>High</b>
						Not ranked

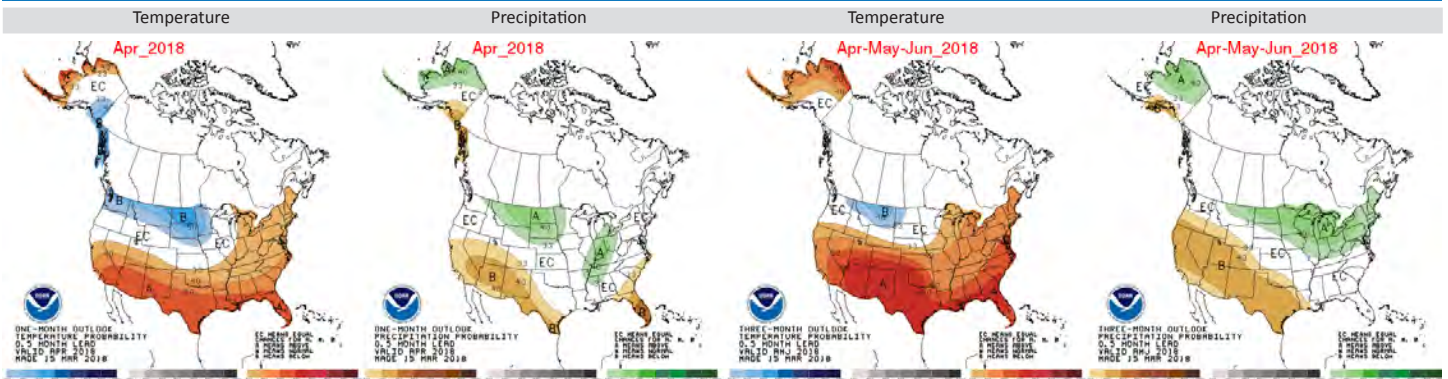
Visit [waterwatch.usgs.gov](http://waterwatch.usgs.gov) for real-time streamflow information.

Real-time streamflow on March 29, 2018, at 11:30 a.m. compared to historical streamflow for day of year.



# WEATHER/DROUGHT FORECAST

## Seasonal Outlook



The contours on the maps show the total probability of three categories—above, indicated by the letter "A"; and below, indicated by the letter "B". "EC" indicates "Equal Chances" for A or B.

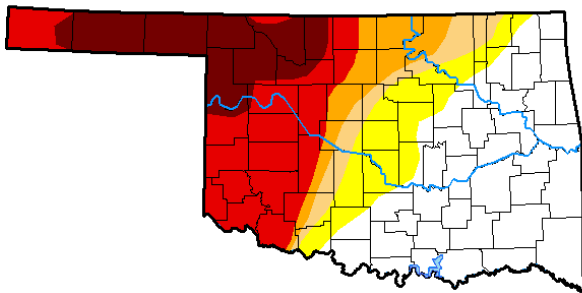
## Drought Summary & Outlook

### U.S. Drought Monitor Oklahoma

March 27, 2018

(Released Thursday, Mar. 29, 2018)

Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	40.71	59.29	47.60	42.29	34.93	14.79
Last Week 03-20-2018	38.11	61.89	48.50	42.41	34.93	8.20
3 Months Ago 12-26-2017	0.00	100.00	75.97	28.19	0.00	0.00
Start of Calendar Year 01-02-2018	0.00	100.00	77.15	38.76	0.00	0.00
Start of Water Year 09-26-2017	64.46	35.54	0.77	0.00	0.00	0.00
One Year Ago 03-28-2017	7.24	92.76	77.80	36.07	2.99	0.00

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

According to the latest U.S. Drought Monitor, as of March 27, the estimated Oklahoma population in drought areas is 719,911, down by more than 3 million from this time last month. However, almost all of the western half of the state is now abnormally dry or worse. Almost 15% of the state in area is in exceptional drought (D4), the driest category, including most of the Northwest region. Almost 35% of the state is in Extreme Drought (D3), stretching from north to south in the western third of the state.

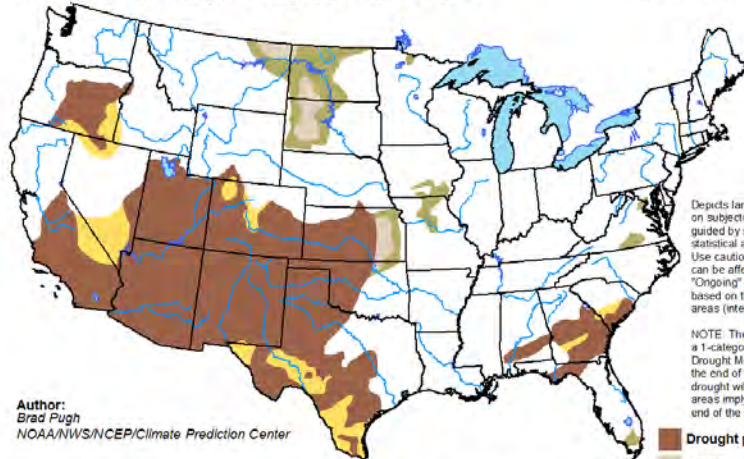
Author:  
Chris Fenimore  
NCEI/NESDIS/OAA



<http://droughtmonitor.unl.edu/>

### U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for March 15 - June 30, 2018  
Released March 15, 2018



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



<http://go.usa.gov/3eZ73>

According to the latest seasonal drought outlook for the period of March 15 through June 30, 2018, the western half of Oklahoma will remain in persistent drought. This area spreads west all the way through California-- nearly the entire southwestern quadrant of the contiguous US is predicted to have persistent drought for the next few months.

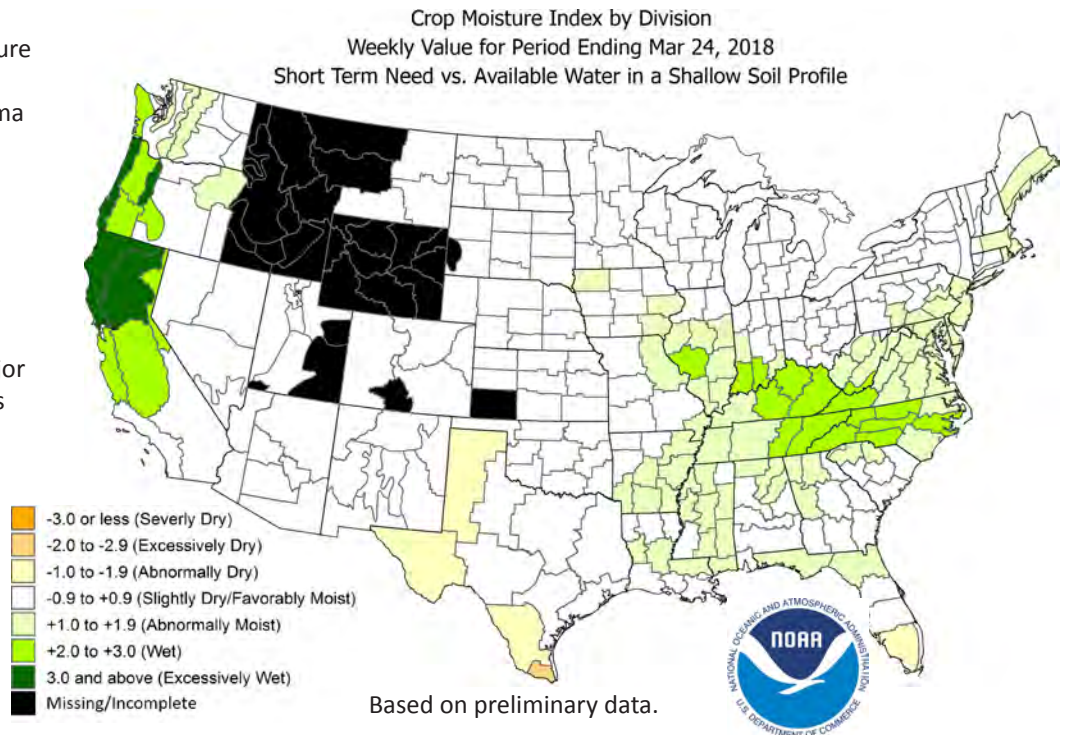
Author:  
Brad Pugh  
NOAA/NWS/NCEP/Climate Prediction Center



# CROP MOISTURE INDEX

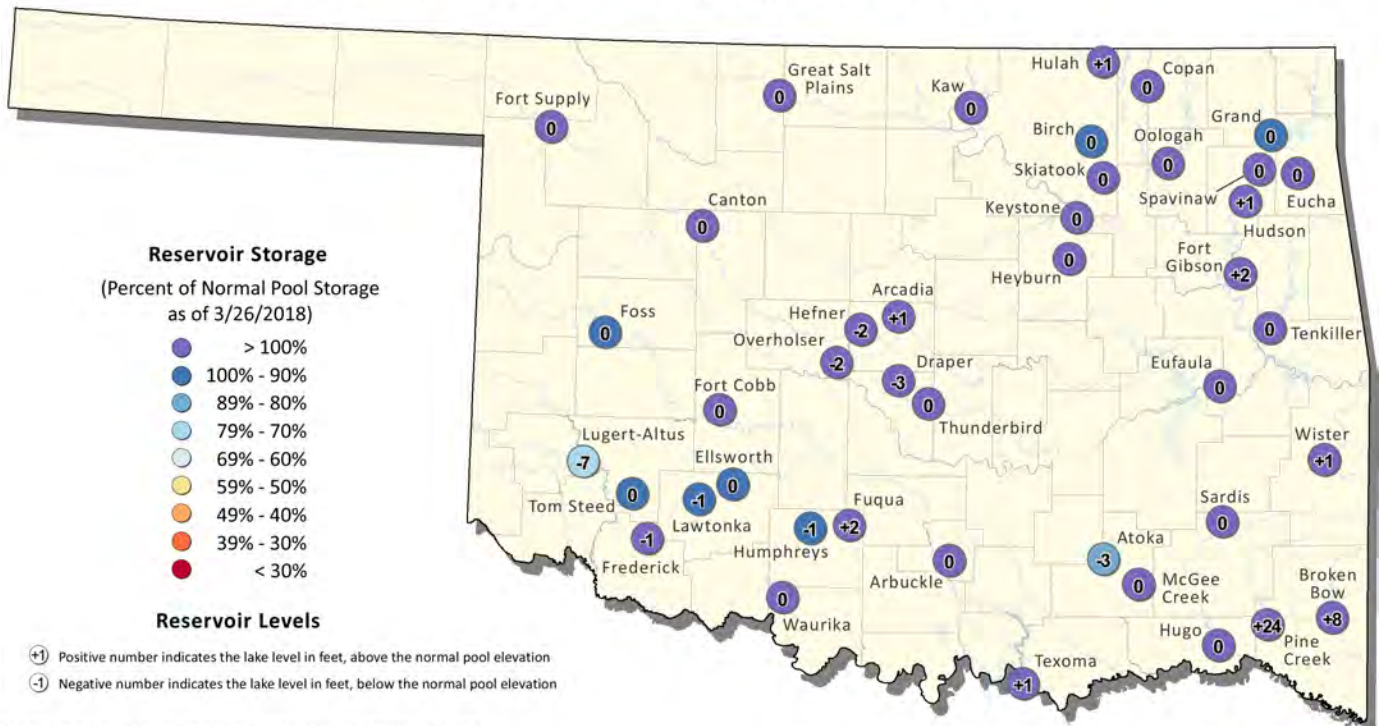
According to the NOAA Crop Moisture Index by Division, for the period ending March 24, 2018, all Oklahoma climate regions are experiencing Slightly Dry/Favorably Moist conditions (-0.9 to +0.9).

Derived from the Palmer Drought Severity Index (PDSI), the Crop Moisture Index reflects moisture supply in the short-term across major crop-producing regions. It identifies potential agricultural droughts. It is not intended to assess long-term droughts.



# RESERVOIR STORAGE

## Oklahoma Surface Water Resources Reservoir Levels and Storage as of 3/26/2018



This map shows reservoir storage as a percentage of normal pool storage capacity. The source information was collected from real-time lake gages monitored by the U.S. Army Corps of Engineers ([http://www.swt-wc.usace.army.mil/old\\_resvrep.htm](http://www.swt-wc.usace.army.mil/old_resvrep.htm)), and the U.S. Geological Survey ([http://waterdata.usgs.gov/ok/nwis/current/?type=lake&group\\_key=basin\\_cd](http://waterdata.usgs.gov/ok/nwis/current/?type=lake&group_key=basin_cd)). For more information please visit the OWRB's website at (<http://www.owrb.ok.gov>)



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