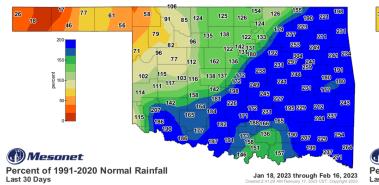




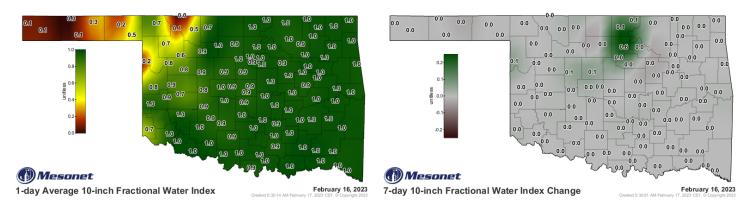
### February 17, 2023

Statewide Precipitation										
	Jani	Last 3 - uary 18, 2023	0 Days - February 1	6, 2023	Last 365 Days February 17, 2022 – February 16, 2023					
Climate Division	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	0.27"	-0.37"	43%	37th driest	12.44"	-8.14"	60%	5th driest		
N. CENTRAL	1.30"	+0.19"	117%	28th wettest	21.82"	-9.60"	69%	8th driest		
NORTHEAST	3.84"	+1.98"	207%	3rd wettest	36.94"	-5.73"	87%	37th driest		
W. CENTRAL	1.01"	-0.04"	96%	45th wettest	22.15"	-6.25"	78%	20th driest		
CENTRAL	2.82"	+1.15"	169%	13th wettest	33.24"	-4.39"	88%	42nd driest		
E. CENTRAL	5.30"	+2.86"	217%	7th wettest	49.30"	+3.16"	107%	22nd wettest		
SOUTHWEST	1.93"	+0.61"	146%	22nd wettest	25.81"	-4.46"	85%	34th driest		
S. CENTRAL	3.72"	+1.55"	171%	13th wettest	33.73"	-6.98"	83%	31st driest		
SOUTHEAST	7.86"	+4.58"	240%	5th wettest	49.59"	-1.00"	98%	48th wettest		
STATEWIDE	3.06"	+1.35"	179%	9th wettest	31.48"	-4.99"	86%	30th driest		





### Soil Moisture



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.]

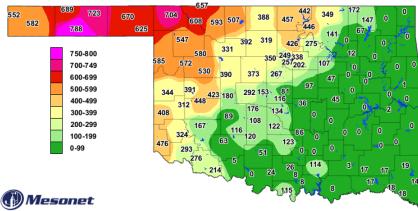
Jan 18, 2023 through Feb 16, 2023

## **DROUGHT INDICES**

Palmer Drought Severity Index (PDSI)					Standardized Precipitation Index (SPI) Through January 2023					
Climate Division	Status 2/11/23	Value 1/14 2/11		Change in Value	3-month	12-month	24-month			
NORTHWEST	Extreme Drought	-5.26 -	4.95	0.31(+)	Moderately Dry	Extremely Dry	Severely Dry			
NORTH CENTRAL	Near Normal	-2.12 -	1.49	0.63(+)	Near Normal	Moderately Dry	Moderately Dry			
NORTHEAST	Near Normal	-1.75	0.02	1.77(+)	Near Normal	Near Normal	Near Normal			
WEST CENTRAL	Near Normal	-2.11 -	1.60	0.51(+)	Near Normal	Moderately Dry	Moderately Dry			
CENTRAL	Near Normal	-1.87 -	0.32	1.55(+)	Near Normal	Near Normal	Near Normal			
EAST CENTRAL	Near Normal	0.23	1.48	1.25(+)	Abnormally Moist	Near Normal	Near Normal			
SOUTHWEST	Near Normal	-0.70	0.45	1.15(+)	Near Normal	Near Normal	Near Normal			
SOUTH CENTRAL	Near Normal	-0.64	0.76	1.4(+)	Near Normal	Abnormally Dry	Abnormally Dry			
SOUTHEAST	SOUTHEAST Unusual Moist Spell		2.21	2.12(+)	Near Normal	Near Normal	Near Normal			
extreme severe drought drought -4.0 or less -3.0 to -3.9	drought normal mo		t spell	extremely moist +4.0 and above	exceptionally extremely severely moderat dry dry dry dry dry dry -2.00 and -1.99 to -1.59 to -1.29 below -1.60 -1.30 -1.20	dry normal moist m	erately very extremely exceptionally noist moist moist moist 80 to +1.30 to +1.60 to +2.0 and .29 +1.59 +1.99 above			

The <u>PDSI</u> 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, as of February 11, 2023, all climate regions were Near Normal or wetter except the Northwest, which remained in Extreme Drought. *zouan* -1.98 to -1.58 to -1.29 to -1.29 to -0.51 to +0.51 to +0.20 to +0.51 to +1.99 to +1.99 to +1.99 to 20 and *zouan* -1.98 to -1.58 to -1.29 to -0.51 to +0.59 to +0.79 to +1.99 to +1.99 to 20 and *zouan zouan zo* 

## **Keetch-Byram Drought Fire Index**



Keetch-Byram Drought Index

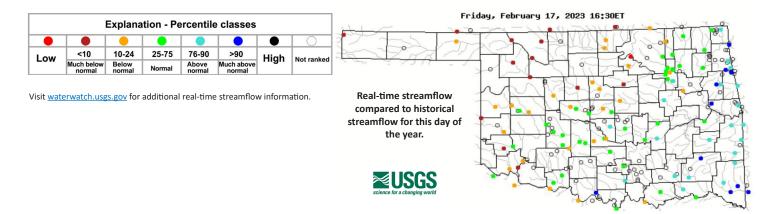
3:30 PM February 17, 2023 CST treated 3:45:55 PM February 17, 2023 CST. Copyright 2023 The Keetch-Byram Drought Index measures the state of near-surface soil moisture (within the uppermost eight inches of soil) as well as the amount of fuel available for fires.

KBDI values of 600 and above are often associated with more severe drought and increased wildfire occurrence.

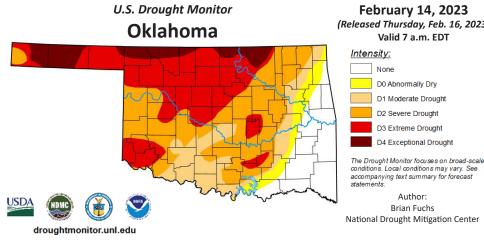
## State & County Burn Ban Status



### **Streamflow Conditions**



### **Drought Summary for Oklahoma**



## February 14, 2023

(Released Thursday, Feb. 16, 2023) Valid 7 a.m. EDT

D2 Severe Drought

D3 Extreme Drought D4 Exceptional Drought

Author:

Brian Fuchs

None D0 Abnormally Dry D1 Moderate Drought

### D0 - Abnormally Dry

eat, canola, alfalfa, pecans); winter wheat germination is Crops are stressed delayed Stock pond levels decline

#### **D1 - Moderate Drought**

age yields are reduced Summer crop and forage yields are reduced
 Wildfire risk increases
 Lake recreation activities are affected; deer reproduction is poor

#### D2 - Severe Drought

 Dryland crops are
 Cattle are stressed rely reduced; pasture growth is stunted

Burn bans begin

#### D3 - Extreme Drought

Grasses are dorman, and hay is nonexistent; planting is delayed; fields are spotty; emergency CRP grazing is authorized
 Cattle have little water and feed
 Wildfires are increasing in number and severity; air quality is poor, with dust storms
 and smoke

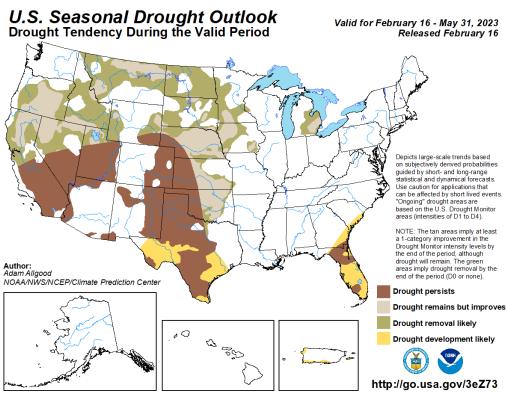
#### D4 - Exceptional Drought

 Ground is cracking; farmers are bailing failed crops or abandoning fields; pastures are bare; land is abandoned Cost of hay and water is high and supplies are scarce; producers are liquidating herds
Burn restrictions increase; fire season is long

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2023-02-14	14.97	85.03	80.07	66.94	36.58	8.07	277
Last Week	2023-02-07	5.88	94.12	84.95	79.25	56.20	11.27	326
3 Months Ago	2022-11-15	0.00	100.00	97.71	87.88	64.07	19.67	369
Start of Calendar Year	2022-12-27	1.82	98.18	89.73	80.92	56.13	11.65	337
Start of Water Year	2022-09-27	0.00	100.00	99.88	94.44	64.44	17.25	376
One Year Ago	2022-02-15	2.33	97.67	87.98	76.35	55.65	2.90	321

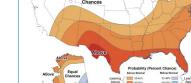
According to the latest U.S. Drought Monitor, as of February 14, 2023, an estimated 3,271,562 people in Oklahoma (80.07% of the state in area) were experiencing drought conditions, including 8.07% of the state in area in Exceptional Drought (D4), 36.58% in Extreme Drought (D3) or worse, and 66.94% in Severe Drought (D2) or worse.

## **Drought Probability**



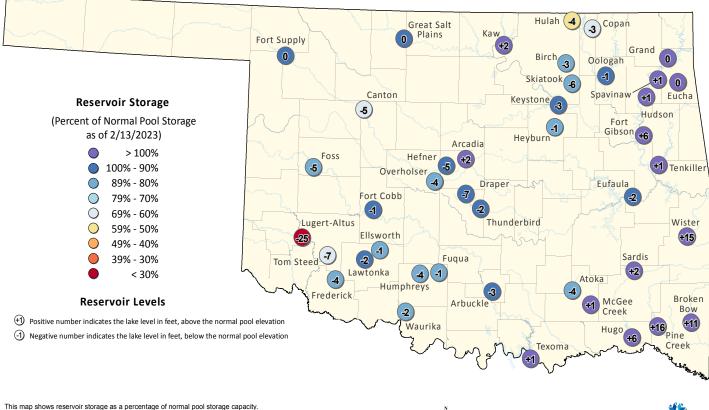
### Monthly/Seasonal Outlook ( Monthly Temperature Outlook 9 Valid: March 2023 Below Equal Probability ( e% 33-42% 40.55\% 40.55\% 4000\% 40.55\% 40.55\% Above Above Leaning Likely Above Likely (1) Seasonal Temperature Outlook 9 Valid: Mar-Apr-May 2023 Issued: February 16, 2023 Rolow Leanin Likely ( Monthly Precipitation Outlook Valid: Marci Equal Leaning Leanin Likely Above 40 Likely Seasonal Precipitation Outlook

Equal Equal Chance Likel



### **Reservoir Levels**

# Oklahoma Reservoir Levels and Storage as of 2/13/2023



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 (https://www.swt-wc.usace.army.mil/Daily\_Morning\_Reservoir\_Report.pdf), and the U.S. Geological Survey(https://waterdata.usgs.gov/ok/nwis/current/?type=lake&group\_key=basin\_cd). For more information please visit the OWRB's website: (https://www.swtb.dc.gov).

The Oklahoma Water Resources Bulletin is compiled and distributed monthly by the Oklahoma Water Resources Board utilizing products and information developed by the Oklahoma Climatological Survey, Oklahoma Mesonet, National Oceanic and Atmospheric Administration, National Drought Mitigation Center, US Geological Survey, US Army Corps of Engineers, and US Department of Agriculture. For questions or comments contact Darla Whitley, Editor.

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