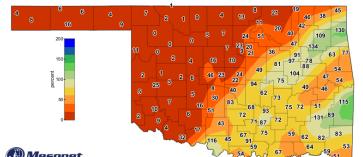
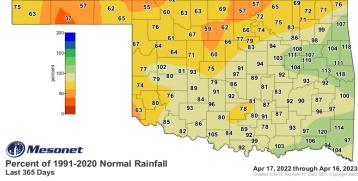




April 17, 2023

	Statewide Precipitation							
Last 30 Days March 18, 2023 – April 16, 2023				Last 365 Days April 17, 2022 – April 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	0.11"	-1.45"	7%	3rd driest	11.77"	-8.81"	57%	1st driest
N. CENTRAL	0.17"	-2.49"	6%	2nd driest	19.65"	-11.77"	63%	8th driest
NORTHEAST	2.25"	-1.34"	63%	28th driest	35.42"	-7.25"	83%	28th driest
W. CENTRAL	0.11"	-2.12"	5%	5th driest	21.27"	-7.13"	75%	17th driest
CENTRAL	1.24"	-1.86"	40%	14th driest	31.33"	-6.30"	83%	30th driest
E. CENTRAL	2.90"	-0.88"	77%	39th driest	47.78"	+1.64"	104%	32nd wettest
SOUTHWEST	0.26"	-2.01"	12%	7th driest	24.74"	-5.53"	82%	30th driest
S. CENTRAL	2.44"	-0.83"	75%	39th driest	35.64"	-5.07"	88%	41st driest
SOUTHEAST	3.59"	-0.60"	86%	42nd driest	51.07"	+0.48"	101%	43rd wettest
STATEWIDE	1.45"	-1.51"	49%	18th driest	30.71"	-5.76"	84%	24th driest

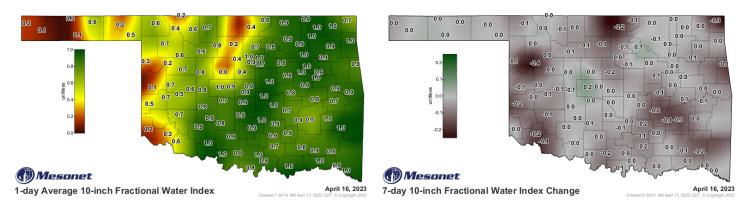




Mesonet Percent of 1991-2020 Normal Rainfall Last 30 Days

Soil Moisture

Mar 18, 2023 through Apr 16, 2023



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 (PDS

51)	Standard	lized Precipitation Ir Through March 2023	ndex (SPI)
nange	2 manth	12 month	24

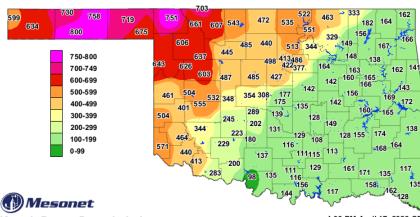
	Climate Di	vision		Status I/15/23	3/	Value 11 4/15	Change in Value	
NORTHWEST			Extre	-4.8	8 -5.44	0.56(-)		
	NORTH CE	ORTH CENTRAL		Moderate Drought		7 -2.72	1.35(-)	
	NORTHE	AST	Nea	1.0	0 0.21	0.79(-)		
	WEST CENTRAL CENTRAL EAST CENTRAL SOUTHWEST SOUTH CENTRAL SOUTHEAST		Seve	-1.8	2 -2.93	1.11(-)		
			Near Normal		0.5	5 0.27	0.28(-)	
			Near Normal		2.5	2 1.25	1.27(-)	
			Near Normal		0.5	9 -0.12	0.71(-)	
			Near Normal		2.3	5 1.36	0.99(-)	
			Unusual Moist Spell		ll 3.1	9 2.03	1.16(-)	
	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	

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, as of April 15, 2023, the Northwest remained in Extreme Drought and North Central and West Central were in Moderate Drought. All other climate regions were Near Normal or wetter.

3-month	12-month	24-month		
Moderately Dry	Extremely Dry	Exceptionally Dry		
Moderately Dry	Severely Dry	Extremely Dry		
Near Normal	Near Normal	Near Normal		
Moderately Dry	Moderately Dry	Moderately Dry		
Near Normal	Near Normal	Near Normal		
Very Moist	Abnormally Moist	Abnormally Moist		
Near Normal	Near Normal	Near Normal		
Moderately Moist	Near Normal	Near Normal		
Extremely Moist	Abnormally Moist	Abnormally Moist		
Acceptionally extremely dry severely dry modera dry -2.00 and -1.99 to -1.60 -1.59 to -1.30 -1.29 -0.81	dry normal moist to -0.79 to -0.50 to +0.51 to +	derately very extremely exceptionally moist moist moist moist 0.80 to +1.30 to +1.60 to +2.0 and +1.29 +1.59 +1.99 above		

The SPI provides a comparison of precipitation over several specified time periods with totals from the periods for all years in the historical record. Through March 2023, the Northwest was Exceptionally Dry for the 24-month, Extremely Dry for the 12-month, and Moderatly Dry for the 3-month period. North Central was Extremely Dry for the 24-month, Severely Dry for the 12-month, and Moderately Dry for the 3-month period. West Central was Moderatley Dry for all three periods.

Keetch-Byram Drought Fire Index



Keetch-Byram Drought Index

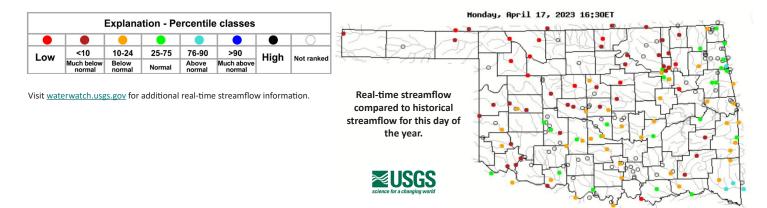
4:00 PM April 17, 2023 CDT

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



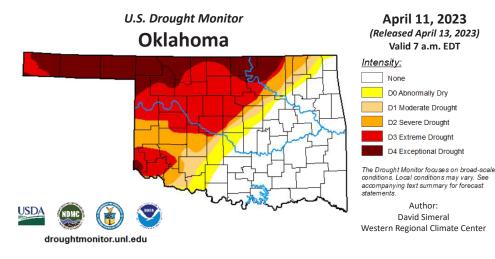
Streamflow Conditions



Drought Summary for Oklahoma

Author:

David Simeral



D0 - Abnormally Dry

at, canola, alfalfa, pecans); winter wheat germination is rops are stres Stock pond levels decline

D1 - Moderate Drought

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 dormant, and hay is nonexistent; planting is delayed; fields are spotty; emergency CRP grazing is authorized - Cattle have little water and feed • Wildfirmse are increasing in number and severity; air quality is poor, with dust storms and firmse.

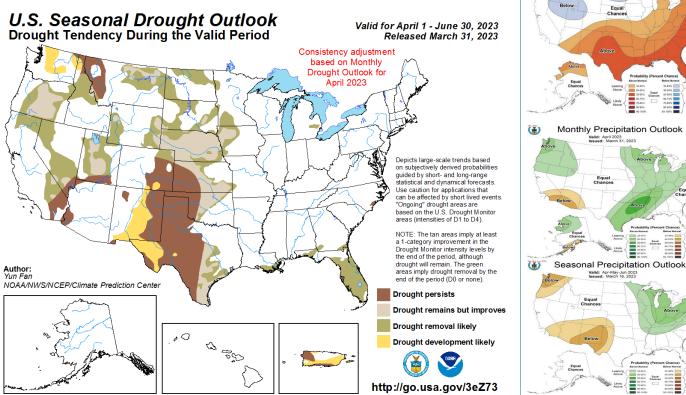
Cost of hay and water is high and supplies are scarce; producers are liquidating herds
 Burn restrictions increase; fire season is long

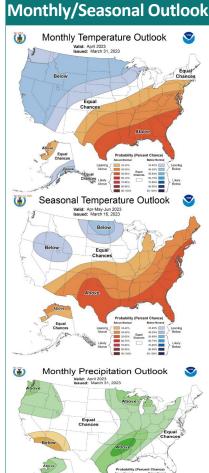
D4 - Exceptional Drought Ground is cracking; farmers are bailing failed crops or abandoning fields; pastures are bare; land is abandoned

Week Date D0-D4 D1-D4 D2-D4 D3-D4 D4 DSCI None Current 2023-04-11 40.29 59.71 53.68 48.59 39.00 16.53 217 Last Week 2023-04-04 39.70 53.65 48.59 37.99 15.27 60.30 216 3 Months Ago 2023-01-10 2.54 97.46 89.12 81.01 57.21 11.77 337 2022-12-27 89.73 80.92 56.13 337 Start of Calendar Year 1.82 98.18 11.65 Start of Water Year 2022-09-27 0.00 100.00 99.88 94.44 64.44 17.25 376 One Year Ago 2022-04-12 15.37 84.63 74.19 59.93 32.15 8.93 260

According to the latest U.S. Drought Monitor, as of April 11, 2023, an estimated 1,542,191 people in Oklahoma (59.71% of the state in area) were experiencing drought conditions, including 16.53% of the state in area in Exceptional Drought (D4), 39% in Extreme Drought (D3) or worse, and 48.59% in Severe Drought (D2) or worse.

Drought Probability





Leaning Above

Equal Chances

Equal

Leanin

- Likely

Likel

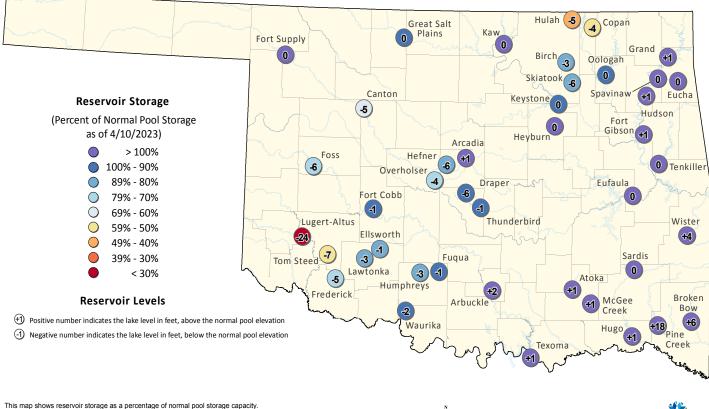
Leaning Above

Equal

Equal

Reservoir Levels

Oklahoma Reservoir Levels and Storage as of 4/10/2023



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.

OKLAHOMA