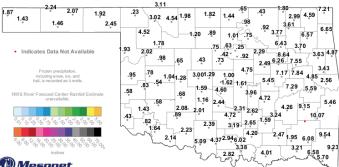
Oklahoma Water Resources Bulletin Summary of Current Conditions

October 13, 2023

Precipitation

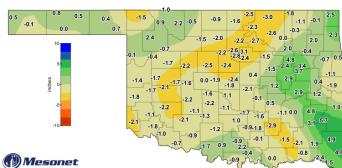
Last 30 Days: September 13, 2023 – October 12, 2023			Last 365 Days: October 13, 2022 – October 12, 2023					
Climate Division	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921
PANHANDLE	1.73"	+0.05"	103%	47th wettest	23.15"	+2.57"	112%	24th wettest
N. CENTRAL	2.11"	-0.88"	70%	48th driest	29.84"	-1.58"	95%	49th wettest
NORTHEAST	4.00"	-0.33"	92%	46th wettest	38.99"	-3.68"	91%	48th driest
W. CENTRAL	0.93"	-1.89"	33%	22nd driest	30.67"	+2.27"	108%	28th wettest
CENTRAL	1.94"	-1.80"	52%	38th driest	36.38"	-1.25"	97%	43rd wettest
E. CENTRAL	5.04"	+0.44"	110%	26th wettest	48.26"	+2.12"	105%	30th wettest
SOUTHWEST	1.29"	-1.62"	44%	30th driest	27.61"	-2.66"	91%	51st driest
S. CENTRAL	3.44"	-0.36"	90%	46th wettest	37.80"	-2.91"	93%	47th wettest
SOUTHEAST	6.74"	+2.46"	158%	17th wettest	57.10"	+6.51"	113%	22nd wettest
STATEWIDE	2.97"	-0.50"	86%	49th wettest	36.35"	-0.12"	100%	43rd wettest



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30-Day Rainfall Accumulation (inches)

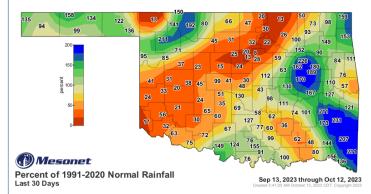
2:05 PM October 13, 2023 CDT



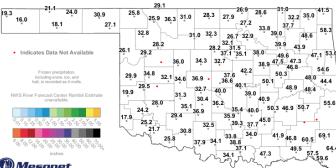
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Departure from 1991-2020 Normal Rainfall Last 30 Days





Water Resources Bulletin, October 13, 2023

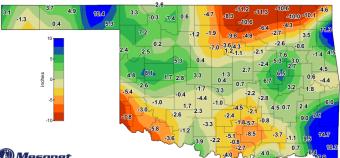


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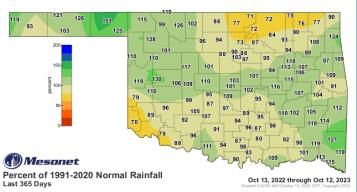
365-Day Rainfall Accumulation (inches)

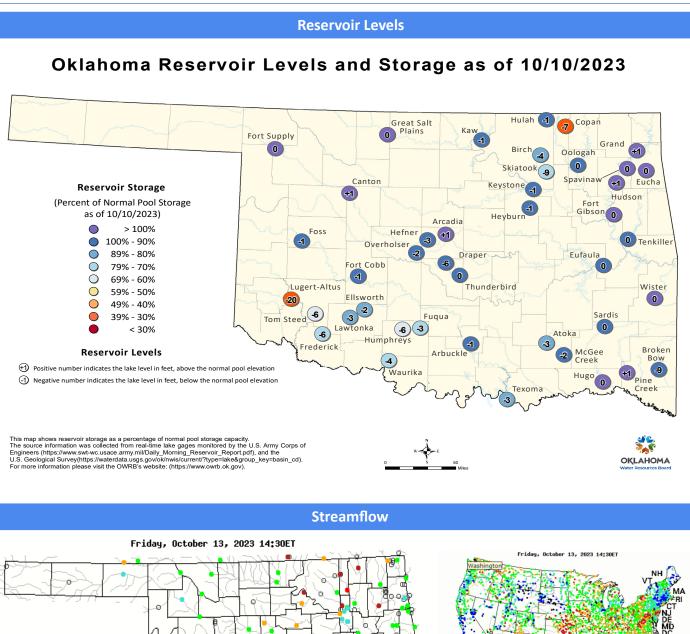
2:05 PM October 13, 2023 CDT

Oct 13, 2022 through Oct 12, 2023



()) Mesonet Departure from 1991-2020 Normal Rainfall Last 365 Days





Real-time streamflow compared to historical streamflow for this day of the year.

Science for a changing world

Explanation - Percentile classes							
		•					\bigcirc
Low	<10	10-24	25-75	76-90	>90	High	Not ranked
LOW	Much below normal	Below normal	Normal Abo		Much above normal	nigh	Not ranked

Visit waterwatch.usgs.gov for additional real-time streamflow information.

Visit the OWRB's Water Data and Analysis Portal for continuous and discrete water quality and

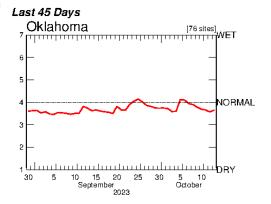
quantity data for Oklahoma lakes, streams, and aquifers across the state.

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Average Streamflow Index



Drought Conditions

Palmer Drought Severity Index (PDSI)

Climate Division	Status 10/7/23	Value 9/9 10/7		Change in Value
NORTHWEST	Very Moist Spell	1.19	3.4	2.21
NORTH CENTRAL	Unusual Moist Spell	1.26	2.14	0.88
NORTHEAST	Near Normal	-0.89	-0.17	0.72
WEST CENTRAL	Near Normal	1.44	1.57	0.13
CENTRAL	Near Normal	0.13	0.37	0.24
EAST CENTRAL	Near Normal	-1.56	0.7	2.26
SOUTHWEST	Near Normal	-1.24	-0.8	0.44
SOUTH CENTRAL	Near Normal	-1.71	-0.86	0.85
SOUTHEAST	Near Normal	-1.77	0.76	2.53
extreme severe drought drought -4.0 or less -3.0 to -3.9	moderate near unusua drought normal moist sp	ell mo	ist spell	extremely moist .0 and above

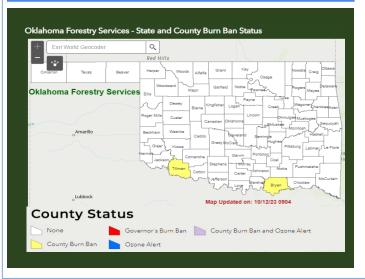
The **PDSI** is based upon precipitation, temperature, and soil moisture, and is considered most effective for unirrigated cropland, spanning from -10 (dry) to +10 (wet). According to the latest PDSI, as of October 7, all climate regions are Near Normal or wetter.

Soil Moisture

0.8 1.0 0.8 0.8 0.8 0.9 0.90.8 0.8

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1-day Average 4-inch Bare Soil Fractional Water Index October 12, 2023 The 1-day Average 4-inch Bare Soil Fractional Water Index map displays the 24-hour-averaged soil moisture at 4 inches under bare soil for the previous day. Fractional water index ranges from 0 (as dry as the sensor can read) to 1.0 (as wet as the sensor can read).



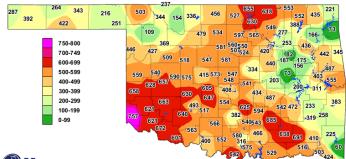
State & County Burn Ban Status

Standardized Precipitation Index (SPI) **Through September 2023**

3-month	12-month	24-month			
Extremely Moist	Moderately Moist	Near Normal			
Moderately Moist	Near Normal	Abnormally Dry			
Near Normal	Near Normal	Abnormally Dry			
Moderately Moist	Abnormally Moist	Abnormally Dry			
Abnormally Moist	Near Normal	Near Normal			
Abnormally Moist	Abnormally Moist	Near Normal			
Near Normal	Near Normal	Moderately Dry			
Abnormally Dry	Near Normal	Moderately Dry			
Near Normal	Abnormally Moist	Near Normal			
exceptionally extremely severely model dry dry dry dry dry -2.00 and -1.99 to -1.59 to -1.20 below -1.60 to -1.30	y dry normal moist 9 to -0.79 to -0.50 to +0.51 to +1	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 September 2023, the North Central, Northeast, West Central, Southwest, and South Central regions were abnormally dry or worse for the 24-month period.

Keetch-Byram Drought Index

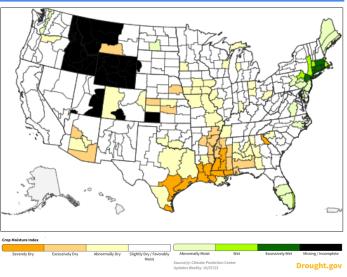


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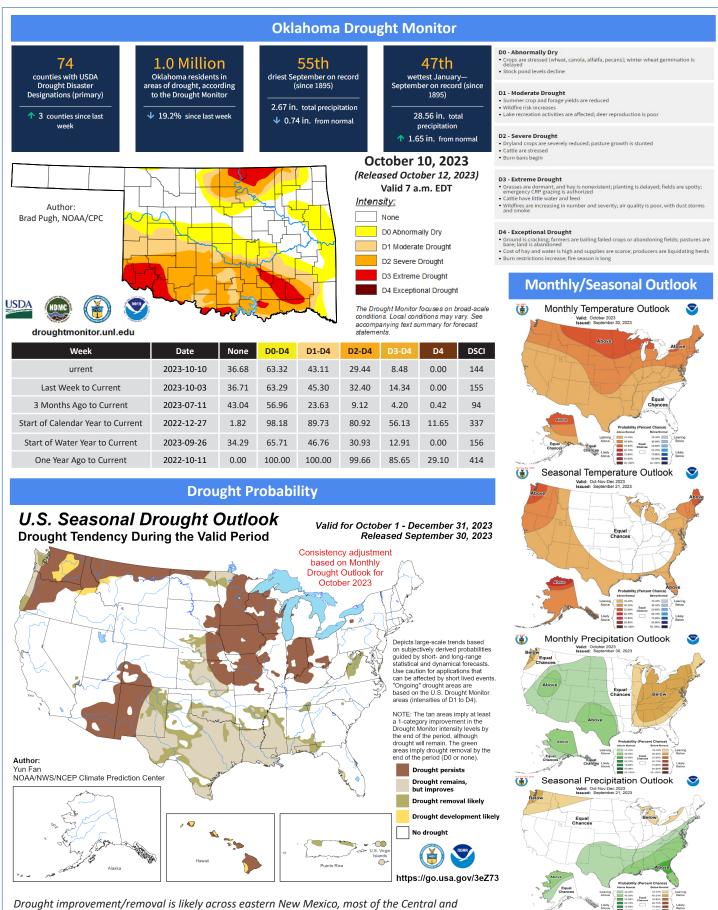
Keetch-Byram Drought Index

2:30 PM October 13, 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 > 600 are often associated with severe drought and increased wildfire occurrence.



Crop Moisture Index



Drought improvement/removal is likely across eastern New Mexico, most of the Central and Southern Plains, parts of the Southeast and Northeast due to forecast above-normal precipitation and/or a favorable time of year for soil moisture recharge.

NOAA/ National Weather Service National Centers for Environmental Prediction Climate Prediction Center