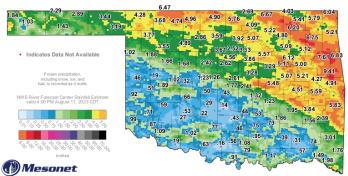
Oklahoma Water Resources Bulletin

Summary of Current Conditions

August 11, 2023

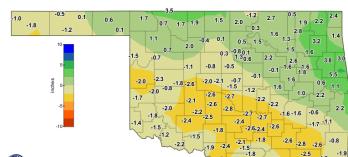
Precipitation

Last 30 Days: July 12, 2023 – August 10, 2023				Last 365 Days: August 11, 2022 – August 10, 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	2.30"	-0.25"	90%	50th driest	20.93"	+0.35"	102%	45th wettest
N. CENTRAL	4.29"	+1.56"	157%	19th wettest	26.53"	-4.89"	84%	38th driest
NORTHEAST	5.41"	+2.25"	171%	17th wettest	34.55"	-8.12"	81%	29th driest
W. CENTRAL	1.14"	-1.11"	51%	30th driest	30.59"	+2.19"	108%	22nd wettest
CENTRAL	2.38"	-0.31"	88%	51st wettest	35.06"	-2.57"	93%	48th wettest
E. CENTRAL	4.84"	+1.73"	156%	20th wettest	44.24"	-1.90"	96%	48th wettest
SOUTHWEST	0.66"	-1.52"	30%	18th driest	28.11"	-2.16"	93%	50th wettest
S. CENTRAL	0.67"	-1.75"	28%	15th driest	37.49"	-3.22"	92%	50th wettest
SOUTHEAST	2.02"	-1.18"	63%	32nd driest	52.81"	+2.22"	104%	36th wettest
STATEWIDE	2.70"	-0.01"	100%	46th wettest	34.17"	-2.30"	94%	51st driest



30-Day Rainfall Accumulation (inches)

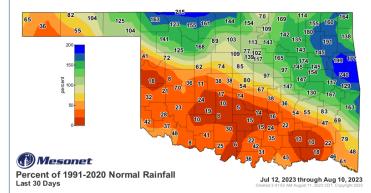
5:25 PM August 11, 2023 CDT



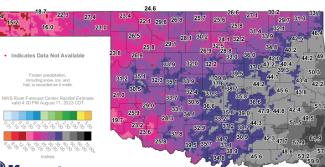
() Mesonet

Departure from 1991-2020 Normal Rainfall Last 30 Days





Water Resources Bulletin, August 11, 2023

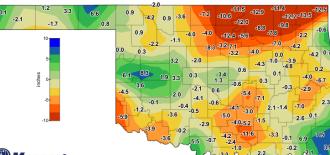


(1) Mesonet

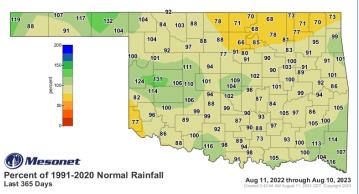
365-Day Rainfall Accumulation (inches)

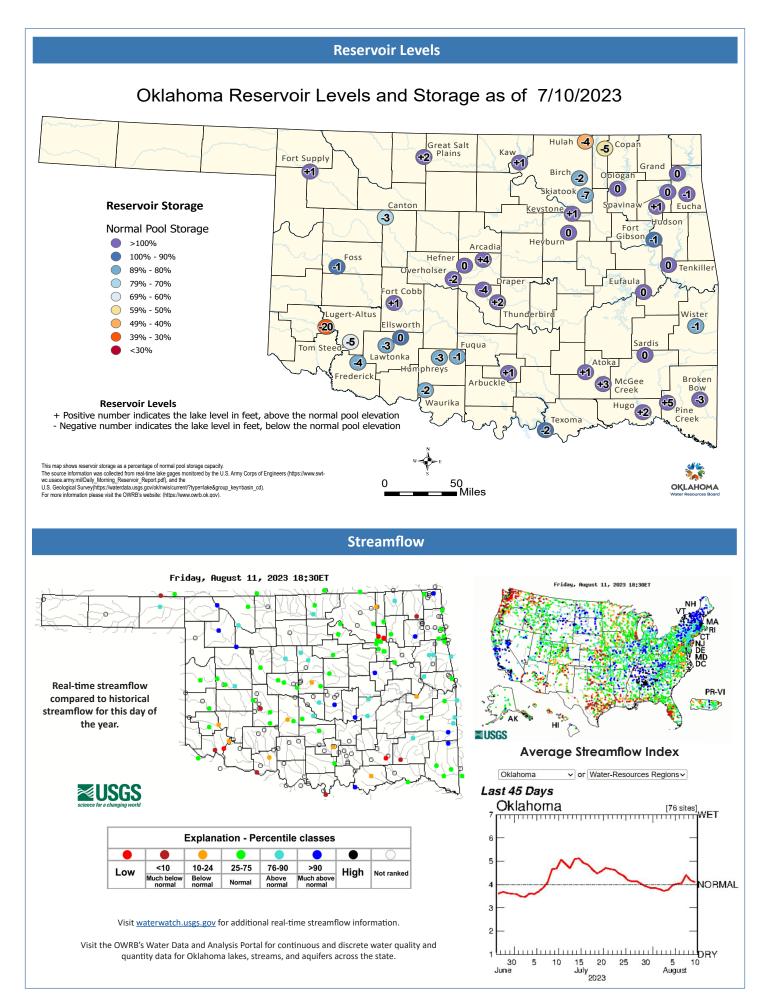
5:25 PM August 11, 2023 CDT

Aug 11, 2022 through Aug 10, 2023



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





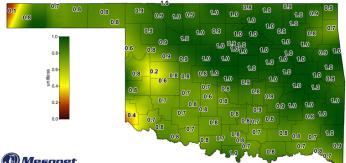
Drought Conditions

Palmer Drought Severity Index (PDSI)

Climate	Division	Status 8/5/23			Va 7/8	alue 8/5	Change in Value
NORTH	NORTHWEST		Very Moist Spell			3.18	-0.38
NORTH CENTRAL		Unusual Moist Spell			1.88	2.36	0.48
NORT	HEAST	Near Normal			-1.48	-1.05	0.43
WEST C	ENTRAL	Unusual Moist Spell			3.26	2.69	-0.57
CEN	TRAL	Near Normal			1.52	0.86	-0.66
EAST CI	ENTRAL	Near Normal			-0.89	-1.11	-0.22
SOUTH	IWEST	Near Normal			1.36	-0.16	-1.52
SOUTH CENTRAL		Near Normal			0.04	-0.48	-0.52
SOUT	HEAST	Near Normal			-0.42	-0.99	-0.57
extreme drought	severe drought	moderate drought	near normal	unusua moist spe +2 0 to +2	ell mo	very ist spell	extremely moist

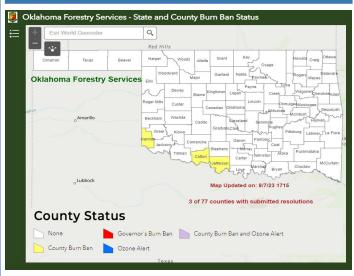
The PDSI is based upon precipitation, temperature, and soil moisture, and is considered most effective for unirrigated cropland, spanning from -10 (dry) to +10 (wet). According to the latest PDSI, as of August 5, all climate regions are Near Normal except the Northwest, Central, and West Central regions, which are Unusually Moist or wetter.

Soil Moisture



Mesonet

August 10, 2023 1-day Average 4-inch Bare Soil Fractional Water Index 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).



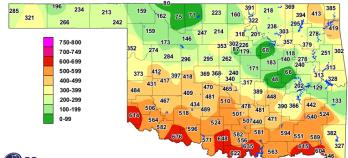
State & County Burn Ban Status

Standardized Precipitation Index (SPI) Through July 2023

3-month	12-month	24-month			
Extremely Moist	Near Normal	Abnormally Dry			
Moderately Moist	Abnormally Dry	Moderately Dry			
Near Normal	Moderately Dry	Moderately Dry			
Extremely Moist	Abnormally Moist	Near Normal			
Moderately Moist	Near Normal	Near Normal			
Near Normal	Near Normal	Near Normal			
Abnormally Moist	Near Normal	Moderately Dry			
Near Normal	Near Normal	Abnormally Dry			
Near Normal	Abnormally Moist	Near Normal			
exceptionally extremely severely moder dry dry dry dry dry -2.00 and -1.99 to -1.59 to -1.2 below -1.60 to -1.30	/ 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 July 2023, the Northwest, Southwest, and South Central regions were dry for the 24-month period, and the North Central and Northeast were dry for the 12- and 24-month periods.

Keetch-Byram Drought Index

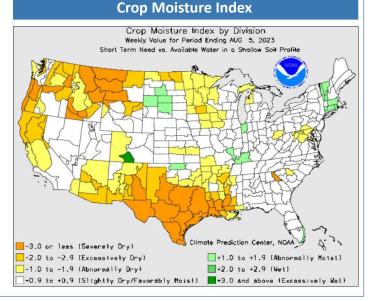


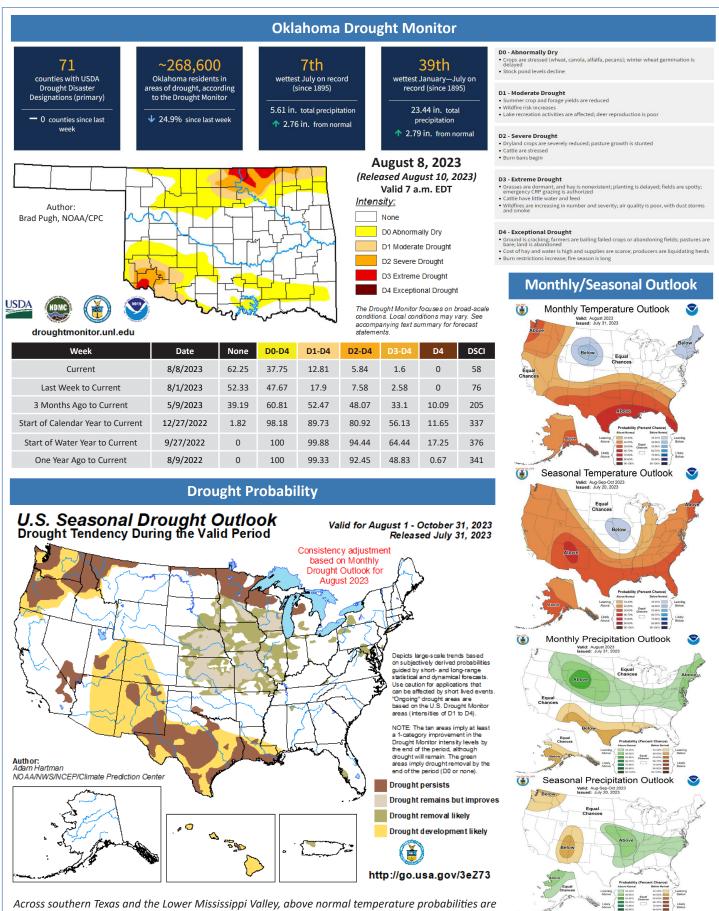
🜒 Mesonet

Keetch-Byram Drought Index

4:15 PM August 11, 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.





Across southern Texas and the Lower Mississippi Valley, above normal temperature probabilities are enhanced, leading to a slight expansion of drought persistence areas with an increased potential for drought development.

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