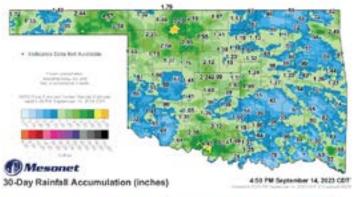
Oklahoma Water Resources Bulletin

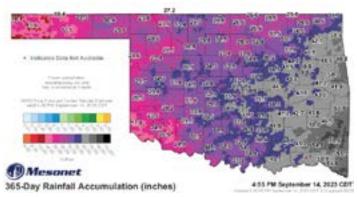
Summary of Current Conditions

September 14, 2023

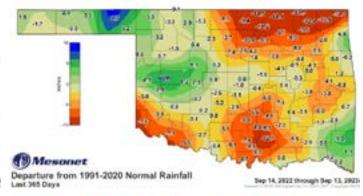
Precipitation

Last 30 Days: August 15, 2023 – September 13, 2023				Last 365 Days: September 14, 2022 – September 13, 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	1.67"	-0.61"	73%	39th driest	21.88"	+1.30"	106%	37th wettest	
N. CENTRAL	1.58"	-1.35"	54%	28th driest	27.94"	-3.48"	89%	46th driest	
NORTHEAST	0.87"	-2.76"	24%	8th driest	35.36"	-7.31"	83%	28th driest	
W. CENTRAL	1.06"	-1.80"	37%	17th driest	30.30"	+1.90"	107%	25th wettest	
CENTRAL	1.26"	-2.08"	38%	16th driest	34.83"	-2.80"	93%	48th wettest	
E. CENTRAL	0.84"	-2.79"	23%	10th driest	43.33"	-2.81"	94%	48th wettest	
SOUTHWEST	1.06"	-1.89"	36%	16th driest	26.83"	-3.44"	89%	47th driest	
S. CENTRAL	0.60"	-2.70"	18%	8th driest	34.62"	-6.09"	85%	37th driest	
SOUTHEAST	0.66"	-2.63"	20%	4th driest	50.39"	-0.20"	100%	51st wettest	
STATEWIDE	1.08"	-2.06"	34%	8th driest	33.70"	-2.77"	92%	48th driest	







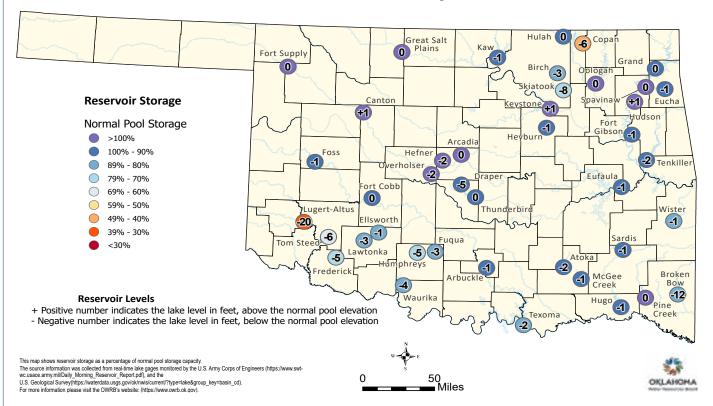




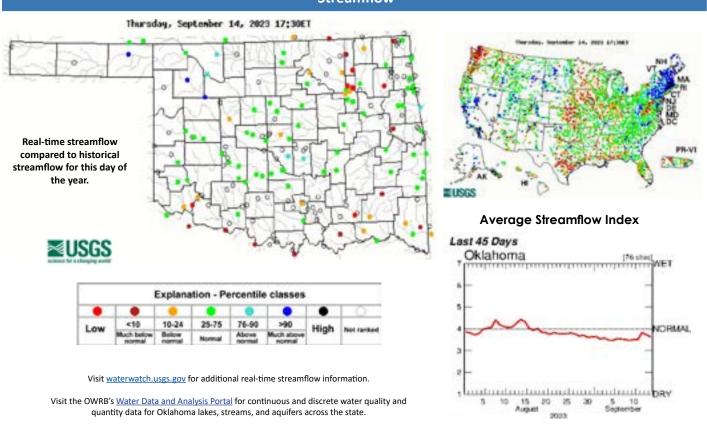


Reservoir Levels

Oklahoma Reservoir Levels and Storage as of 9/11/2023



Streamflow



Drought Conditions

Palmer Drought Severity Index (PDSI)

Climate Division	Status 9/9/23	Va 8/5	alue 9/9	Change in Value	
NORTHWEST	Near Normal		1.19	-1.99	
NORTH CENTRAL	Near Normal	2.36	1.26	-1.1	
NORTHEAST	Near Normal	-1.05	-0.89	+0.16	
WEST CENTRAL	Near Normal	2.69	1.44	-1.25	
CENTRAL	Near Normal	0.86	0.13	-0.73	
EAST CENTRAL	Near Normal	-1.11	-1.56	-0.45	
SOUTHWEST	Near Normal	-0.16	-1.24	-1.08	
SOUTH CENTRAL	Near Normal	-0.48	-1.71	-1.23	
SOUTHEAST	Near Normal	-0.99	-1.77	-0.78	



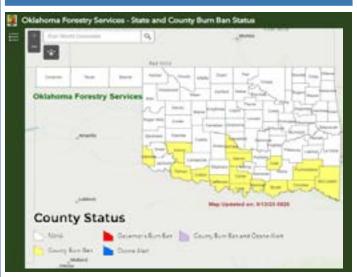
The PDSI is based upon precipitation, temperature, and soil moisture, and is considered most effective for unirrigated cropland, spanning from -10 (dry) to +10 (wet). According to the latest PDSI, as of September 9, all climate regions are Near Normal.

Soil Moisture



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



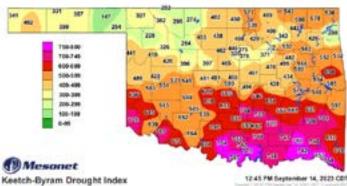
Standardized Precipitation Index (SPI) **Through August 2023**

3-month	12-month	24-month			
Exceptionally Moist	Abnormally Moist	Abnormally Dry			
Moderately Moist	Near Normal	Moderately Dry			
Near Normal	Abnormally Dry	Abnormally Dry			
Exceptionally Moist	Abnormally Moist	Abnormally Dry			
Moderately Moist	Near Normal	Near Normal			
Near Normal	Near Normal	Near Normal			
Abnormally Moist	Near Normal	Moderately Dry			
Near Normal	Near Normal	Moderately Dry			
Near Normal	Near Normal	Near Normal			



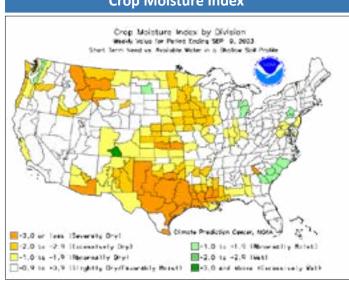
The SPI provides a comparison of precipitation over several specified time periods with totals from the periods for all years in the historical record. Through August 2023, the Northwest, North Central, Northeast, West Central, Southwest, and South Central regions were abnormally dry or worse for the 24-month period.

Keetch-Byram Drought Index



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



Oklahoma Drought Monitor

counties with USGA **Drought Disaster** utions (primary) O counties since test

Author:

Brad Pugh, NOAA/CPC

droughtmonitor.unl.edu

1.0 Million

18.8% since last week

42nd

driest August on record (since 1895)

2.18 in. total precipitation 0.67 in. from normal

43rd

wettest January-August on record (since 1895)

25.76 in. total 2.27 in. from rooms

04 - Exceptional Drought

September 12, 2023 (Released September 14, 2023) Valid 7 a.m. EDT



DO Apnormally Dry D1 Moderate Droop#

DZ Severe Drought DB Extreme Drought

D4 Exceptional Drought

The Elmoght Monitor focuses on broad-ocal conditions. Local conditions may vary. See accompanying text eart many for fanecast

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2023-09-12	37.93	62.07	45.00	29.80	3.51	0.00	140
Last Week to Current	2023-09-05	33.50	66.50	43.39	24.96	2.72	0.00	138
3 Months Ago to Current	2023-06-13	34.99	65.01	49.25	25.38	5.85	1.45	147
Start of Calendar Year to Current	2022-12-27	1.82	98.18	89.73	80.92	56.13	11.65	337
Start of Water Year to Current	2022-09-27	0.00	100.00	99.88	94.44	64.44	17.25	376
One Year Ago to Current	2022-09-13	0.03	99.97	96.53	85.43	48.81	3.06	334

Drought Probability

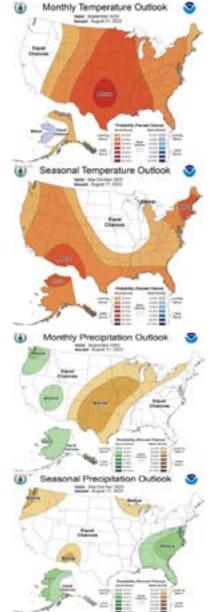
U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for September 1 - November 30, 2023 Released August 31, 2023



Since mid-August, there are stronger indicators for a very warm and dry September in the middle of the country; therefore, a broad area of drought development is now forecast in this region. The seasonal update forecasts this development to persist until the end of November, although with lower confidence than the September drought development forecast.

Monthly/Seasonal Outlook



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