Oklahoma Monthly Climate Summary

JANUARY 2023

OKLAHOMA CLIMATOLOGICAL SURVEY

Oklahoma's January 2023 may have begun with a springlike bang, but it ended with a more appropriate wintry punch. Warm weather dominated the first three weeks of the month, and was on pace to become one of the warmest Januarys on record before winter crashed the party. The early springlike weather also brought Oklahoma its earliest tornadoes within the calendar year since accurate records began in 1950. On Jan. 2, severe storms developed across northeastern Oklahoma and quickly became tornadic, producing five confirmed tornadoes according to the National Weather Service. Not only were the twisters the earliest on record, but the total was also the highest for any January since 1950, besting the four touchdowns recorded in 1957, 1967, 2008, and 2021. The five twisters were generally weak, but still produced damage to homes, outbuildings, and trees. An EF-0 tornado that touched down near Pryor moved over the Oklahoma Mesonet site there, producing a wind gust of 81 mph.

January 2023 Statewide Extremes

Description	Extreme	Station	Day
High Temperature	85°F	Burneyville	11
Low Temperature	2°F	Boise City, Eva	30, 31
High Precipitation	3.38 in.	Mt. Herman	--
Low Precipitation	0.14 in.	Eva	--

Highs in the 60s and 70s during January's first three weeks were replaced with snow, sleet, and freezing rain over the month's final 10 days. The first winter storm on Jan. 23-24 brought the type of picturesque snowfall rarely seen in Oklahoma. Temperatures hovered near freezing in the state, which helped produce snowflakes to the size of half-dollars that fell into a near windless environment, an oddity on most days in Oklahoma. West central Oklahoma saw 6-8 inches of snow with Erick leading the state at 8.9 inches. Locations in central and eastern Oklahoma reported 4-6 inches, and nearly everybody saw at least some snow, albeit briefly. The second winter storm struck just a few days later, but this version was accompanied by frigid arctic air with highs in the teens and 20s and wind chills in the single digits to below zero. There were two separate waves of frozen precipitation over the month's final two days. Thunder-sleet greeted Oklahomans to start the day on the 30th, the convective activity dumping 1-1.5 inches of sleet along the Interstate 44 corridor. Freezing rain fell across southern Oklahoma, enough to glaze trees and other exposed objects. The second round early on the 31st brought more sleet and freezing rain across southern and central Oklahoma, but not

January 2023 Statewide Statistics

Temperature

Period	Average	Departure	Rank (1895-2023)
Month (January)	41.9°F	3.6°F	15th Warmest
Season-to-Date (Dec-Jan)	41.1°F	1.6°F	17th Warmest

Precipitation

Period	Total	Departure	Rank (1895-2023)
Month (January)	1.17 in.	-0.4 in.	20th Driest
Season-to-Date (Dec-Jan)	3.01 in.	-0.62 in.	48th Driest

Departure from 30-year normal

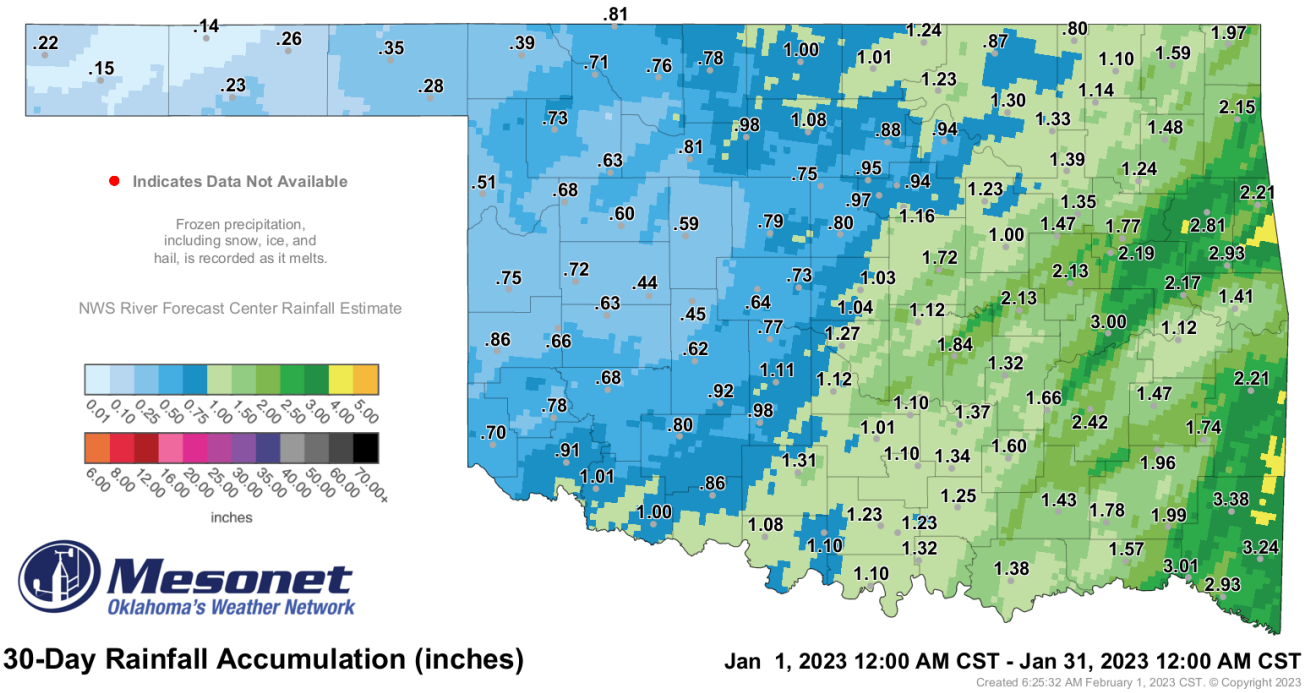
quite as widespread as the previous day.

The statewide average temperature finished at 41.9 degrees for the month, 3.6 degrees above normal and ranked as the 15th warmest January since records began in 1895. The highest reading of the month, 85 degrees, was recorded at Burneyville on the 11th. Temperatures of at least 80 degrees were recorded 14 times across three days at the 120 Mesonet sites, and at least 70 degrees 374 times on 10 separate days. The lowest January temperature was 2 degrees at Boise City on Jan. 30 and again at Eva on Jan. 31. The lowest wind chill was minus 14 degrees at Eva, Goodwell, and Hooker, all on Jan. 30.

Statewide average precipitation finished with a preliminary total of 1.17 inches for the month, 0.4 inches below normal and ranked as the 58th driest January since records began in 1895. That monthly total was expected to rise as frozen precipitation continued to melt and be accounted for across much of the southeastern two-thirds of the state. Far eastern Oklahoma had the greatest totals of 3-4 inches, with a few localized areas with 4-5 inches evident on radar estimates. Much of the western half of the state ended with less than an inch of precipitation, the Mesonet site at Eva's 0.14 inches bringing up the rear.

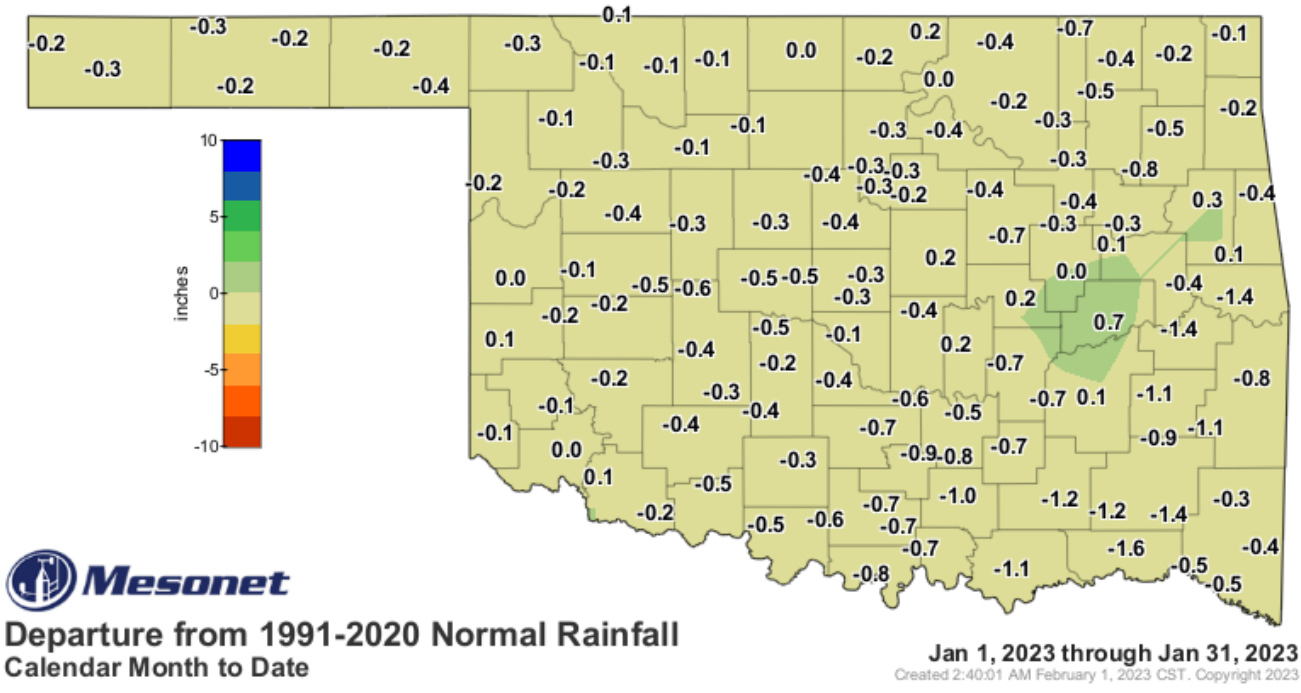
There was little change in Oklahoma's drought situation in January, with 89% of the state in at least moderate drought at the end of the month according to the U.S. Drought Monitor. The Climate Prediction Center's February precipitation outlook indicates increased odds for above normal precipitation across the eastern four-fifths of the state, but especially for the eastern one-third of Oklahoma. The temperature outlook shows increased odds of above normal temperatures for far southeastern Oklahoma. The hopeful precipitation outlook leads to CPC's February drought forecast of improvements across the eastern one-third of the state. Drought is expected to persist across the western two-thirds, however.

JANUARY 2023 OBSERVED PRECIPITATION



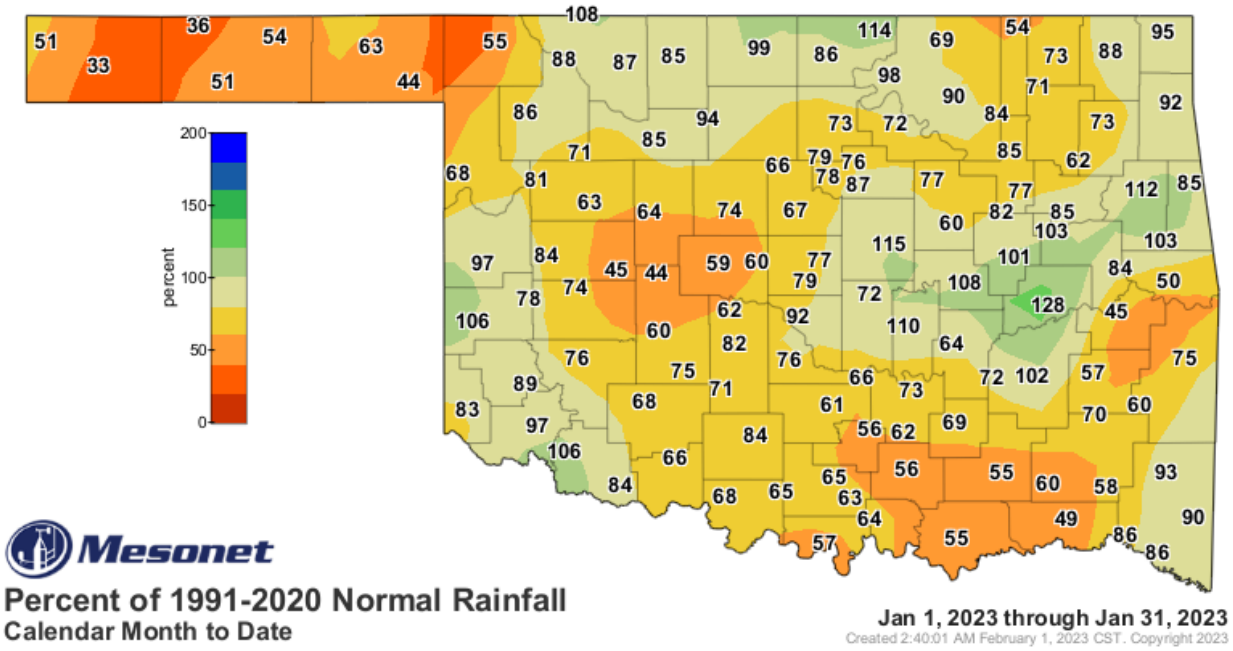
The accumulated rainfall for January varied from less than an inch in central and western Oklahoma to a high of 3.38 inches in eastern Oklahoma at Mt. Herman.

JANUARY 2023 DEPARTURE FROM NORMAL PRECIPITATION



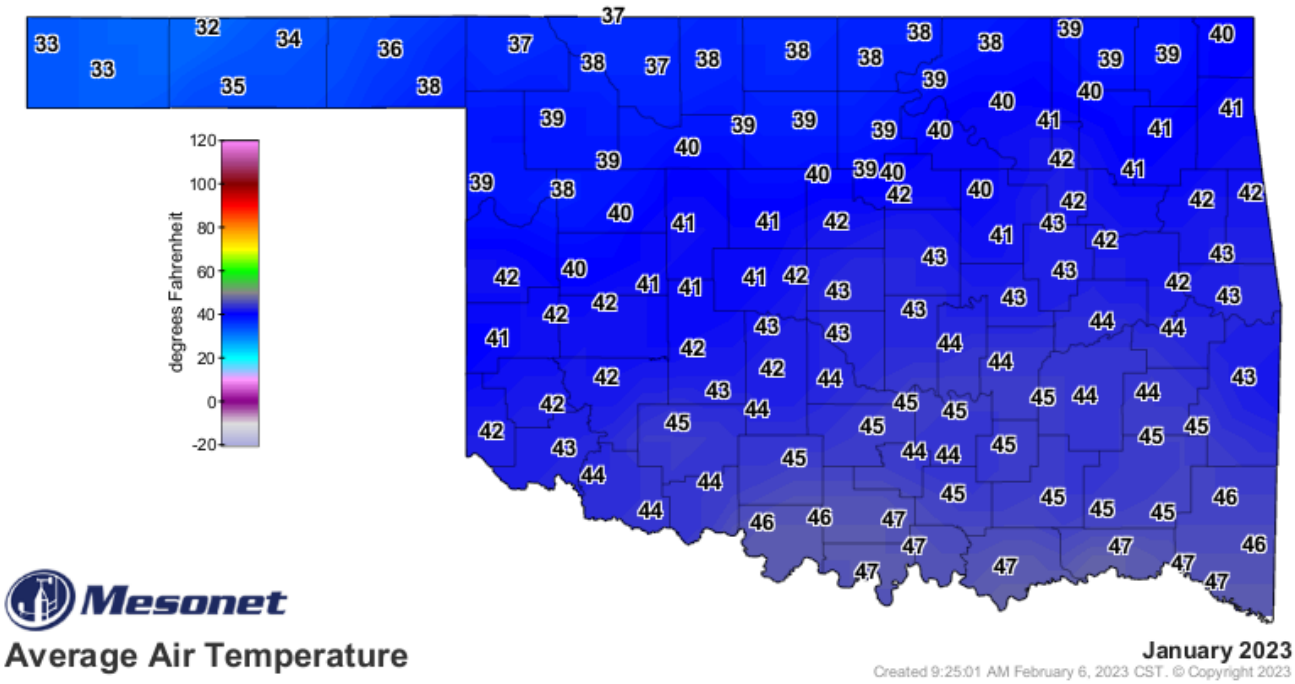
Comparing the rainfall accumulation to the 1991-2020 normal rainfall, nearly all sites were below normal. The Panhandle was behind by less than half an inch but moving east across the state the loss gradually increased to -1.6 inches at Hugo. The wettest area of +0.7 inches occurred at Eufaula.

JANUARY 2023 PERCENT OF NORMAL PRECIPITATION



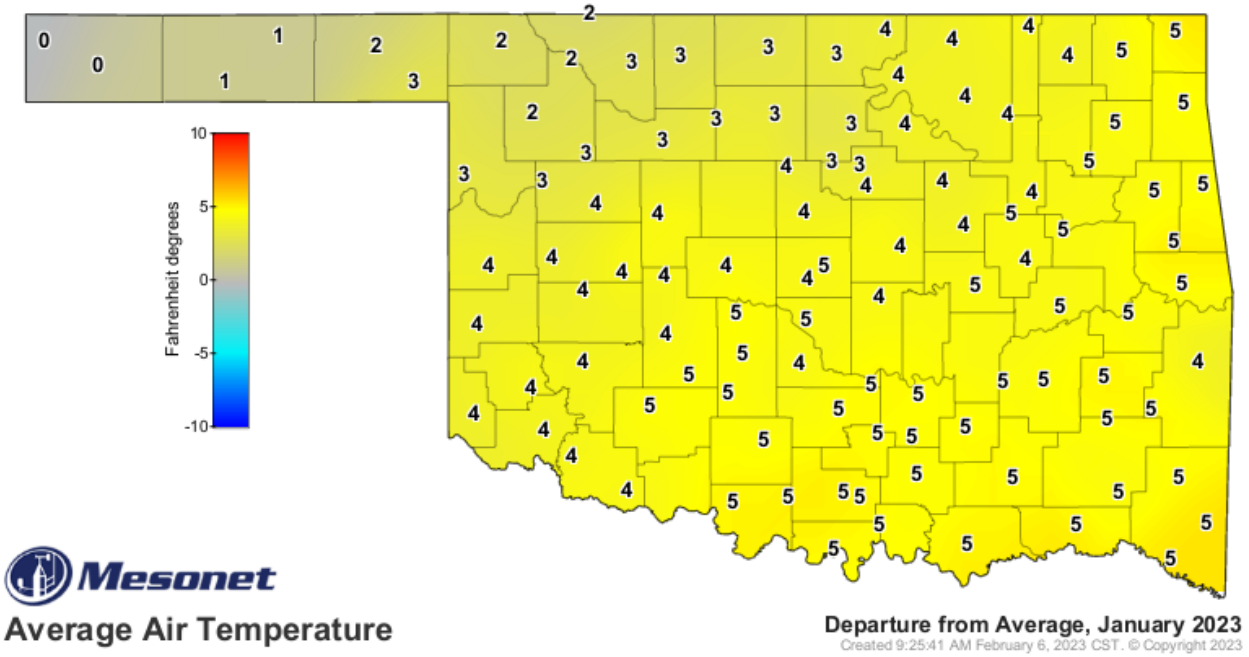
The panhandle and northwestern Oklahoma received between 33% and 63% of normal rainfall with Beaver receiving the most at 63%. Across the rest of the state, the western, central, and eastern border counties ranged from 84% to 114% of normal rainfall. Interior central and southern counties saw less rain ranging between 44 % to 70% of normal. Eufaula received the most rainfall with 128% of normal.

JANUARY 2023 AVERAGE TEMPERATURE IN DEGREES FAHRENHEIT



Temperatures ranged from the mid 30s in the panhandle to the mid 40s in central Oklahoma and upper 40s in southern and southeastern parts of the state.

JANUARY 2023 DEPARTURE FROM NORMAL TEMPERATURE



The temperature departures from normal ranged from 0°F to 3°F in the panhandle. The temperature departures increase to 3°F to 4°F in western and central Oklahoma. The warmest areas were in eastern and southern Oklahoma with temperature departures of 5°F.

MESONET MONTHLY SUMMARY FOR JANUARY 2023

PANHANDLE

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Arnett	40.4	75	6	10	30	762	0	.51	.21	26
Beaver	37.3	73	10	7	30	860	0	.35	.14	24
Boise City	33.9	72	14	2	30	965	0	.15	.12	2
Buffalo	38.5	73	10	11	31	822	0	.39	.21	24
Eva	33.1	71	14	2	31	988	0	.14	.05	2
Goodwell	35.9	72	10	4	30	902	0	.23	.09	24
Hooker	35.2	73	10	5	31	924	0	.26	.16	24
Kenton	33.5	72	14	3	30	975	0	.24	.10	3
Slapout	39.2	74	10	6	31	800	0	.28	.17	24

NORTH CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Alva	38.4	68	10	12	31	825	0	.76	.25	24
Blackwell	38.3	68	2	13	31	829	0	1.01	.46	24
Breckinridge	40.2	69	2	16	30	***	***	1.08	.44	24
Cherokee	38.8	65	15	13	31	811	0	.78	.29	24
Fairview	40.7	71	10	14	31	753	0	.81	.37	25
Freedom	38.7	69	10	11	30	817	0	.71	.24	25
Lahoma	39.7	66	10	13	31	784	0	.98	.32	24
May Ranch	38.1	67	15	10	30	833	0	.81	.22	21
Medford	38.2	62	16	12	31	831	0	1.00	.42	18
Newkirk	38.4	66	2	12	31	824	0	1.24	.44	25
Red Rock	39.7	68	2	15	31	784	0	.88	.26	18
Seiling	39.3	74	10	12	30	797	0	.63	.21	25
Woodward	40.1	75	10	11	30	773	0	.73	.17	25

NORTHEAST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Bixby	42.3	73	1	19	30	704	0	1.35	.78	18
Burbank	39.2	69	2	15	31	799	0	1.23	.38	18
Copan	39.3	71	2	16	31	798	0	.80	.37	18
Foraker	38.7	70	2	13	31	816	0	.87	.38	18
Inola	41.2	74	2	19	14	738	0	1.24	.72	18
Jay	41.3	75	2	17	30	736	0	2.15	.88	18
Miami	40.4	74	2	17	30	762	0	1.97	.88	18
Nowata	38.4	73	2	15	14	824	0	1.10	.59	18
Pawnee	40.5	71	2	16	31	760	0	.94	.43	18
Porter	43.0	73	1	19	30	682	0	1.77	.97	18
Pryor	40.6	74	2	17	13	756	0	1.48	.92	18
Skiatook	41.3	69	2	17	30	735	0	1.33	.81	18
Talala	40.0	72	2	17	13	775	0	1.14	.66	18
Tulsa	42.2	72	1	18	30	705	0	1.39	.96	18
Vinita	39.2	75	2	16	14	800	0	1.59	.90	18
Wynona	39.9	71	2	16	31	777	0	1.30	.61	18

WEST CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Bessie	42.8	76	10	14	30	690	0	.63	.30	24
Butler	41.4	78	10	14	30	731	0	.72	.32	25
Camargo	39.5	76	10	12	30	790	0	.68	.23	25
Cheyenne	42.3	75	10	11	30	703	0	.75	.32	25
Elk City	43.0	76	10	13	30	683	0	.66	.29	25
Erick	41.5	76	10	13	30	729	0	.86	.34	24
Putnam	40.9	72	10	12	30	747	0	.60	.20	25
Watonga	42.2	71	1	13	31	708	0	.59	.33	25
Weatherford	42.2	73	10	13	30	708	0	.44	.27	24

CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Acme	43.6	76	10	17	30	663	0	.98	.40	25
Bristow	41.5	73	1	17	31	730	0	1.00	.47	24
Chandler	43.0	73	1	17	30	682	0	1.72	.88	18
Chickasha	42.6	77	1	16	31	696	0	1.11	.38	25
El Reno	41.0	72	1	13	31	743	0	.64	.23	24
Guthrie	42.2	70	1	17	30	706	0	.80	.32	24
Kingfisher	40.6	70	1	16	31	756	0	.79	.52	24
Lake Carl Blac	39.6	70	1	13	31	787	0	.95	.34	18
Marena	41.4	69	1	16	30	732	0	.97	.36	18
Minco	43.3	74	1	15	30	672	0	.77	.50	25
Marshall	40.4	70	2	16	31	761	0	.75	.40	24
Norman	43.1	73	1	17	31	680	0	1.27	.47	25
Oilton	40.4	72	1	14	31	762	0	1.23	.66	18
OKC East	42.8	72	1	15	31	688	0	1.04	.46	24
Okemah	42.7	73	2	19	30	690	0	2.13	1.17	18
Perkins	41.8	71	1	17	30	***	***	1.16	.56	18
Seminole	43.8	75	11	18	30	657	0	1.84	.77	18
Shawnee	43.2	73	1	17	30	676	0	1.12	.56	25
Spencer	43.3	73	1	16	31	672	0	1.03	.54	25
Stillwater	40.5	71	1	15	31	759	0	.94	.34	18
Washington	43.9	75	1	16	31	655	0	1.12	.66	25
Yukon	42.5	71	1	15	30	698	0	.73	.41	25

EAST CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Cookson	42.8	73	2	20	26	690	1	2.93	.86	18
Eufaula	44.1	74	1	20	30	647	0	3.00	1.11	18
Haskell	42.2	74	1	19	14	706	0	2.19	1.28	18
Hectorville	43.4	72	2	18	30	668	0	1.47	.90	18
Holdenville	44.6	75	1	20	30	632	0	1.32	.52	25
McAlester	44.1	76	1	20	23	650	3	2.42	.73	2
Okmulgee	42.3	74	1	19	14	703	0	2.13	1.14	18
Sallisaw	43.0	75	2	21	14	681	0	1.41	.71	24
Stigler	43.5	76	2	21	14	666	0	1.12	.64	25
Stuart	44.8	75	1	20	30	627	1	1.66	.62	25
Tahlequah	41.8	73	2	20	30	720	0	2.81	1.00	18
Webbers Falls	42.0	75	1	18	14	713	0	2.17	.87	24
Westville	42.2	74	2	19	30	707	0	2.21	.85	18

SOUTHWEST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Altus	43.9	80	10	18	30	653	0	.91	.60	24
Apache	43.9	77	10	16	30	654	0	.92	.36	25
Fort Cobb	42.7	76	10	16	30	690	0	.62	.44	24
Grandfield	45.3	81	10	20	30	609	0	1.00	.55	24
Hinton	41.9	72	10	14	30	715	0	.45	.24	24
Hobart	42.9	78	10	15	30	684	0	.68	.44	24
Hollis	43.6	78	10	16	30	665	0	.70	.49	24
Mangum	43.0	81	10	16	30	682	0	.78	.44	24
Medicine Park	46.0	78	10	16	30	589	0	.80	.41	25
Tipton	44.8	83	10	18	30	627	0	1.01	.63	24
Walters	45.2	77	1	19	30	***	***	.86	.69	24

SOUTH CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Ada	44.5	78	11	17	23	635	0	1.37	.58	25
Ardmore	46.9	81	11	22	31	560	0	1.23	.84	24
Burneyville	46.2	85	11	16	23	585	1	1.10	.74	24
Byars	45.3	76	1	19	30	609	0	1.10	.67	25
Centrahoma	44.8	79	11	18	23	626	0	1.60	.91	24
Durant	47.4	80	11	22	30	546	1	1.38	1.05	24
Fittstown	44.6	78	11	17	23	634	0	1.34	.61	25
Ketchum Ranch	45.6	79	1	18	30	601	0	1.31	.52	24
Lane	45.6	80	11	21	23	602	1	1.43	1.16	24
Madill	46.5	82	10	21	23	572	0	1.32	.88	24
Newport	46.7	81	11	21	31	566	0	1.23	.89	24
Pauls Valley	45.0	78	1	20	30	620	0	1.01	.52	25
Ringling	46.3	80	1	20	30	581	0	1.10	.80	24
Sulphur	44.0	77	1	17	23	651	0	1.10	.54	25
Tishomingo	44.7	78	11	20	23	629	0	1.25	.87	24
Waurika	46.3	81	1	20	30	579	0	1.08	.81	24

SOUTHEAST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Antlers	44.9	81	11	19	23	624	0	1.78	1.41	24
Broken Bow	46.8	79	11	23	27	566	1	3.36	1.47	24
Clayton	45.1	75	1	22	23	616	0	1.96	.87	24
Cloudy	45.6	76	11	22	23	603	0	1.99	1.19	24
Hugo	47.3	80	11	24	31	550	0	1.57	1.10	24
Idabel	47.2	79	11	23	23	555	2	3.17	1.65	24
Mt Herman	45.4	74	1	22	23	608	2	3.38	1.53	24
Talihina	44.8	75	1	20	14	630	4	1.74	.56	25
Valliant	46.3	78	11	22	23	581	1	3.01	1.49	24
Wilburton	44.3	75	1	21	26	646	4	1.47	.63	25
Wister	42.7	77	2	17	14	692	0	2.21	.66	25

2023 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL IN INCHES

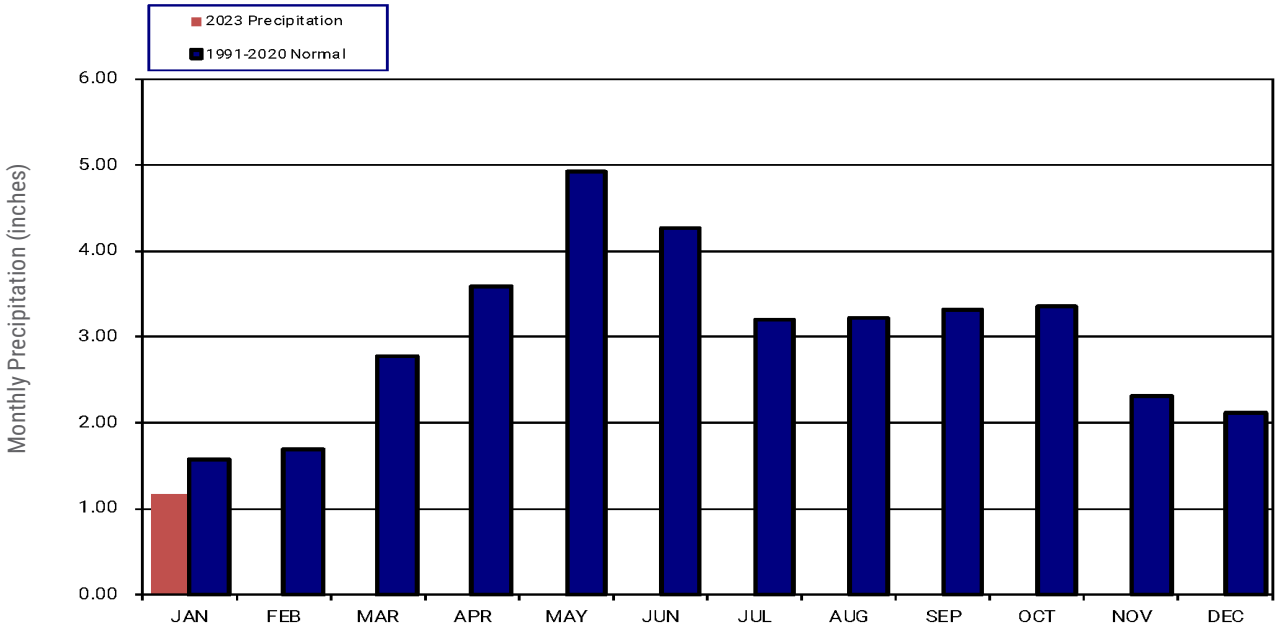


TABLE OF 2023 STATEWIDE PRECIPITATION MONTHLY TOTALS AND NORMALS IN INCHES

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2023	1.17	--	--	--	--	--	--	--	--	--	--	--
1991-2020	1.57	1.69	2.78	3.59	4.93	4.26	3.20	3.23	3.32	3.36	2.32	2.11

JANUARY 2023 MESONET PRECIPITATION COMPARISON

Climate Division	Precipitation (inches)	Departure from Normal (inches)	Rank since 1895	Wettest on Record (Year)	Driest on Record (Year)	Jan-22 (inches)
Panhandle	0.28	-0.29	51st Driest	1.94 (2017)	0.00 (1923)	0.11
North Central	0.86	-0.12	51st Wettest	4.16 (1949)	0.00 (1986)	0.12
Northeast	1.35	-0.37	64th Wettest	6.87 (1916)	0.01 (1986)	0.55
West Central	0.66	-0.22	64th Wettest	3.74 (1949)	0.00 (1976)	0.25
Central	1.09	-0.32	60th Driest	5.58 (1949)	0.00 (1986)	0.66
East Central	2.06	-0.36	65th Driest	11.21 (1916)	0.04 (1986)	1.13
Southwest	0.79	-0.26	63rd Wettest	4.48 (1949)	0.00 (1912)	0.52
South Central	1.25	-0.78	48th Driest	7.70 (1916)	0.03 (1986)	0.70
Southeast	2.33	-0.91	52nd Driest	11.13 (1949)	0.20 (1943)	1.98
Statewide	1.17	-0.40	58th Driest	5.35 (1949)	0.03 (1986)	0.65

2023 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL IN DEGREES FAHRENHEIT

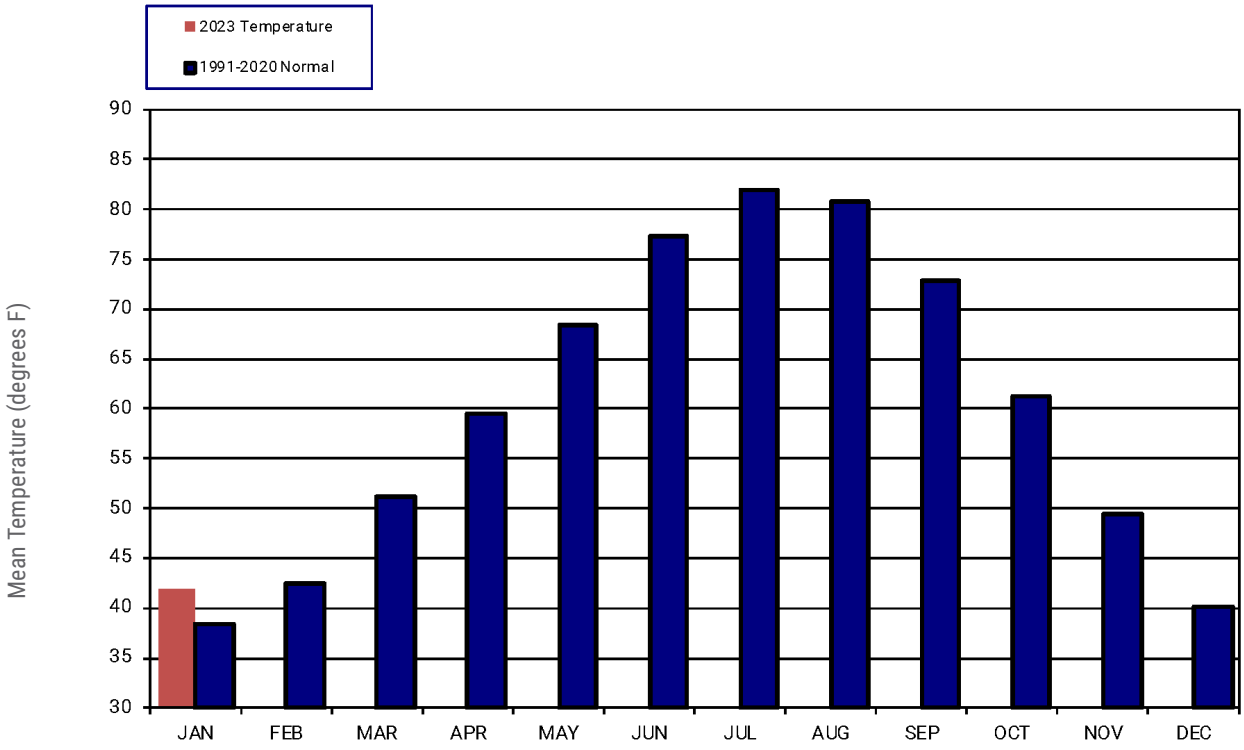


TABLE OF 2023 STATEWIDE TEMPERATURE MONTHLY TOTALS AND NORMALS IN DEGREES FAHRENHEIT

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2023	41.9	--	--	--	--	--	--	--	--	--	--	--
1991-2020	38.3	42.4	51.2	59.5	68.4	77.3	81.9	80.8	72.9	61.3	49.4	40.1

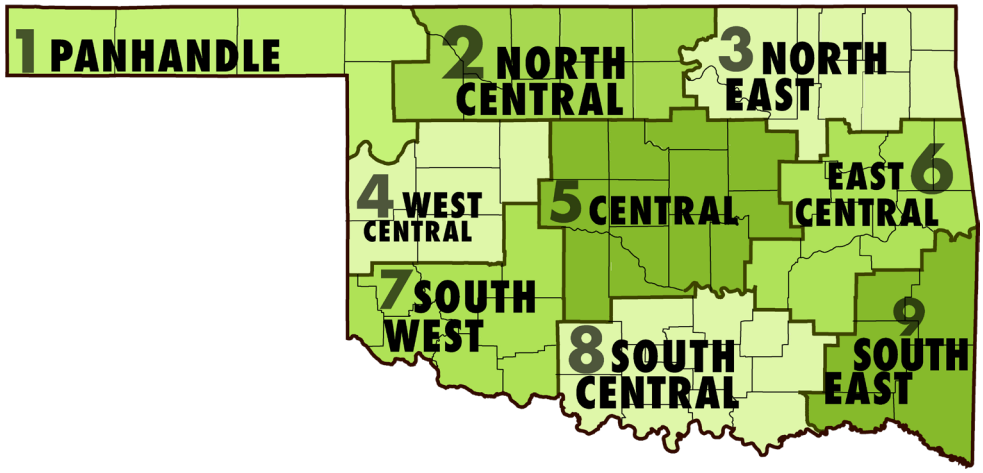
JANUARY 2023 MESONET TEMPERATURE COMPARISON

Climate Division	Average Temp (F)	Departure from Normal (F)	Rank since 1895	Hottest on Record (Year)	Coldest on Record (Year)	Jan-22 (F)
Panhandle	36.3	1.0	37th Warmest	42.9 (2006)	19.7 (1940)	34.0
North Central	39.0	3.2	15th Warmest	45.0 (2006)	18.8 (1940)	34.4
Northeast	40.5	4.1	13th Warmest	46.2 (2006)	20.6 (1940)	35.1
West Central	41.7	4.1	10th Warmest	46.1 (2006)	21.3 (1930)	36.3
Central	42.1	3.5	14th Warmest	47.7 (2006)	22.8 (1930)	37.3
East Central	43.2	4.0	14th Warmest	48.0 (1923)	24.8 (1918)	38.0
Southwest	43.8	3.7	13th Warmest	48.1 (2006)	23.6 (1930)	38.0
South Central	45.7	4.4	10th Warmest	49.7 (1923)	27.5 (1930)	39.8
Southeast	45.5	4.5	11th Warmest	48.7 (1907)	27.7 (1918)	40.2
Statewide	41.9	3.6	15th Warmest	46.8 (2006)	23.7 (1940)	36.9

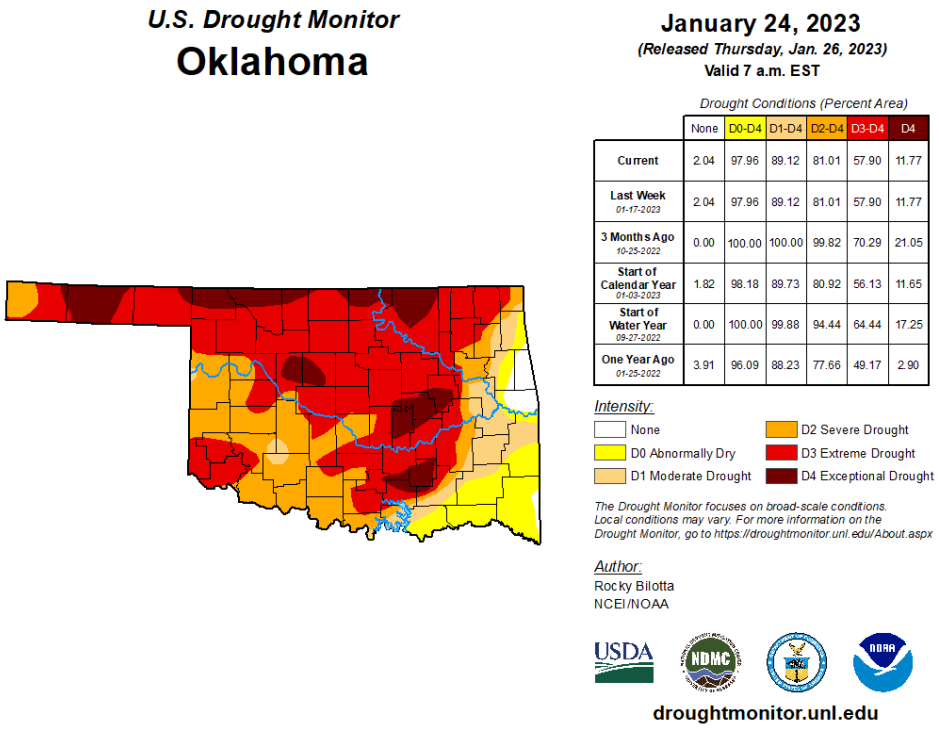
MESONET EXTREMES FOR JANUARY 2023

Climate Division	High Temp (F)	Day	Station	Low Temp (F)	Day	Station	High Monthly Rainfall (inches)	Station	High Daily Rainfall (inches)	Day	Station
Panhandle	75	6th	Arnett	2	31st	Eva	0.51	Arnett	0.21	24th	Buffalo
North Central	75	10th	Woodward	10	30th	May Ranch	1.24	Newkirk	0.46	24th	Blackwell
Northeast	75	2nd	Jay	13	31st	Foraker	2.15	Jay	0.97	18th	Porter
West Central	78	10th	Butler	11	30th	Cheyenne	0.86	Erick	0.34	24th	Eric
Central	77	1st	Chickasha	13	31st	Lake Carl Blackwell	2.13	Okemah	1.17	18th	Okemah
East Central	76	1st	McAlester	18	30th	Hectorville	3.00	Eufaula	1.28	18th	Haskell
Southwest	83	10th	Tipton	14	30th	Hinton	1.01	Tipton	0.69	24th	Walters
South Central	85	11th	Burneyville	16	23rd	Burneyville	1.60	Centrahoma	1.16	24th	Lane
Southeast	81	11th	Antlers	17	14th	Wister	3.38	Mt Herman	1.65	24th	Idabel
Statewide	**85**	**11th**	**Burneyville**	**2**	**31st**	**Eva**	**3.38**	**Mt Herman**	**1.65**	**24th**	**Idabel**

Oklahoma Climate Divisions



Climate Division	Counties
Panhandle - Division 1	Beaver, Cimarron, Ellis, Harper, and Texas
North Central - Division 2	Alfalfa, Garfield, Grant, Kay, Major, Noble, Woods, and Woodward
Northeast - Division 3	Craig, Delaware, Mayes, Nowata, Osage, Ottawa, Pawnee, Rogers, Tulsa, and Washington
West Central - Division 4	Beckham, Blaine, Custer, Dewey, Roger Mills, and Washita
Central - Division 5	Canadian, Cleveland, Creek, Grady, Kingfisher, Lincoln, Logan, McClain, Okfuskee, Oklahoma, Payne, Pottawatomie, and Seminole
East Central - Division 6	Adair, Cherokee, Haskell, Hughes, McIntosh, Muskogee, Okmulgee, Pittsburg, Sequoyah, and Wagoner
Southwest - Division 7	Caddo, Comanche, Cotton, Greer, Harmon, Jackson, Kiowa, and Tillman
South Central - Division 8	Atoka, Bryan, Carter, Coal, Garvin, Jefferson, Johnston, Love, Marshall, Murray, Pontotoc, and Stephens
Southeast - Division 9	Choctaw, Latimer, LeFlore, McCurtain, and Pushmataha



Drought condition intensity levels used for the US Drought Monitor are None, D0 Abnormally Dry, D1 Moderate Drought, D2 Severe Drought, D3 Extreme Drought, and D4 Exceptional Drought.

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor go to https://droughtmonitor.unl.edu/About.aspx.

U.S. DROUGHT MONITOR FOR OKLAHOMA DROUGHT CONDITIONS (PERCENT AREA)

JANUARY 24, 2022 (RELEASED THURSDAY, JAN. 26, 2023)

VALID 7 A.M. EST

Period	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	2.04	97.96	89.12	81.01	57.90	11.77
Last Week 12-20-2022	2.04	97.96	89.12	81.01	57.90	11.77
3 Months Ago 09-27-2022	0.00	100.00	100.00	99.82	70.29	21.05
Start of Current Year 01-04-2022	1.82	98.18	89.73	80.92	56.13	11.65
Start of Water Year 09-27-2022	0.00	100.00	99.88	94.44	64.44	17.25
One Year Ago 12-28-2021	3.91	96.09	88.23	49.17	49.17	2.90

INTERPRETATION INFORMATION

MEAN DAILY TEMPERATURE: Calculated from an average of the daily maximum and minimum temperatures. Daily averages are summed for each day, and then divided by the number of valid data points – typically the number of days in the month. Although this may differ from the "true" daily average, it is consistent with historical methods of observation and comparable to the normals and extremes for stations and regions of the state.

DEGREE DAYS: Degree Days are calculated each day of the month for which there is a temperature report and the mean temperature for the day is less than (Heating Degree Days) or greater than (Cooling Degree Days) 65 degrees. Daily values are summed to arrive at a monthly total. HDD/CDD are qualitative measures of how much heating/cooling was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value.

ADDITIONAL RESOURCES

SUNRISE / SUNSET TABLES
U.S. Naval Observatory: https://aa.usno.navy.mil/data/

SEVERE STORM REPORTS
Storm Prediction Center: https://spc.noaa.gov/climo/

National Centers for Environmental Information:
https://www.ncdc.noaa.gov/stormevents/

SEASONAL OUTLOOKS
Climate Prediction Center:
https://www.cpc.ncep.noaa.gov/products/OUTLOOKS_index.php/

CLIMATE CALENDARS AND OTHER LOCAL WEATHER AND CLIMATE INFORMATION
Oklahoma Climatological Survey:
https://climate.ok.gov/

OKLAHOMA CLIMATOLOGICAL SURVEY

Oklahoma Climatological Survey is the State Climate Office for Oklahoma

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