Oklahoma Monthly Climate Summary

DECEMBER 2023

OKLAHOMA CLIMATOLOGICAL SURVEY

December was unusually warm across all of Oklahoma, and uncommonly wet across the northwestern third. A prolonged absence of Arctic air led to the state's fourth warmest December since records began in 1895, and contributed to 2023's rank as the 10th warmest calendar year. The month continued a string of Decembers with above normal temperatures in the last decade. The Decembers of 2019 and 2015 ranked as the 13th and sixth warmest across the state, respectively. In 2021, we witnessed an unprecedented event as December marked the pinnacle of extremes, finishing over 10 degrees above the normal

December 2023 Statewide Extremes

Description	Extreme	Station	Day
High Temperature	80°F	Beaver, Burneyville	7, 8
Low Temperature	10°F	Kenton	2
High Precipitation	4.99 in.	Cookson	--
Low Precipitation	0.83 in.	Kenton	--

temperature. This surpassed the previous record for the warmest December, set in 1933, by more than 5 degrees." The only outlier in the past 10 years was December 2016, which stood at half a degree below normal. December moisture surpluses amounted to 200-400% of normal, while deficits reigned to the southeast. A storm system from Dec. 13-15 deposited 2-4 inches of snow across the Panhandle, with other wintry weather resulting in mostly light totals. Severe weather remained almost entirely absent in December, with no confirmed tornadoes. The preliminary tornado total for 2023 stands at 74, significantly higher than the 1950-2022 average of 57.3 twisters.

The statewide average temperature for the month concluded at 44.6 degrees, surpassing the normal by 4.5 degrees. December's highest temperature, reaching 80 degrees, was recorded in Beaver on Dec. 7 and again in Burneyville the following day. Kenton experienced the month's lowest temperature, dropping to 10 degrees on the second. In 2023, the statewide average temperature stood at 62 degrees, exceeding the normal by 1.6 degrees. The highest recorded

December 2023 Statewide Statistics

Temperature

Period	Average	Departure	Rank (1895-2023)
Month (December)	44.6°F	4.5°F	4th Warmest
Year-to-Date (Jan-Dec)	62.0°F	1.6°F	10th Warmest

Precipitation

Period	Total	Departure	Rank (1895-2023)
Month (December)	2.62 in.	0.51 in.	25th Wettest
Year-to-Date (Jan-Dec)	36.23 in.	-0.13 in.	48th Wettest

Departure from 30-year normal

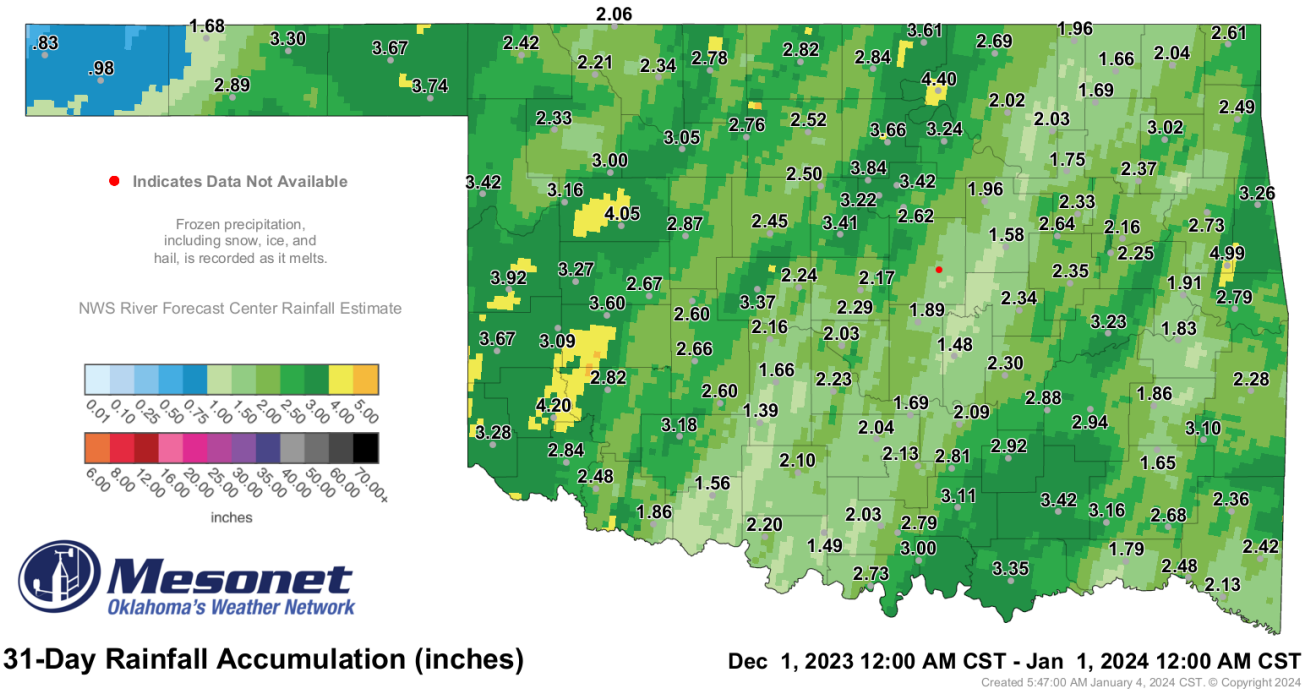
temperature for 2023 was 114 degrees in Grandfield on Aug. 17, while the lowest was minus one degree in Kenton on Feb. 17.

The statewide average precipitation total for the month reached 2.62 inches, exceeding the normal by 0.51 inches and ranking as the 25th wettest December since records began in 1895. The western half of the

state experienced a significant surplus of 1-3 inches, while the eastern half largely faced deficits of around an inch. The Panhandle enjoyed its third wettest December on record, boasting an average surplus of 1.71 inches, and the west-central region's surplus of 2.1 inches ranked their month as the seventh wettest. The southeast fared the worst, marking their 43rd driest December with a deficit of 1.89 inches. The Mesonet site at Cookson led the state with 4.99 inches, and another 34 sites recorded at least 3 inches for the month. Kenton brought up the rear with 0.83 inches. In 2023, Oklahoma finished as the 48th wettest year on record, with a statewide average of 36.23 inches, falling short of normal by 0.13 inches. The Panhandle once again performed exceptionally well with an average of 27.12 inches, surpassing the normal by 6.97 inches and ranking as their sixth wettest year on record. The Mt. Herman Mesonet site led 2023's totals at 65.72 inches, while Boise City had the lowest total with 16.87 inches.

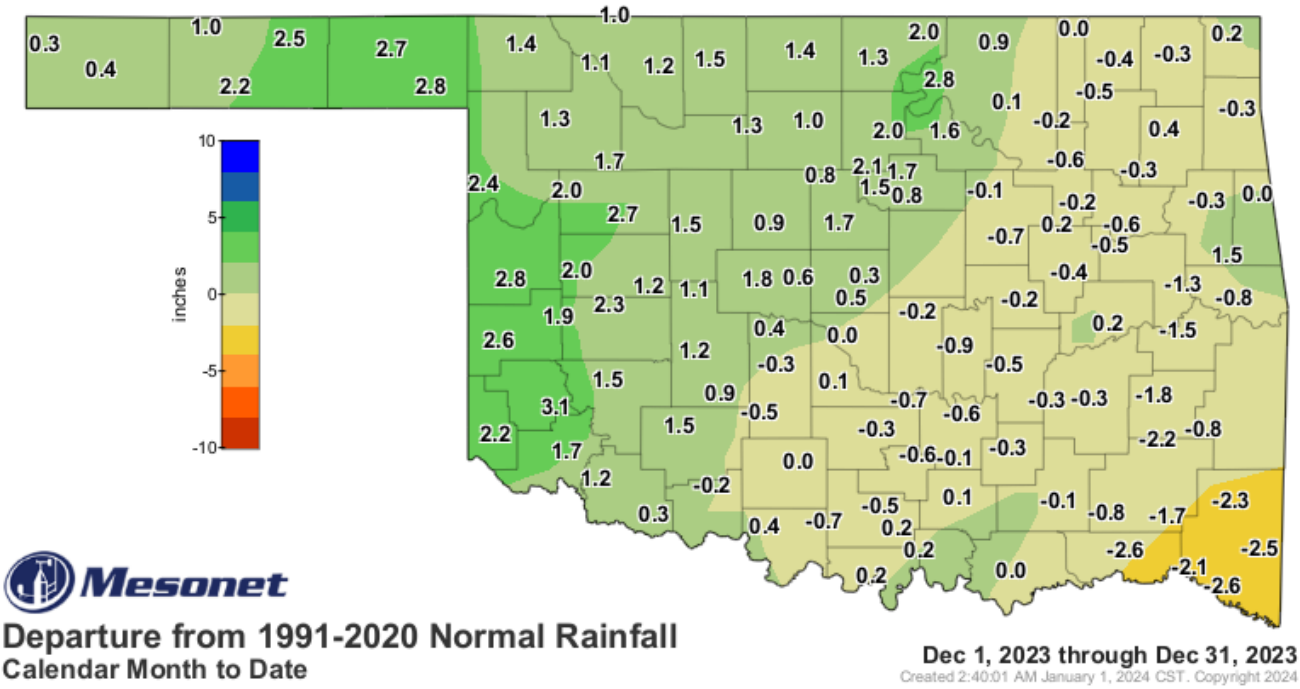
Drought coverage in the state decreased from 34% at the end of November to 22% at the close of December, as reported by the U.S. Drought Monitor. During the same period, the extent of severe and extreme drought reduced from 11% to 3%. The January outlooks from the Climate Prediction Center indicate increased odds of below-normal temperatures across all regions except far southeastern Oklahoma, with above-normal precipitation expected across the entire state. Despite the potential for increased precipitation, CPC's drought outlook anticipates persisting drought conditions through January in areas where it currently exists. The CPC predicts El Niño to continue throughout the winter before transitioning to neutral conditions in the spring. This ocean-atmosphere coupling phenomenon can bring cool and wet conditions to the Southern Tier of the United States, including Oklahoma, during the cool season.

DECEMBER 2023 OBSERVED PRECIPITATION



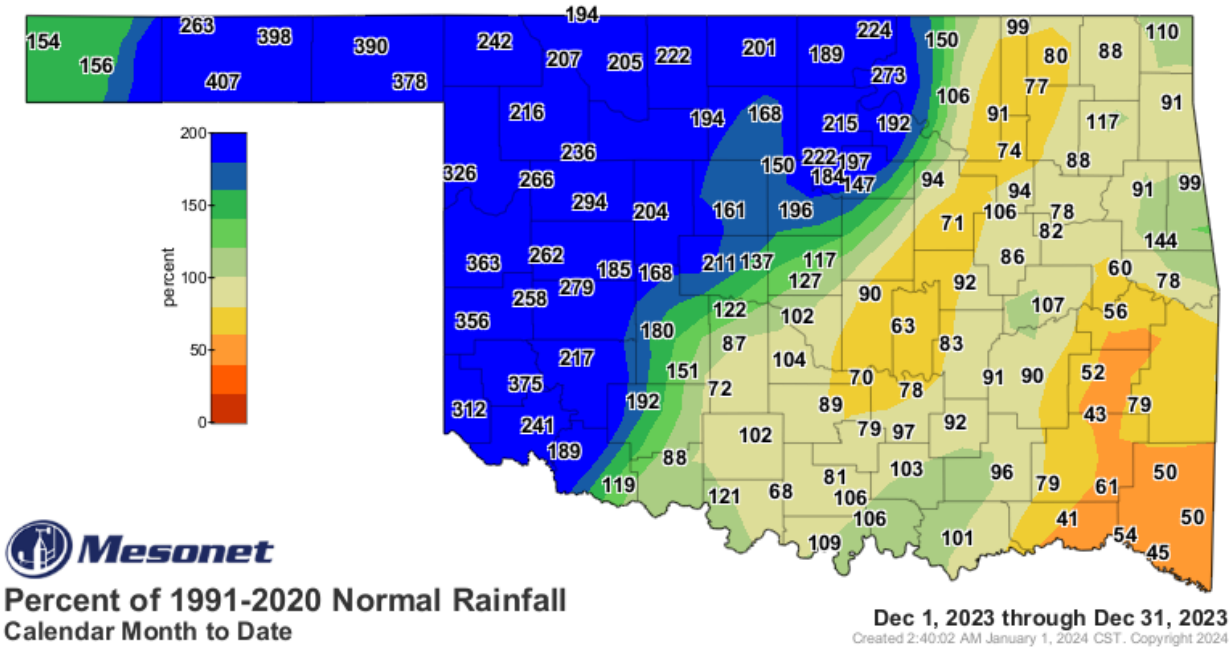
The accumulated rainfall for December ranged from .83 inches at Kenton to 4.99 inches at Cookson. Most sites received at least 2 inches.

DECEMBER 2023 DEPARTURE FROM NORMAL PRECIPITATION



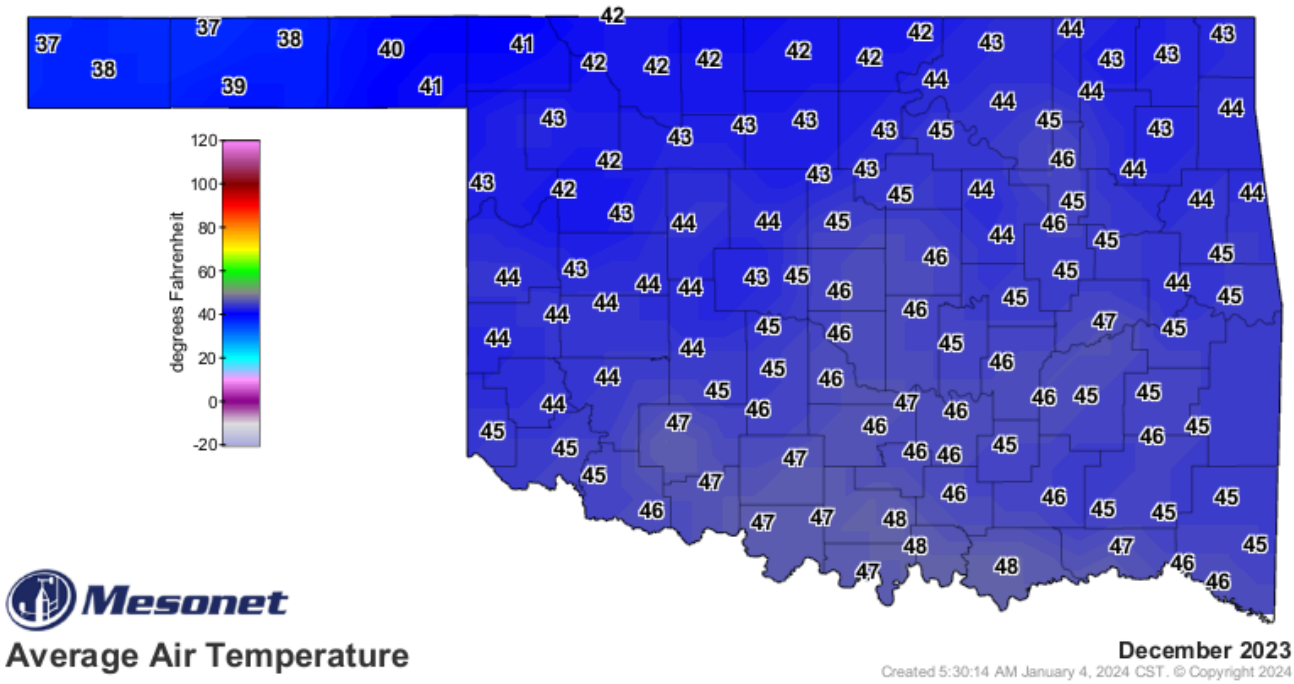
Comparing the December rainfall accumulation to the 1990 to 2020 normal rainfall, central and western counties were above normal by as much as 3.1 inch at Mangum. Most sites ranged from 0.5 inches below to 1.5 inches above normal. The driest area was located in eastern Choctaw County and all of McCurtain County with values from 2.1 inches to 2.6 inches below normal.

DECEMBER 2023 PERCENT OF NORMAL PRECIPITATION



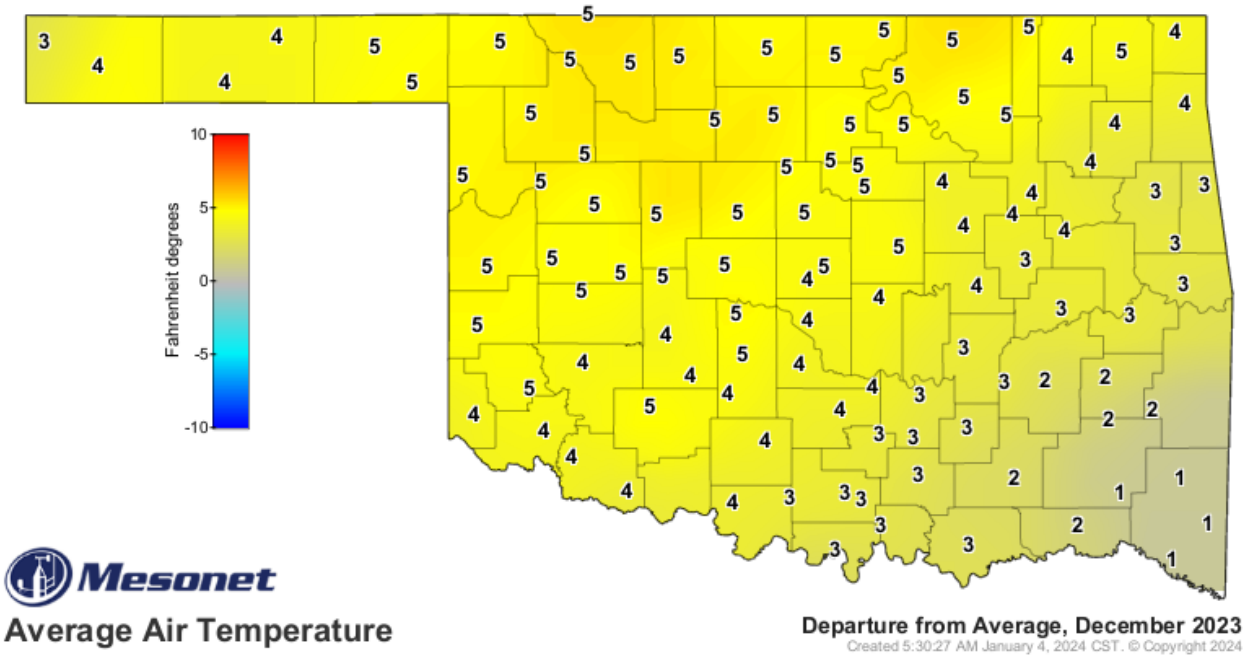
The Panhandle percent of normal ranged from 154% in Cimarron County to 407% in Texas County. The north central to southwestern counties received more than their normal rainfall ranging from near 100% of normal in the interior parts of the state to more than 300% of normal moving west towards the Panhandle. From Copan to Shawnee to Ringling the eastern counties were much drier ranging from 95% to 50%. Hugo was the driest at only 41% of normal rainfall.

DECEMBER AVERAGE TEMPERATURE IN DEGREES FAHRENHEIT



Temperatures ranged from high 30s in the panhandle to the mid 40's in central and southern counties. Lowest average temperature was 37°F at Kenton and Eva and the highest average temperature was 48°F at Ardmore, Durant, and Madill.

DECEMBER 2023 DEPARTURE FROM NORMAL TEMPERATURE



The temperature departure from normal ranged from 1°F in the southeast to 5°F in central and western Oklahoma. The Panhandle ranged from 3°F in Cimarron County to 5°F in Beaver County.

MESONET MONTHLY SUMMARY FOR DECEMBER 2023

PANHANDLE

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Arnett	43.4	79	7	18	10	670	0	3.42	2.10	14
Goodwell	40.8	79	7	15	1	751	0	2.89	1.30	13
Beaver	40.9	80	7	14	10	748	0	3.67	2.50	14
Hooker	40.0	79	7	14	10	774	0	3.30	1.66	14
Boise City	39.4	75	7	16	2	794	0	.98	.53	13
Kenton	38.3	75	7	10	2	826	0	.83	.36	14
Buffalo	41.8	77	7	21	9	***	***	2.42	1.78	14
Slapout	42.5	78	7	19	10	698	0	3.74	2.69	14
Eva	38.7	77	7	12	1	814	0	1.68	1.01	13

NORTH CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Alva	43.0	73	7	20	10	681	0	2.34	.96	14
May Ranch	43.3	77	7	23	10	673	0	2.06	1.09	14
Blackwell	42.1	69	7	20	10	710	0	2.84	1.61	24
Medford	42.2	68	7	19	10	707	0	2.82	1.31	15
Breckinridge	42.8	68	7	20	10	688	0	2.52	1.18	24
Newkirk	42.5	69	7	21	10	698	0	3.61	2.32	24
Cherokee	42.8	70	7	22	10	687	0	2.78	1.21	23
Red Rock	43.4	71	7	19	10	671	0	3.66	2.55	24
Fairview	43.7	71	7	20	10	661	0	3.05	1.12	23
Seiling	43.4	72	7	17	10	670	0	3.00	1.19	23
Freedom	42.8	76	7	18	10	688	0	2.21	1.27	14
Woodward	43.8	77	7	21	10	657	0	2.33	1.33	14
Lahoma	43.2	69	7	21	10	676	0	2.76	.95	15

NORTHEAST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Bixby	45.1	74	8	22	30	617	0	2.33	1.45	24
Pawnee	44.7	71	7	21	10	630	0	3.24	1.93	24
Burbank	43.4	70	7	20	10	669	0	4.40	2.83	24
Porter	45.5	72	8	24	19	604	0	2.16	1.26	24
Copan	43.8	69	8	23	10	657	0	1.96	.97	24
Pryor	43.8	69	7	19	19	658	0	3.02	1.45	24
Foraker	43.3	70	7	22	10	671	0	2.69	1.78	24
Skiatook	45.3	69	8	26	10	610	0	2.03	1.25	24
Inola	44.0	70	8	20	19	652	0	2.37	1.10	24
Talala	43.9	69	7	22	10	656	0	1.69	1.10	24
Jay	44.3	68	7	22	19	642	0	2.49	.87	24
Tulsa	46.1	72	8	27	19	585	0	1.75	1.04	24
Miami	43.6	68	7	21	19	663	0	2.61	.99	24
Vinita	43.1	68	7	19	19	679	0	2.04	1.02	24
Nowata	42.9	69	7	19	19	685	0	1.66	1.02	24
Wynona	44.3	70	7	22	10	642	0	2.02	1.03	24

WEST CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Bessie	45.0	72	7	23	10	619	0	3.60	1.65	23
Erick	44.8	74	7	22	10	625	0	3.67	1.46	13
Butler	44.3	74	7	18	10	643	0	3.27	1.25	14
Putnam	43.8	70	17	21	10	657	0	4.05	2.05	23
Camargo	43.2	74	7	18	10	676	0	3.16	1.35	14
Watonga	45.0	70	17	25	10	619	0	2.87	1.04	23
Cheyenne	45.4	74	7	27	10	608	0	3.92	1.49	23
Weatherford	44.1	70	17	20	10	647	0	2.67	1.02	23
Elk City	45.1	73	7	21	10	616	0	3.09	1.31	14

CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Acme	45.9	69	7	21	10	594	0	1.39	1.03	15
Norman	46.1	70	8	23	10	586	0	2.03	1.07	24
Bristow	44.8	75	8	21	30	628	0	1.58	.84	24
Oilton	44.2	71	8	22	11	645	0	1.96	1.10	24
Lake Carl Blac	43.4	70	7	20	11	670	0	3.84	2.64	24
OKC East	45.9	69	7	25	30	594	0	2.29	1.18	24
Chandler	46.4	73	8	24	10	***	***	1.74	.88	24
Okemah	45.2	74	8	22	30	613	0	2.34	1.20	24
Chickasha	45.3	71	7	21	30	609	0	1.66	1.00	15
Perkins	45.3	70	7	22	10	611	0	2.62	1.60	24
El Reno	43.4	69	7	20	10	668	0	3.37	1.72	24
Seminole	46.0	75	8	25	19	589	0	1.48	.75	24
Guthrie	45.6	70	7	21	10	601	0	3.41	2.24	24
Shawnee	46.2	73	8	27	10	583	0	1.89	1.11	24
Kingfisher	44.1	68	22	23	10	648	0	2.45	1.07	15
Spencer	46.3	69	8	22	10	581	0	2.17	1.25	24
Marena	44.9	70	7	22	10	622	0	3.22	2.08	24
Stillwater	44.7	70	7	23	11	631	0	3.42	2.25	24
Minco	45.4	69	7	25	26	608	0	2.16	1.02	15
Washington	46.2	73	8	24	10	581	0	2.23	1.22	24
Marshall	43.8	69	7	21	10	656	0	2.50	1.18	24
Yukon	45.2	68	7	24	10	613	0	2.24	1.13	15

EAST CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Cookson	44.7	67	8	23	30	630	0	4.99	4.31	24
Sallisaw	45.0	69	23	21	30	619	0	2.79	2.17	24
Eufaula	46.6	73	8	27	30	570	0	3.23	1.73	24
Stigler	45.7	71	8	23	19	597	0	1.83	1.09	24
Haskell	44.6	73	8	22	30	631	0	2.25	1.32	24
Stuart	46.5	73	8	25	19	573	0	2.88	1.89	24
Hectorville	46.1	75	8	26	29	586	0	2.64	1.57	24
Tahlequah	43.9	67	7	20	30	655	0	2.73	1.07	24
Holdenville	46.2	74	8	27	19	584	0	2.30	1.17	24
Webbers Falls	44.2	71	8	22	30	645	0	1.91	1.28	24
McAlester	45.8	74	8	22	30	594	0	2.94	1.69	24
Westville	44.1	66	7	23	30	647	0	3.26	2.14	24
Okmulgee	45.1	74	8	21	30	617	0	2.35	1.36	24

SOUTHWEST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Altus	46.3	75	7	21	10	580	0	2.84	1.14	14
Hollis	45.7	76	7	20	10	598	0	3.28	1.72	13
Apache	45.4	70	7	21	10	608	0	2.60	.95	15
Mangum	45.1	75	7	18	10	617	0	4.20	1.44	23
Fort Cobb	44.7	72	7	21	10	629	0	2.66	.86	24
Medicine Park	47.5	71	7	26	26	543	0	3.18	.89	24
Grandfield	46.8	75	7	22	10	563	0	1.86	.76	15
Tipton	46.3	75	7	19	10	580	0	2.48	1.11	14
Hinton	44.3	70	7	20	10	641	0	2.60	.83	14
Walters	46.9	71	7	24	10	563	0	1.56	.82	15
Hobart	45.2	73	7	20	10	615	0	2.82	1.08	14

SOUTH CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Ada	46.2	76	8	25	26	582	0	2.09	1.25	24
Lane	45.9	75	8	23	30	592	0	3.42	2.28	24
Ardmore	47.9	78	8	25	26	530	0	2.79	1.29	24
Madill	47.8	77	8	23	30	532	0	3.00	1.71	24
Burneyville	47.3	80	8	20	26	548	0	2.73	1.25	24
Newport	47.8	78	8	25	26	533	0	2.03	.88	24
Byars	47.0	74	8	26	10	557	0	1.69	.87	24
Pauls Valley	46.8	75	8	24	30	563	0	2.04	1.03	24
Centrahoma	45.6	74	8	22	19	603	0	2.92	1.93	24
Ringling	47.6	77	8	23	26	538	0	1.49	.64	15
Durant	47.9	76	8	26	26	530	1	3.35	1.62	24
Sulphur	45.7	76	8	20	30	600	0	2.13	1.01	24
Fittstown	46.0	74	8	23	26	588	0	2.81	1.75	24
Tishomingo	46.0	75	8	22	26	590	0	3.11	1.88	24
Ketchum Ranch	47.4	73	8	23	10	547	0	2.10	1.10	24
Waurika	47.9	75	8	22	26	529	0	2.20	1.25	24

SOUTHEAST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Antlers	45.6	76	8	22	26	600	0	3.16	1.63	24
Mt Herman	45.1	65	8	23	30	618	0	2.36	1.41	24
Broken Bow	46.2	68	8	22	30	584	0	2.42	1.69	24
Talihina	45.7	69	8	20	30	597	0	3.10	2.00	24
Clayton	46.0	71	8	22	30	590	0	1.65	.77	24
Valliant	45.9	73	8	22	30	593	0	2.48	1.75	24
Cloudy	45.5	72	8	23	30	603	0	2.68	1.66	24
Wilburton	45.8	71	8	21	30	594	0	1.86	1.02	24
Hugo	47.3	76	8	26	26	548	0	1.79	1.04	24
Wister	***	***	***	***	***	***	***	***	1.38	24
Idabel	46.6	72	8	24	30	570	0	2.13	1.47	24

2023 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL IN INCHES

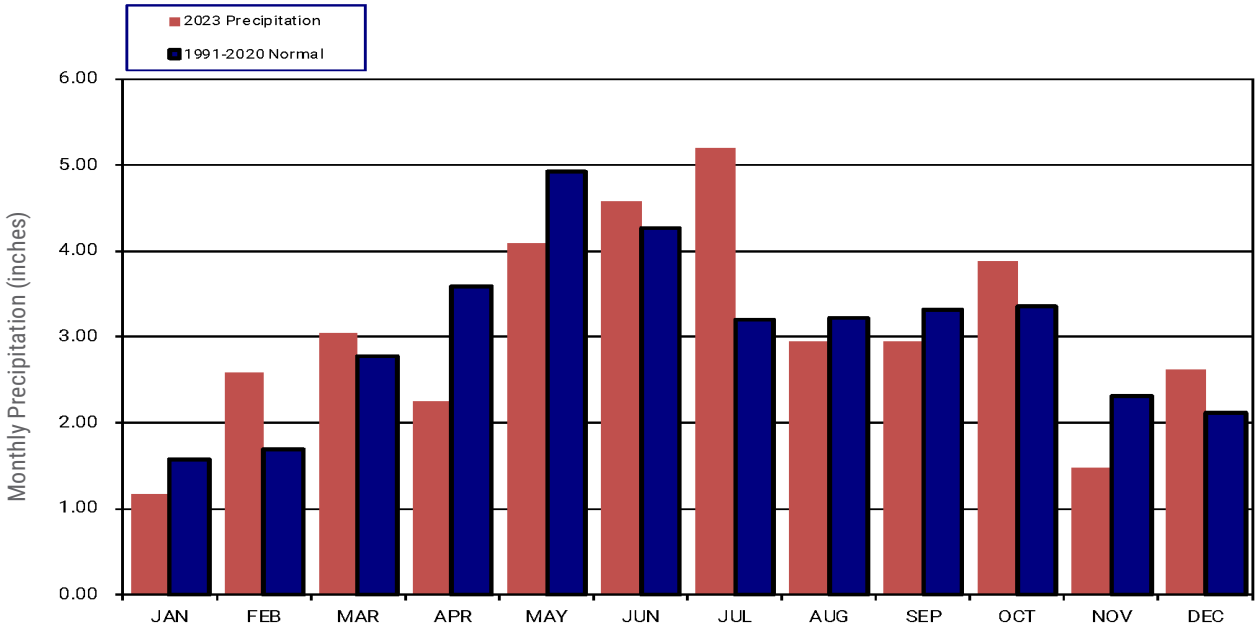


TABLE OF 2023 STATEWIDE PRECIPITATION MONTHLY TOTALS AND NORMALS IN INCHES

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2023	1.17	2.58	3.04	2.26	4.09	4.58	5.19	2.95	2.95	3.88	1.48	2.62
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

DECEMBER 2023 MESONET PRECIPITATION COMPARISON

Climate Division	Precipitation (inches)	Departure from Normal (inches)	Rank since 1895	Wettest on Record (Year)	Driest on Record (Year)	Dec-22 (inches)
Panhandle	2.55	1.71	3rd Wettest	3.28 (2006)	0.00 (1976)	0.28
North Central	2.77	1.42	11th Wettest	3.59 (1984)	0.01 (1950)	1.31
Northeast	2.40	0.14	34th Wettest	7.61 (1895)	0.14 (1950)	2.50
West Central	3.37	2.10	7th Wettest	4.04 (1911)	0.00 (1908)	1.10
Central	2.39	0.42	27th Wettest	6.45 (1984)	0.03 (1908)	2.19
East Central	2.78	-0.35	52nd Wettest	11.09 (2015)	0.20 (1917)	3.14
Southwest	2.73	1.30	14th Wettest	5.65 (1911)	0.00 (1908)	1.48
South Central	2.49	-0.23	45th Wettest	6.97 (1991)	0.06 (1917)	1.96
Southeast	2.36	-1.89	43rd Driest	12.32 (2015)	0.19 (1917)	3.24
Statewide	2.62	0.51	25th Wettest	5.54 (2015)	0.09 (1950)	1.91

2023 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL IN DEGREES FAHRENHEIT

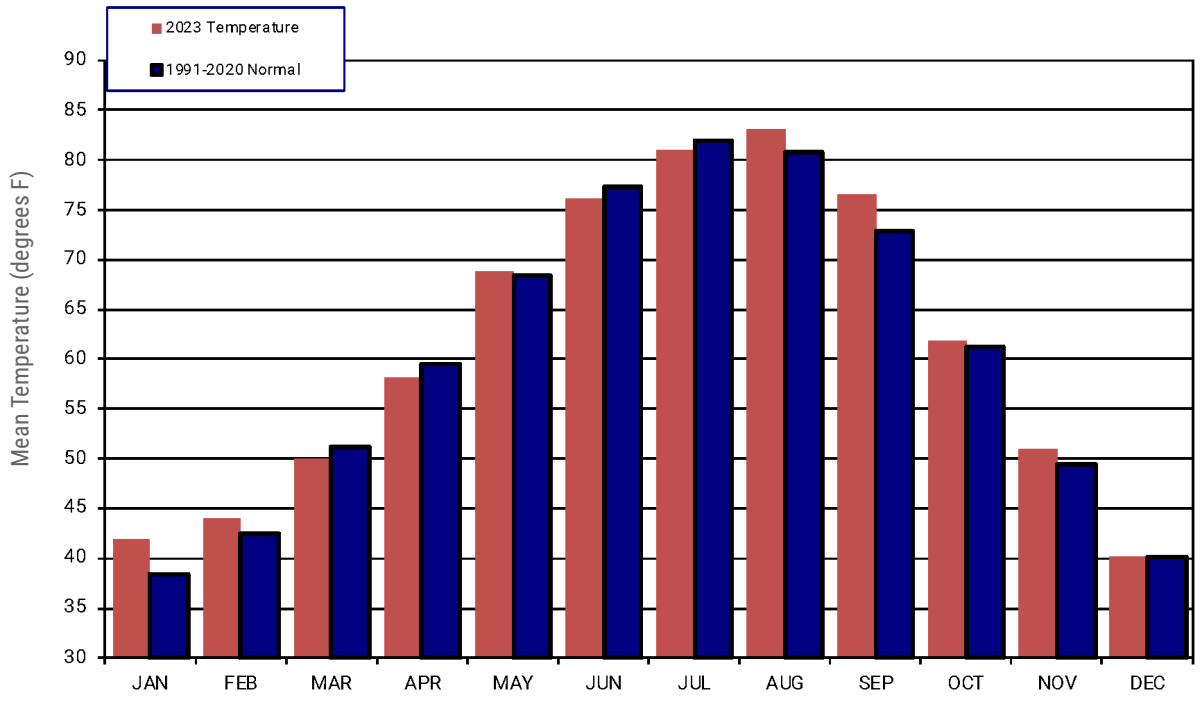


TABLE OF 2023 STATEWIDE TEMPERATURE MONTHLY TOTALS AND NORMALS IN DEGREES FAHRENHEIT

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2023	41.9	44.1	50.0	58.1	68.8	76.2	81.0	83.1	76.6	61.9	51.0	40.1
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

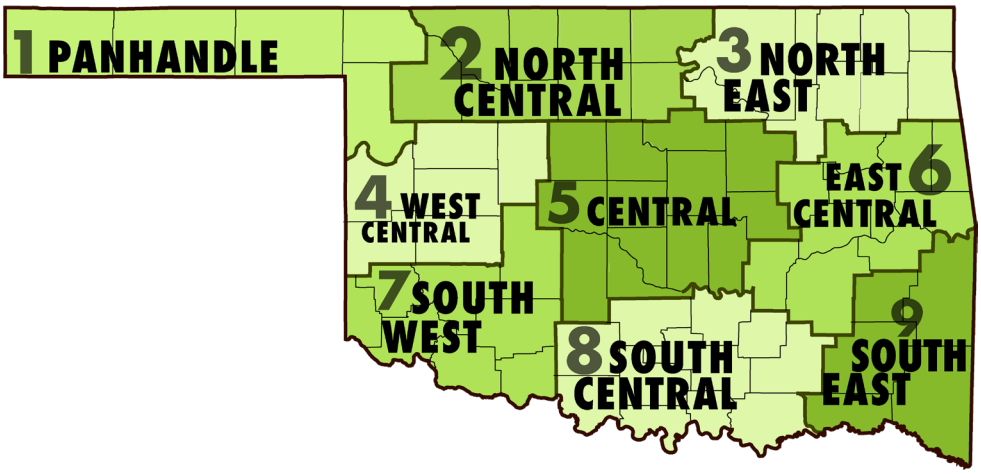
DECEMBER 2023 MESONET TEMPERATURE COMPARISON

Climate Division	Average Temp (F)	Departure from Normal (F)	Rank since 1895	Hottest on Record (Year)	Coldest on Record (Year)	Dec-22 (F)
Panhandle	40.6	4.7	5th Warmest	44.4 (2021)	22.6 (1983)	35.0
North Central	43.0	5.5	2nd Warmest	47.0 (2021)	21.5 (1983)	36.5
Northeast	44.2	5.0	7th Warmest	49.8 (2021)	23.6 (1983)	38.8
West Central	44.5	5.7	2nd Warmest	49.0 (2021)	24.1 (1983)	39.0
Central	45.2	4.6	5th Warmest	51.2 (2021)	25.5 (1983)	40.4
East Central	45.3	3.5	11th Warmest	53.0 (2021)	27.6 (1983)	42.3
Southwest	45.8	4.4	4th Warmest	51.6 (2021)	27.4 (1983)	42.1
South Central	46.9	3.7	12th Warmest	54.1 (2021)	29.4 (1983)	43.4
Southeast	46.0	2.8	18th Warmest	54.2 (2021)	30.4 (1983)	44.6
Statewide	**44.6**	**4.5**	**4th Warmest**	**50.4 (2021)**	**25.7 (1983)**	**40.1**

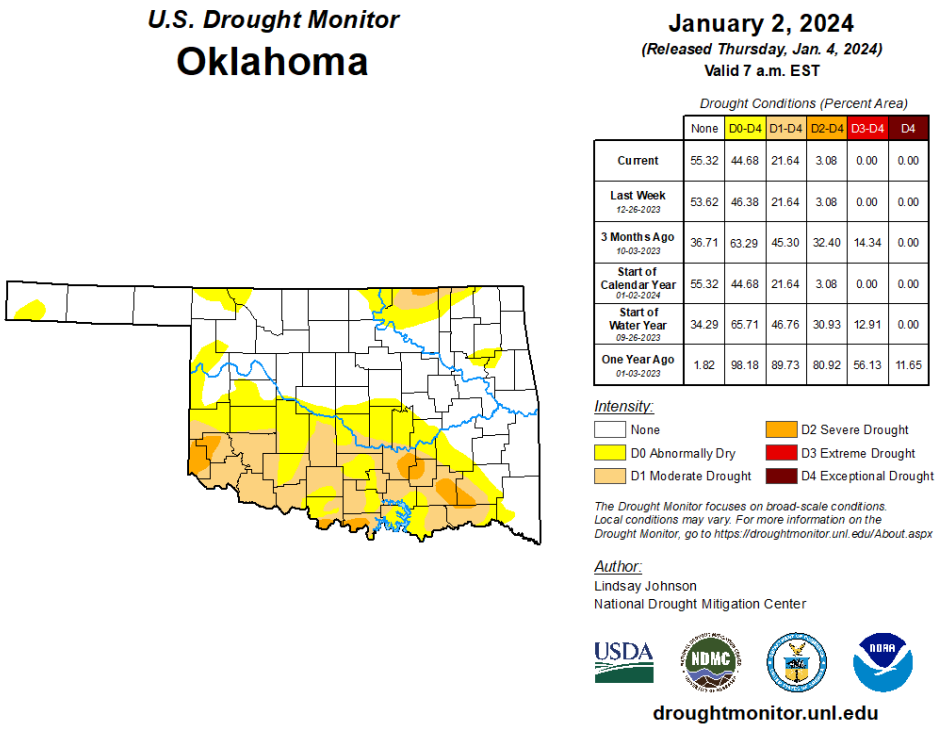
MESONET EXTREMES FOR DECEMBER 2023

Climate Division	High Temp (F)	Day	Station	Low Temp (F)	Day	Station	High Monthly Rainfall (inches)	Station	High Daily Rainfall (inches)	Day	Station
Panhandle	80	7th	Beaver	10	2nd	Kenton	3.74	Slapout	2.69	14th	Slapout
North Central	77	7th	May Ranch	17	10th	Seiling	3.66	Red Rock	2.55	24th	Red Rock
Northeast	74	8th	Bixby	19	19th	Nowata	4.40	Burbank	2.83	24th	Burbank
West Central	74	7th	Erick	18	10th	Camargo	4.05	Putnam	2.05	23rd	Putnam
Central	75	8th	Seminole	20	10th	El Reno	3.84	Lake Carl Blackwell	2.64	24th	Lake Carl Blackwell
East Central	75	8th	Hectorville	20	30th	Tahlequah	4.99	Cookson	4.31	24th	Cookson
Southwest	76	7th	Hollis	18	10th	Mangum	4.20	Mangum	1.72	13th	Hollis
South Central	80	8th	Burneyville	20	30th	Sulphur	3.42	Lane	2.28	24th	Lane
Southeast	76	8th	Antlers	20	30th	Talihina	3.16	Antlers	2.00	24th	Talihina
Statewide	**80**	**8th**	**Burneyville**	**10**	**2nd**	**Kenton**	**4.99**	**Cookson**	**4.31**	**24th**	**Cookson**

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 2, 2024 (RELEASED THURSDAY, JAN. 4, 2024) VALID 7 A.M. EST

Period	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	53.32	44.68	21.64	3.08	0.00	0.00
Last Week 12-26-2023	53.62	46.38	21.64	3.08	0.00	0.00-
3 Months Ago 10-03-2023	36.71	63.29	45.30	32.40	14.34	0.00
Start of Current Year 01-02-2024	55.32	44.68	21.64	3.08	0.00	0.00
Start of Water Year 09-26-2023	34.29	65.71	46.76	30.93	12.91	0.00
One Year Ago 01-03-2023	1.82	98.18	89.73	80.92	56.13-	11.65

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

Dr. Kevin Kloesel Director
Dr. Chris Fiebrich Associate Director

EDITOR
Gary D. McManus State Climatologist

CONTENT AND LAYOUT ASSISTANT
Andrea Dawn Melvin Outreach Program Manager, K20

For more information, contact:
Oklahoma Climatological Survey
The University of Oklahoma
120 David L. Boren Blvd., Suite 2900
Norman, OK 73072-7305

TEL: 405-325-2541
FAX: 405-325-7282
E-MAIL: ocs@ou.edu

Disclaimer: This report is preliminary. Records and rankings will change as new data is collected. Refer to the National Centers for Environmental Information (NCEI) for the most up-to-date information.