

FEBRUARY 2023

A potent storm system—labeled by forecasters as “historic” and “unprecedented” for February—struck Oklahoma on Feb. 26 with all the fury and power of a mature springtime severe weather outbreak. At least nine tornadoes were confirmed during the event, with that total almost guaranteed to creep higher with further investigations by National Weather Service personnel. The total of nine alone shatters the previous February record of six set in both 1975 and 2009. The storm—which previously brought record snows to Southern California—seemed to pinpoint populated areas across the state with a combination

EF1 that touched down just to its west near McCloud, damaged 47 homes in the McCloud and Shawnee areas.

Other confirmed tornadoes struck near Hollis, Lone Grove, Amorita, Tuttle, and western Oklahoma City. There were scattered reports of straight-line winds exceeding 80 mph. The Oklahoma Mesonet site at Fittstown recorded a wind gust of 86 mph at 10:25 p.m. that evening, and a media chase vehicle measured a wind gust of over 111 mph near Hobart. February was not the only month that broke its monthly tornado

February 2023 Statewide Extremes

Description	Extreme	Station	Day
High Temperature	87°F	Burneyville	21
Low Temperature	-1°F	Kenton	17
High Precipitation	10.1 in.	Broken Bow	--
Low Precipitation	0.09 in.	Eva	--

of tornadoes and damaging straight-line winds. State officials reported at least 55 weather-related injuries on the day. One fatality was reported when an EF2 rated tornado struck the small community of Cheyenne in Roger Mills County and destroyed several homes. There were at least two other “strong” EF2 twisters quickly confirmed by NWS investigations. The first was on the ground for 26 miles from Goldsby through the east side of Norman. Emergency Management officials estimate 69 homes damaged in Norman, with 40 of those being destroyed. Apartment complexes housing University of Oklahoma students were also damaged on the southeast side of Norman. The second EF2 touched down just north of Shawnee and remained on the ground for 6 miles. That tornado, along with an

February 2023 Statewide Statistics

Temperature

Period	Average	Departure	Rank (1895-2023)
Month (February)	44.1°F	2°F	32nd Warmest
Season-to-Date (Dec-Feb)	42°F	2.6°F	20th Warmest
Year-to-Date (Jan-Feb)	43.1°F	3.3°F	14th Warmest

Precipitation

Period	Total	Departure	Rank (1895-2023)
Month (February)	2.58 in.	0.75 in.	21st Wettest
Season-to-Date (Dec-Feb)	5.66 in.	0.21 in.	42nd Wettest
Year-to-Date (Jan-Feb)	3.8 in.	0.41 in.	34th Wettest

Departure from 30-year normal

record. In astounding succession, December 2022 and January 2023 also broke their previous records with eight and five tornadoes, respectively. That December-February total of 20 tornadoes—with the added chance

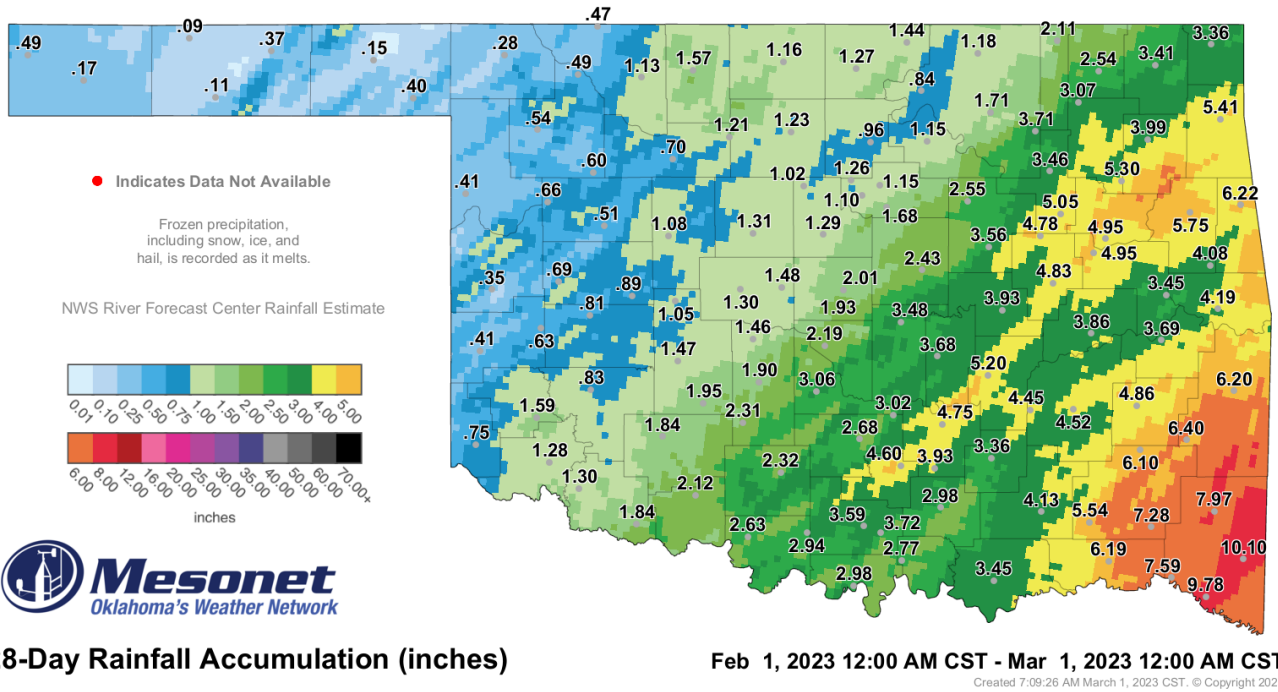
of that total possibly rising—obliterated the previous climatological winter record of seven, set back during the winters of 1974-75, 1975-76, and 2008-09.

The statewide average temperature for the month was 44.1 degrees, 1.7 degrees above normal and ranked as the 32nd warmest February since records began in 1895. Temperatures ranged from 87 degrees at Burneyville on Feb. 21 to minus 1 at Kenton on Feb. 17. Prolonged cold snaps were limited during the month. The Oklahoma Mesonet's 120 sites reached at least 80 degrees 32 times across three separate days during February, and 70 degrees 550 times across 11 separate days. The first two months of the year finished with a statewide average of 42 degrees, 1.8 degrees above normal and ranked as the 20th warmest January-February on record. Climatological winter's statewide average was 43.1 degrees, 2.8 degrees above normal and ranked as the 16th warmest such period on record. The highest temperature recorded during Winter 2022-23 was the 87 degrees at Burneyville on Feb. 21, and the lowest was the minus 7 degrees recorded at four separate locations between Dec. 22-23, 2022.

The statewide average precipitation total of 2.6 inches was 0.91 inches above normal and ranked the month as the 20th wettest February since records began in 1895. Hefty surpluses of 1-3 inches were observed across roughly the southeastern half of the state, with deficits of up to a half-inch across the northwestern half. Broken Bow led the state with a whopping 10.1 inches, 6.3 inches above normal. Eva had the lowest total at 0.09 inches. Twenty-eight of the Oklahoma Mesonet's 120 sites recorded at least 4 inches of rain for the month, and another 20 reported at least 4 inches. January and February combined had a statewide average of 3.82 inches, 0.56 inches above normal and ranked as the 34th wettest such period on record. The climatological winter finished with a statewide average of 5.68 inches, 0.31 inches above normal and ranked as the 41st wettest December-February on record.

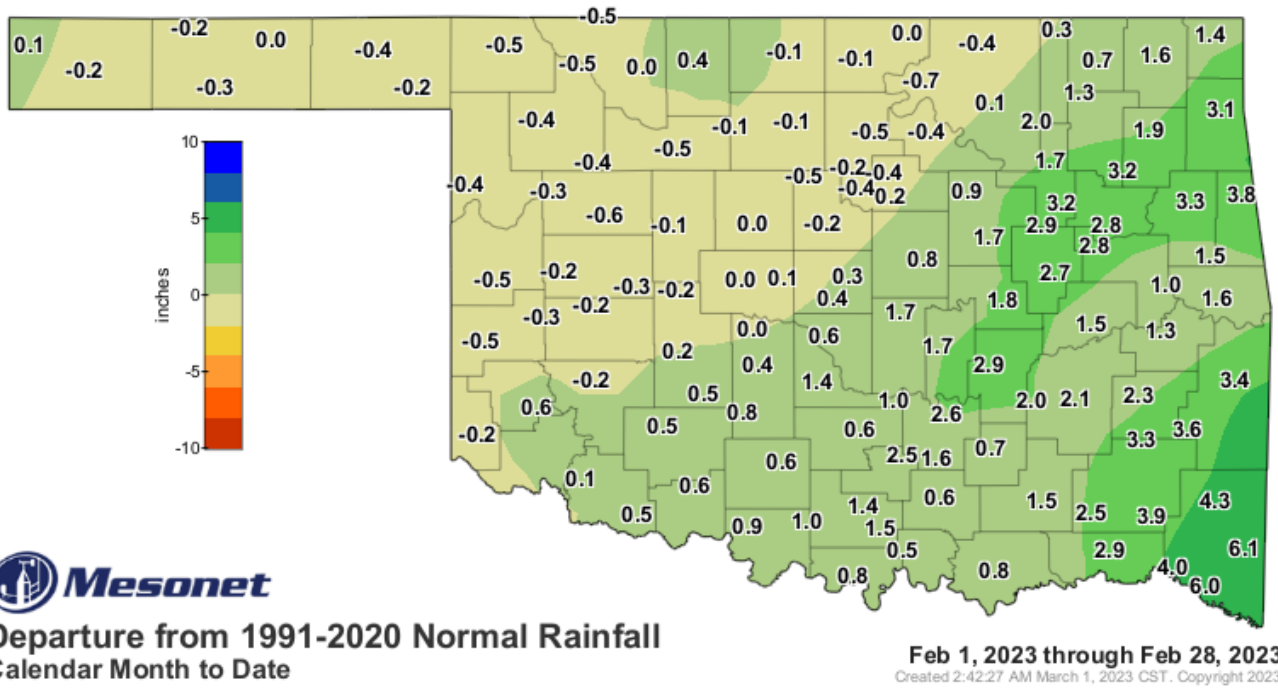
Drought coverage in Oklahoma was reduced by a little more than 10% during February according to the U.S. Drought Monitor, part of improvements across the southeastern half of the state that were prevalent through winter 2022-23. Drought covered 91% of the state at the beginning of December 2022, and 85% at the beginning of February. February's final Drought Monitor showed 75% of the state in at least moderate drought. The Climate Prediction Center's (CPC) March temperature and precipitation outlooks don't hold many clues other than increased odds of above normal precipitation across the eastern one-third of Oklahoma. CPC's March drought outlook calls for some improvement of drought from central through south central Oklahoma, but persistence across much of the northwestern half of the state.

FEBRUARY 2023 OBSERVED PRECIPITATION



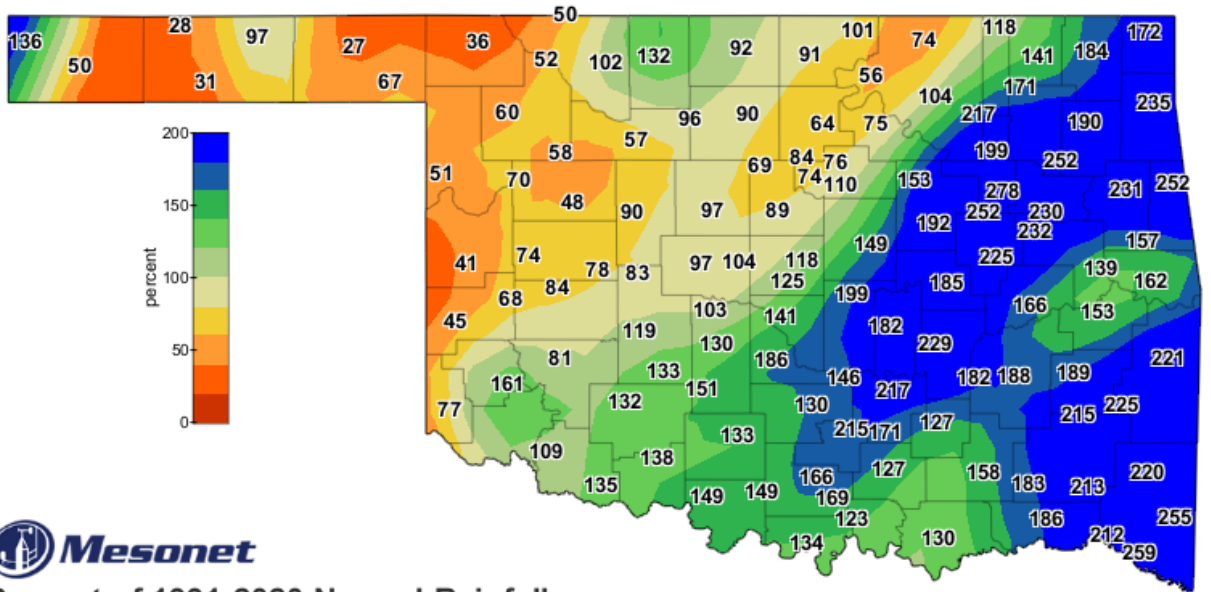
The accumulated rainfall for February varied from less than an inch in the panhandle and western Oklahoma to 1 to 3 inches in central Oklahoma to a high of 10.10 inches in southeastern Oklahoma at Broken Bow.

FEBRUARY 2023 DEPARTURE FROM NORMAL PRECIPITATION



Comparing the February rainfall accumulation to the 1991 to 2020 normal rainfall, sites west of Interstate 44 were below normal by half an inch to normal. East of Interstate 44, most areas received a half and inch to 2 inches above normal rainfall. A swath from Westville to Holdenville received between 2 and 3 inches above normal. McCurtain county was above normal by 4 to 6 inches.

FEBRUARY 2023 PERCENT OF NORMAL PRECIPITATION

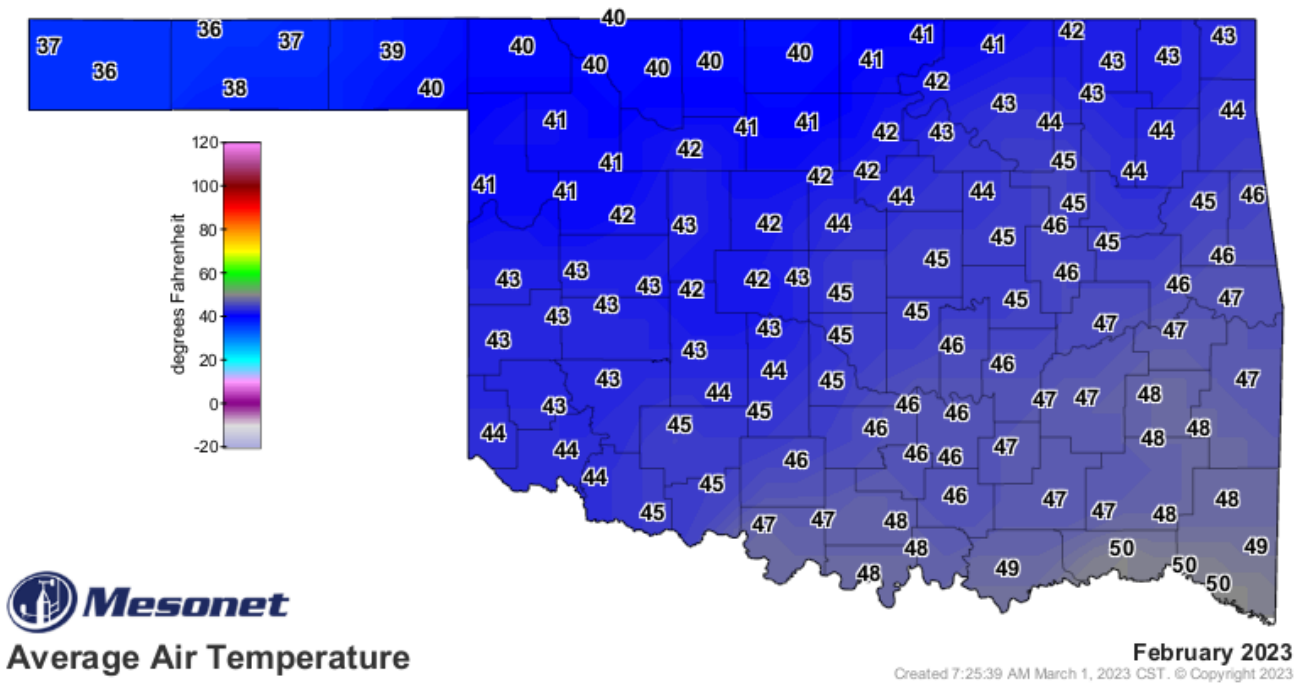


Percent of 1991-2020 Normal Rainfall
Calendar Month to Date

Feb 1, 2023 through Feb 28, 2023
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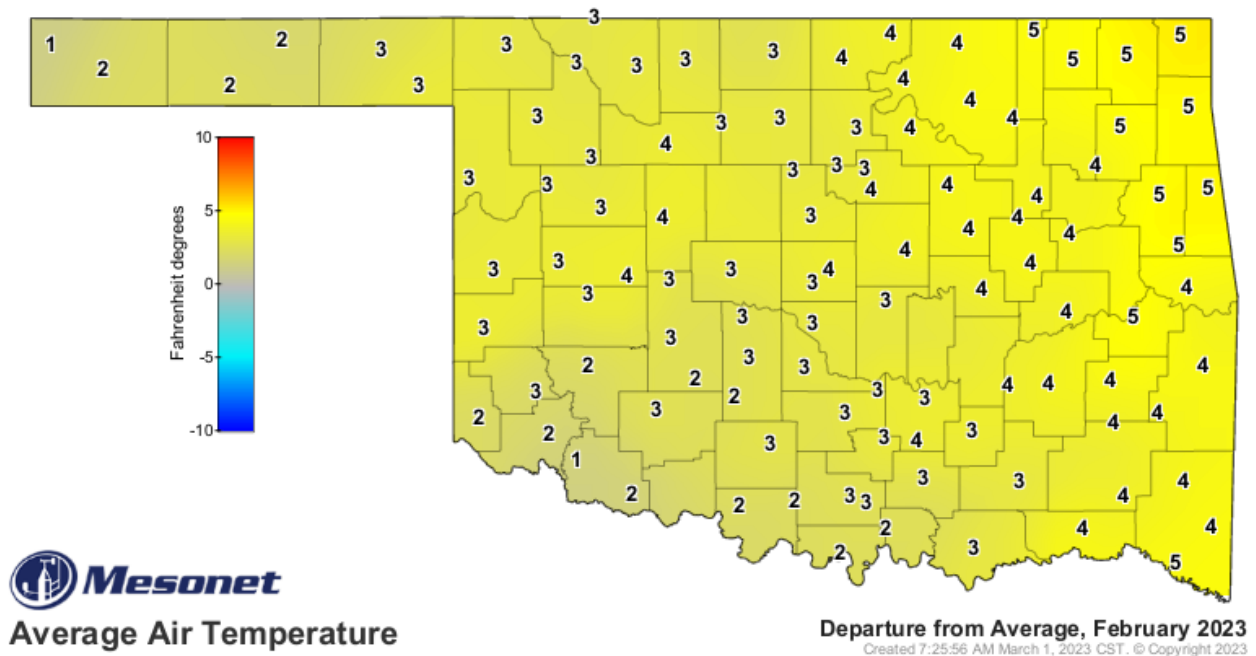
The panhandle and northwestern Oklahoma received between 28% and 136% of normal rainfall with Kenton receiving the most at 136%. Across the rest of the state, the western and central ranged from 36% to 161% of normal rainfall with Mangum benefiting the most. East of Interstate 44 to Interstate 35 and south were above normal by 130 % to 278%. South central counties ranged from 130 to 158% above normal.

FEBRUARY 2023 AVERAGE TEMPERATURE IN DEGREES FAHRENHEIT



Temperatures ranged from the upper 30s in the panhandle to the mid 40s in across most of the state and upper 50s in far southeastern counties.

FEBRUARY 2023 DEPARTURE FROM NORMAL TEMPERATURE



The temperature departures from normal ranged from 1°F to 3°F in the panhandle. The temperature departures increased 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 FEBRUARY 2023

PANHANDLE

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Arnett	41.8	75	28	10	23	651	0	.41	.34	26
Beaver	39.7	76	26	5	17	707	0	.15	.08	26
Boise City	37.0	75	26	3	17	785	0	.17	.06	17
Buffalo	40.8	77	21	9	23	678	0	.28	.18	26
Eva	36.7	78	26	0	23	793	0	.09	.06	17
Goodwell	39.0	79	26	2	16	727	0	.11	.06	26
Hooker	38.4	79	26	1	17	744	0	.37	.22	26
Kenton	36.8	74	26	-1	17	790	0	.49	.29	17
Slapout	41.2	76	21	8	23	666	0	.40	.27	26

NORTH CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Alva	40.7	76	28	11	1	680	0	1.13	.92	26
Blackwell	40.8	73	28	14	1	677	0	1.27	.58	26
Breckinridge	41.3	74	28	13	1	664	0	1.23	.46	14
Cherokee	41.0	75	28	14	23	672	0	1.57	.86	26
Fairview	42.5	78	28	15	1	630	0	.70	.39	26
Freedom	40.8	75	6	10	23	678	0	.49	.34	26
Lahoma	41.4	73	28	15	23	660	0	1.21	.53	26
May Ranch	41.0	74	6	9	23	673	0	.47	.27	26
Medford	40.1	73	28	15	23	697	0	1.16	.67	26
Newkirk	41.3	72	28	13	3	662	0	1.44	.64	26
Red Rock	42.3	76	28	14	1	636	0	.96	.46	8
Seiling	41.1	77	28	10	17	669	0	.60	.38	26
Woodward	42.0	76	6	10	23	643	0	.54	.43	26

NORTHEAST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Bixby	45.3	79	28	19	1	552	0	5.05	1.36	8
Burbank	42.1	76	28	13	1	642	0	.84	.39	14
Copan	42.5	76	28	13	1	630	0	2.11	.97	8
Foraker	41.7	75	28	14	1	652	0	1.18	.56	8
Inola	44.1	77	28	20	1	585	0	5.30	1.30	8
Jay	44.5	76	28	17	1	574	0	5.41	1.14	8
Miami	43.3	75	28	15	1	609	0	3.36	.99	8
Nowata	42.3	78	28	12	1	636	0	2.54	.77	8
Wynona	43.4	79	28	15	1	605	0	1.71	.74	8
Pawnee	43.5	78	28	13	1	603	0	1.15	.42	14
Porter	45.8	79	28	19	1	537	0	4.95	1.50	8
Pryor	43.7	76	28	18	1	596	0	3.99	1.14	8
Skiatook	44.1	77	28	16	1	585	0	3.71	1.11	8
Talala	43.3	77	28	17	1	609	0	3.07	.94	8
Tulsa	45.2	78	28	18	1	553	0	3.46	1.13	7
Vinita	42.7	76	28	14	1	623	0	3.41	1.07	7

WEST CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Bessie	43.8	80	21	16	17	593	0	.81	.27	26
Butler	43.1	80	28	12	11	613	0	.69	.34	26
Camargo	41.2	76	6	11	11	667	0	.66	.45	26
Cheyenne	43.6	77	21	14	23	598	0	.35	.22	26
Elk City	43.8	82	21	16	17	595	0	.63	.24	26
Erick	43.3	83	21	12	17	609	0	.41	.24	26
Putnam	42.2	78	28	14	23	637	0	.51	.30	26
Watonga	43.1	75	28	15	23	613	0	1.08	.38	26
Weatherford	43.4	77	28	16	17	***	***	.89	.27	14

CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Acme	44.7	80	21	16	1	568	0	2.31	.89	7
Bristow	44.5	77	28	16	1	574	0	3.56	1.06	7
Chandler	45.5	78	28	17	1	546	0	2.43	.98	7
Chickasha	44.3	80	21	17	1	579	0	1.90	.62	7
El Reno	42.6	77	28	12	1	627	0	1.30	.33	14
Guthrie	44.0	76	28	15	1	589	0	1.29	.38	8
Kingfisher	42.1	75	28	14	1	641	0	1.31	.27	8
Lake Carl Blac	42.2	77	28	11	1	638	0	1.26	.49	8
Marena	43.2	77	28	15	1	610	0	1.10	.33	8
Minco	43.7	77	21	17	1	598	0	1.46	.40	8
Marshall	42.1	76	28	15	1	642	0	1.02	.35	8
Yukon	43.6	76	28	16	1	600	0	1.48	.29	14
Norman	44.9	76	21	16	1	562	0	2.19	.82	7
Oilton	43.8	77	28	13	1	594	0	2.55	.78	7
OKC East	44.5	76	28	15	1	573	0	1.93	.66	7
Okemah	45.3	76	28	20	1	552	0	3.93	.91	8
Perkins	43.9	77	28	15	1	590	0	1.68	.42	8
Seminole	46.1	77	21	18	1	530	0	3.68	.98	7
Shawnee	44.7	74	21	18	1	568	0	3.48	1.22	7
Spencer	45.1	77	28	16	1	***	***	2.01	.71	7
Stillwater	43.0	77	28	14	1	616	0	1.15	.37	14
Washington	45.4	79	21	16	1	549	0	3.06	1.13	7

EAST CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Cookson	46.6	77	28	20	1	515	0	4.08	1.18	8
Eufaula	47.3	78	28	21	1	495	0	3.86	1.41	8
Haskell	45.3	78	28	19	1	551	0	4.95	1.42	8
Hectorville	46.1	79	28	18	1	530	0	4.78	1.20	8
Holdenville	46.2	76	28	20	1	528	0	5.20	1.22	8
McAlester	47.4	79	28	22	1	494	0	4.52	1.24	8
Okmulgee	45.6	78	28	19	1	542	0	4.83	1.47	8
Sallisaw	47.3	80	28	23	3	497	0	4.19	1.57	8
Stigler	47.8	77	28	23	1	482	0	3.69	1.06	8
Stuart	47.5	76	28	21	1	490	0	4.45	1.14	15
Tahlequah	45.6	77	28	20	1	543	0	5.75	1.77	8
Webbers Falls	46.1	80	28	22	1	529	0	3.45	1.21	8
Westville	46.1	76	28	19	1	529	0	6.22	1.19	8

SOUTHWEST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Altus	44.8	83	21	16	17	567	0	***	.56	8
Apache	44.2	81	21	17	1	583	0	1.95	.43	26
Fort Cobb	43.7	82	21	16	17	597	0	1.47	.41	8
Grandfield	46.1	83	21	19	17	529	0	1.84	.55	7
Hinton	42.3	77	21	16	1	***	***	1.05	.29	14
Hobart	43.8	82	21	15	17	593	0	.83	.32	8
Hollis	44.4	85	21	13	17	576	0	.75	.34	26
Mangum	44.1	85	21	9	17	586	0	1.59	.53	8
Medicine Park	45.8	81	21	19	1	537	0	1.84	.51	8
Tipton	45.1	81	28	17	17	***	***	1.30	.48	8
Walters	46.2	82	21	21	1	527	0	2.12	.74	7

SOUTH CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Ada	46.7	78	28	21	1	512	0	4.75	1.24	15
Ardmore	48.1	85	21	23	1	479	4	3.72	1.19	22
Burneyville	47.8	87	21	19	3	488	5	2.98	.80	8
Byars	47.0	77	21	20	1	504	0	3.02	.61	7
Centrahoma	47.5	79	28	21	3	492	1	3.36	1.17	8
Durant	49.2	83	21	24	1	450	8	3.45	1.06	8
Fittstown	47.0	80	21	21	1	505	1	3.93	.97	22
Ketchum Ranch	46.6	81	21	21	1	515	1	2.32	.74	7
Lane	47.9	80	21	23	1	481	1	4.13	1.14	8
Madill	48.1	85	21	22	3	478	6	2.77	.86	8
Newport	48.1	85	21	23	1	478	5	3.59	1.06	22
Pauls Valley	46.7	82	21	21	1	512	0	2.68	.63	15
Ringling	47.7	85	21	23	17	488	4	2.94	1.13	15
Sulphur	46.5	81	21	19	3	520	2	4.60	1.00	22
Tishomingo	46.9	82	21	21	3	508	2	2.98	.83	8
Waurika	47.7	86	21	22	17	488	3	2.63	.66	7

SOUTHEAST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Antlers	48.1	83	28	19	18	473	0	5.54	1.36	8
Broken Bow	49.9	83	21	24	18	424	1	10.10	4.35	8
Clayton	48.4	80	28	21	18	464	0	6.10	1.51	8
Cloudy	48.5	79	28	22	18	462	0	7.28	2.49	8
Hugo	50.0	81	21	23	1	426	5	6.19	1.88	7
Idabel	50.9	82	21	25	18	398	3	9.78	4.30	8
Mt Herman	48.5	77	21	25	18	462	0	7.97	3.14	8
Talihina	48.2	80	28	20	18	470	0	6.40	2.02	8
Valliant	50.0	81	21	23	18	421	1	7.59	3.31	8
Wilburton	48.1	79	28	23	1	473	0	4.86	1.21	8
Wister	47.5	82	28	20	18	491	0	6.20	1.97	8

2023 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL IN INCHES

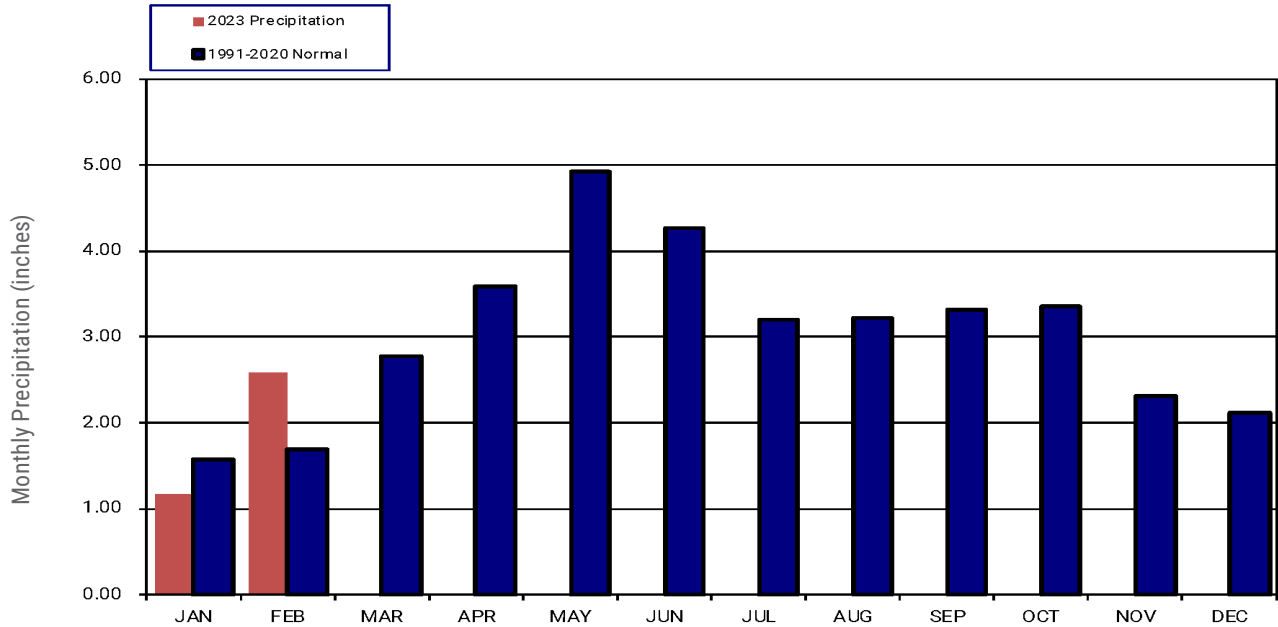


TABLE OF 2023 STATEWIDE PRECIPITATION MONTHLY TOTALS AND NORMALS IN INCHES

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2023	1.17	2.58	--	--	--	--	--	--	--	--	--	--
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

FEBRUARY 2023 MESONET PRECIPITATION COMPARISON

Climate Division	Precipitation (inches)	Departure from Normal (inches)	Rank since 1895	Wettest on Record (Year)	Driest on Record (Year)	Feb-22 (inches)
Panhandle	0.27	-0.36	36th Driest	2.95 (1911)	0.00 (1904)	0.28
North Central	0.98	-0.31	60th Wettest	3.97 (1911)	0.01 (1904)	1.04
Northeast	3.20	1.15	14th Wettest	5.90 (1985)	0.10 (1963)	1.92
West Central	0.67	-0.43	58th Driest	4.04 (2013)	0.00 (1991)	0.72
Central	2.09	0.28	30th Wettest	4.91 (1938)	0.04 (1947)	1.63
East Central	4.61	2.03	12th Wettest	8.92 (1938)	0.10 (1947)	2.58
Southwest	1.47	0.08	40th Wettest	3.68 (1997)	0.01 (1916)	1.12
South Central	3.37	0.98	18th Wettest	7.48 (1938)	0.08 (1996)	2.32
Southeast	7.09	3.72	6th Wettest	10.98 (2018)	0.34 (1895)	3.87
Statewide	2.58	0.75	21st Wettest	4.57 (1938)	0.18 (1996)	1.70

2023 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL IN DEGREES FAHRENHEIT

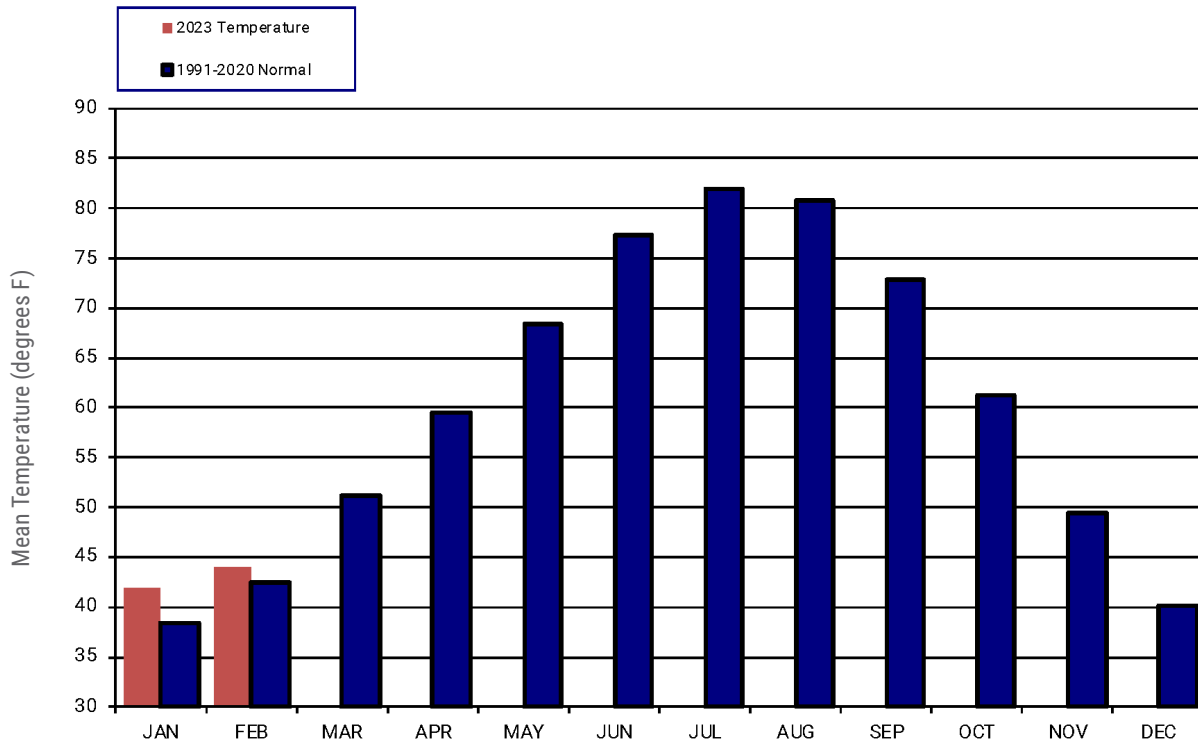


TABLE OF 2023 STATEWIDE TEMPERATURE MONTHLY TOTALS AND NORMALS IN DEGREES FAHRENHEIT

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2023	41.9	44.1	--	--	--	--	--	--	--	--	--	--
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

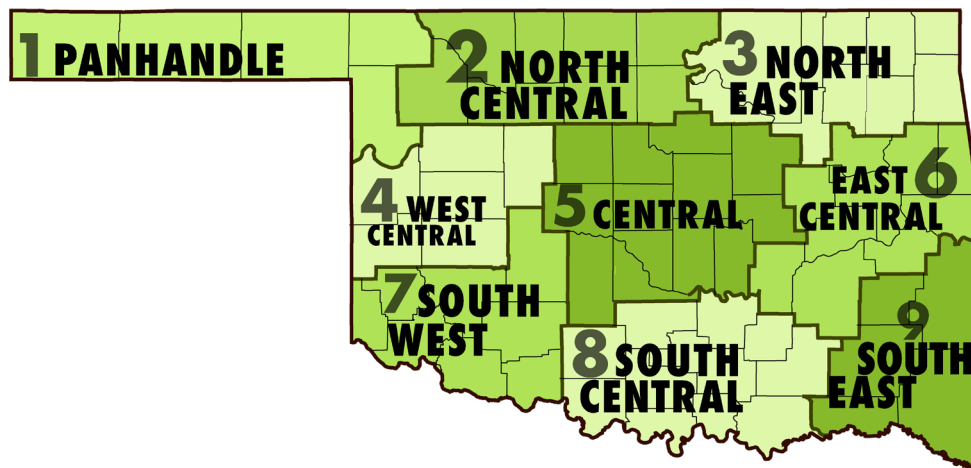
FEBRUARY 2023 MESONET TEMPERATURE COMPARISON

Climate Division	Average Temp (F)	Departure from Normal (F)	Rank since 1895	Hottest on Record (Year)	Coldest on Record (Year)	Feb-22 (F)
Panhandle	39.1	0.7	47th Warmest	47.3 (1954)	23.6 (1899)	33.8
North Central	41.3	1.7	36th Warmest	49.6 (1930)	25.3 (1978)	35.8
Northeast	43.6	2.9	28th Warmest	49.4 (1976)	25.4 (1905)	37.3
West Central	42.9	1.8	36th Warmest	50.9 (1954)	26.2 (1905)	37.4
Central	44	1.6	40th Warmest	51.5 (1954)	27.5 (1905)	39.4
East Central	46.5	3.3	25th Warmest	52.5 (2017)	29.5 (1905)	40.3
Southwest	44.3	0.7	48th Warmest	52.4 (1954)	28.0 (1905)	40
South Central	47.5	2.2	36th Warmest	54.3 (1976)	30.3 (1899)	41.3
Southeast	48.9	4.2	15th Warmest	53.6 (2017)	31.9 (1905)	42.1
Statewide	44.1	2	32nd Warmest	50.6 (1954)	27.6 (1905)	38.5

MESONET EXTREMES FOR FEBRUARY 2023

Climate Division	High Temp (F)			Low Temp (F)			High Monthly Rainfall (inches)		High Daily Rainfall (inches)		
	Day	Station	Day	Day	Station	Station	Station	Day	Station		
Panhandle	79	26th	Hooker	-1	17th	Kenton	0.49	Kenton	0.34	26th	Arnett
North Central	78	28th	Fairview	9	23rd	May Ranch	1.57	Cherokee	0.92	26th	Alva
Northeast	79	28th	Porter	12	1st	Nowata	5.41	Jay	1.50	8th	Porter
West Central	83	21st	Erick	11	11th	Camargo	1.08	Watonga	0.45	26th	Camargo
Central	80	21st	Acme	11	1st	Lake Carl Blackwell	3.93	Okemah	1.22	7th	Shawnee
East Central	80	28th	Webbers Falls	18	1st	Hectorville	6.22	Westville	1.77	8th	Tahlequah
Southwest	85	21st	Hollis	9	17th	Mangum	2.12	Walters	0.74	7th	Walters
South Central	87	21st	Burneyville	19	3rd	Burneyville	4.75	Ada	1.24	15th	Ada
Southeast	83	21st	Broken Bow	19	18th	Antlers	10.10	Broken Bow	4.35	8th	Broken Bow
Statewide	87	21st	Burneyville	-1	17th	Kenton	10.10	Broken Bow	4.35	8th	Broken Bow

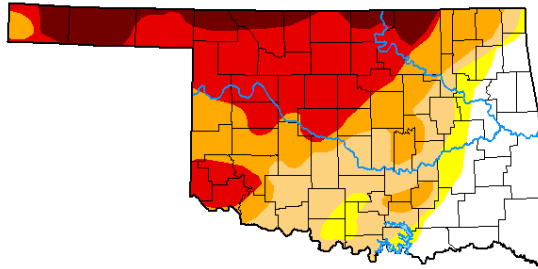
Oklahoma Climate Divisions



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

**U.S. Drought Monitor
Oklahoma**

February 21, 2023
(Released Thursday, Feb. 23, 2023)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	19.22	80.78	74.65	56.47	36.64	8.86
Last Week 02-14-2023	14.97	85.03	80.07	66.94	36.58	8.07
3 Months Ago 11-22-2022	0.00	100.00	97.68	87.88	64.46	19.77
Start of Calendar Year 01-03-2023	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 02-22-2022	6.69	93.31	86.65	73.94	52.05	2.90

Intensity:
 None
 D0 Abnormally Dry
 D1 Moderate Drought
 D2 Severe Drought
 D3 Extreme Drought
 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>

Author:
Richard Heim
NCEI/NOAA



droughtmonitor.unl.edu

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)

FEBRUARY 21, 2023 (RELEASED THURSDAY, FEB. 23, 2023)

VALID 7 A.M. EST

Period	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	19.22	80.78	74.65	56.47	36.64	8.86
Last Week 02-14-2023	14.97	85.03	80.07	66.94	36.58	8.07
3 Months Ago 11-22-2022	0.00	100.00	97.68	87.88	64.46	19.77
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One Year Ago 02-22-2022	6.69	93.31	86.65	73.94	52.05	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/>



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