

# DECEMBER 2022

December provided a fitting end to Oklahoma’s tumultuous 2022 weather story. This final chapter came complete with a half-dozen tornadoes, the coldest December day in 32 years, and the finishing touches on an all-time Oklahoma rainfall record. The Oklahoma Mesonet site at Goodwell finished 2022 with 6.48 inches of rain, breaking the previous all-time lowest annual rainfall record for any location in Oklahoma of 6.53 inches from Regnier in 1956. Those data go back to the late 1880s. The site recorded a hundredth of an inch during December, a paltry amount that helped solidify its claim on the dubious honor.

### December 2022 Statewide Extremes

Description	Extreme	Station	Day
High Temperature	83°F	Tipton	5
Low Temperature	-7°F	Several	22, 23
High Precipitation	4.52 in.	Sallisaw	--
Low Precipitation	0 in.	Eva, Hooker	--

While December finished just a tad above normal temperature-wise statewide, that parameter’s big story was the mid-month blast of frigid air that originated within the Arctic Circle in Siberia. The classic Blue Norther barreled down the lee of the Rockies and plunged all the way to the Gulf of Mexico, dropping temperatures below zero in Oklahoma and producing widespread wind chills in the minus teens and twenties. Dec. 23 was the coldest of the 3-4 day frosty visit with a statewide average temperature of 10.8 degrees, the lowest of any December day since 1990’s Dec. 22 value of 6.5 degrees. December also saw at least six tornadoes touch down during the month, including two EF2 rated twisters in central Oklahoma. One EF2

tornado touched down near Wayne and damaged trees, power lines, and structures within the town. The other EF2 tornado struck a home north of Cox City causing significant damage to the structure. The additional December tornadoes bring Oklahoma’s preliminary 2022 total to 57, closely matching the 1950-2021 annual average of 57.2.

The statewide average precipitation total for the month was 1.85 inches, 0.26 inches below normal and ranked as the 47th wettest December since records began in 1895. Sallisaw had the highest total with 4.52 inches for the month, while Eva and Hooker brought up the

### December 2022 Statewide Statistics

#### Temperature

Period	Average	Departure	Rank (1895-2022)
Month (December)	40.2°F	0.1°F	57th Warmest
Year-to-Date (Jan-Dec)	61.1°F	0.7°F	19th Warmest

#### Precipitation

Period	Total	Departure	Rank (1895-2022)
Month (December)	1.85 in.	-0.26 in.	47th Wettest
Year-to-Date (Jan-Dec)	29.42 in.	-6.94 in.	31st Driest

Departure from 30-year normal

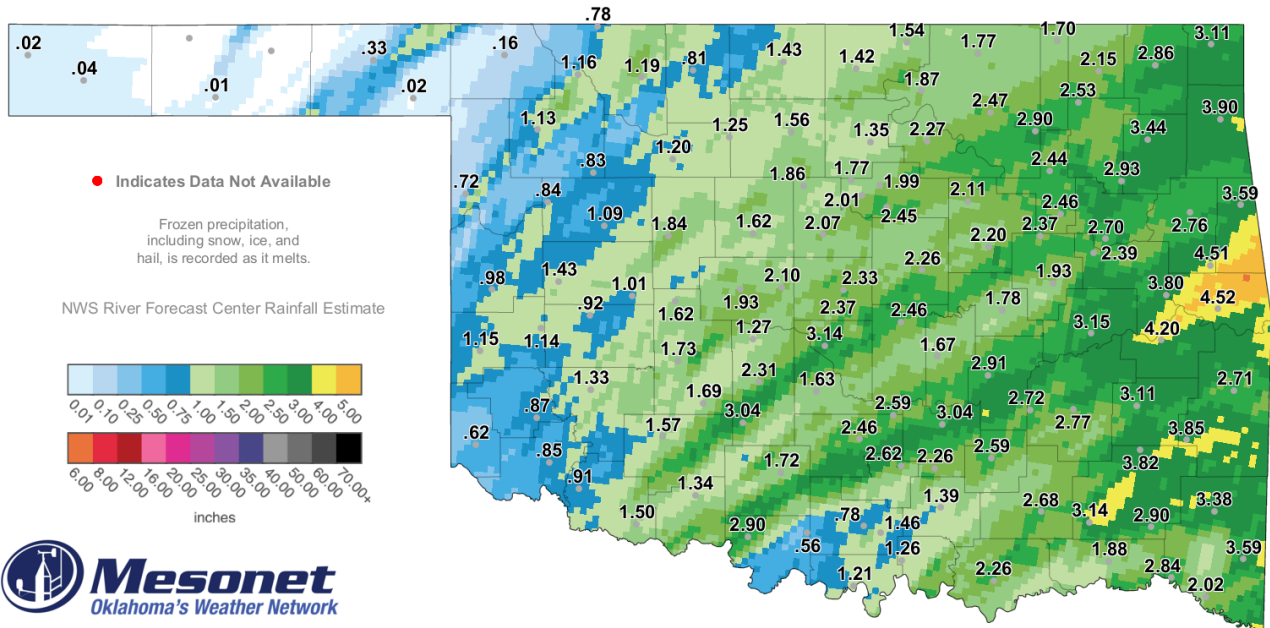
rear with no measurable precipitation. Four other Panhandle locations also received less than a tenth of an inch. The 2022 statewide average finished at 29.42 inches, 6.94 inches below normal and ranked as the 31st driest year since records began in 1895. The

Panhandle was particularly dry during 2022 at 7.57 inches below normal, their fourth driest year on record. Localized annual deficits ranged from 6-12 inches over most of the state. The only surpluses occurred in far east central Oklahoma where heavy rains led to amounts 6-10 inches above normal for the year. The Mesonet site at Sallisaw led the state for 2022 with 58.28 inches of rain.

The statewide average temperature was 40.2 degrees, 0.1 degrees above normal and ranked as the 57th warmest December since records began in 1895. Temperatures ranged from 83 degrees at Tipton on Dec. 5 to minus 7 degrees at Talala and Vinita on Dec. 22, and again at Foraker and Vinita on Dec. 23. Wind chill values plummeted during the late-month arctic blast, dropping to a 2022-low of minus 33.2 degrees at Hooker on Dec. 22. That was one of 292 wind chill values that fell below zero during the month at the Mesonet's 120 sites, and one of 21 below minus 25 degrees. The year finished with a statewide average of 61.1 degrees, 0.7 degrees above normal and ranked as the 19th warmest on record. The highest temperature of 2022 was 115 degrees at Mangum back on July 19, and the lowest was -12 degrees at Kenton on Feb. 4. The highest heat index of 120 degrees occurred at Webbers Falls on June 12.

The drought's coverage decreased only slightly during December—from 91.2% to 89.7%—according to the U.S. Drought Monitor, but its intensity had more robust improvements. Extreme and exceptional drought fell from 64% at the end of November to 56% at the end of December. Those two categories covered only 22% of the state at that same time in 2021, and peaked at 86% in October 2022. The Climate Prediction Center's (CPC) January 2023 drought outlook indicates drought is expected to persist through the month, but no new development is expected. CPC's January 2023 temperature outlook shows increased odds for above normal temperatures across the entire state, but equal chances for above-, below- and near-normal precipitation.

# DECEMBER 2022 OBSERVED PRECIPITATION



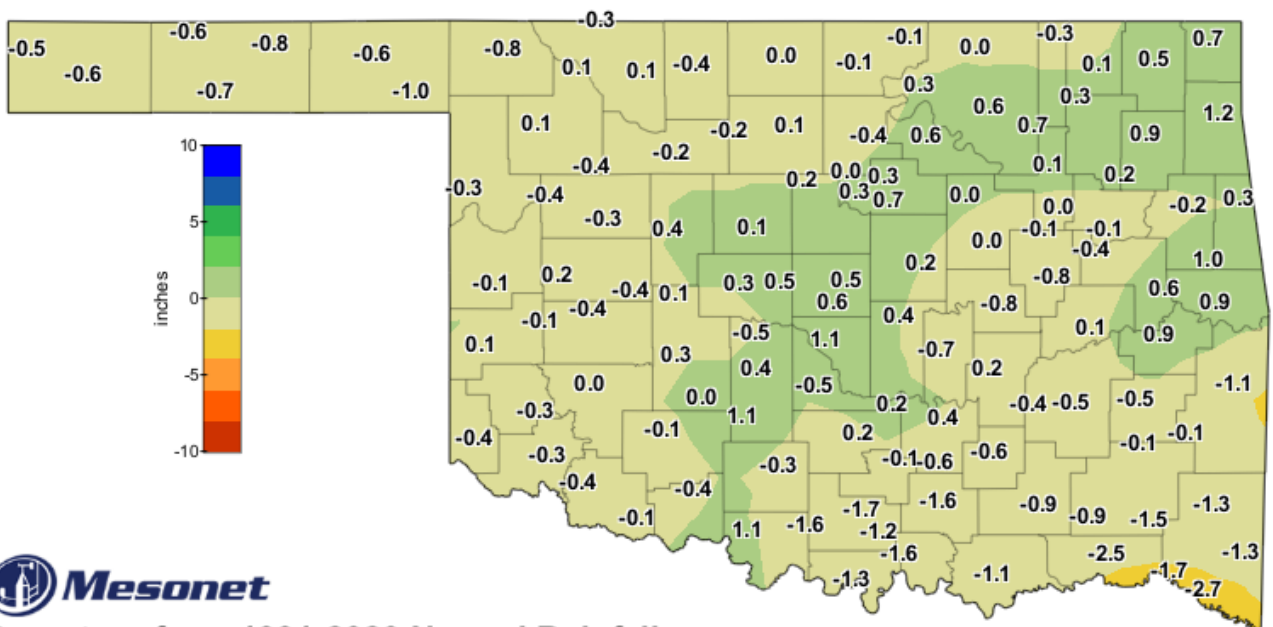
31-Day Rainfall Accumulation (inches)

Dec 1, 2022 12:00 AM CST - Jan 1, 2023 12:00 AM CST

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The accumulated rainfall for December varied from a trace in the panhandle to a high of 4.52 inches in eastern Oklahoma. The highest rainfall area was from northern Haskell county to southern Adair county. Eva and Hooker each received a trace and Sallisaw received 4.52 inches.

# DECEMBER 2022 DEPARTURE FROM NORMAL PRECIPITATION



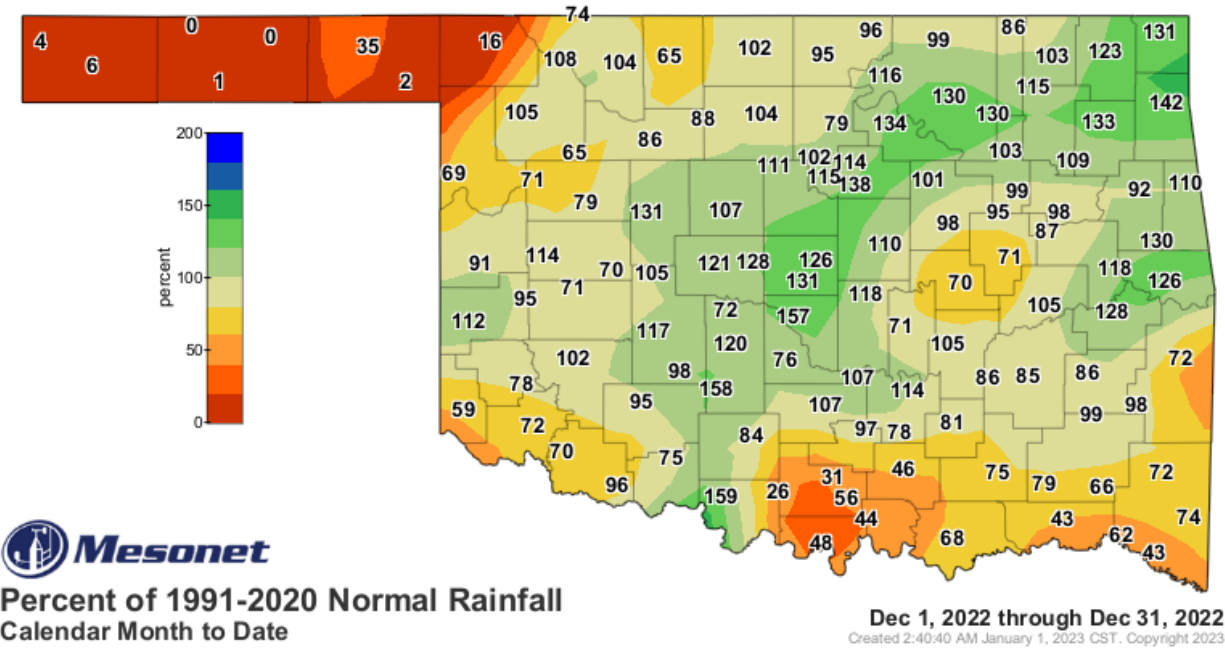
Departure from 1991-2020 Normal Rainfall  
Calendar Month to Date

Dec 1, 2022 through Dec 31, 2022

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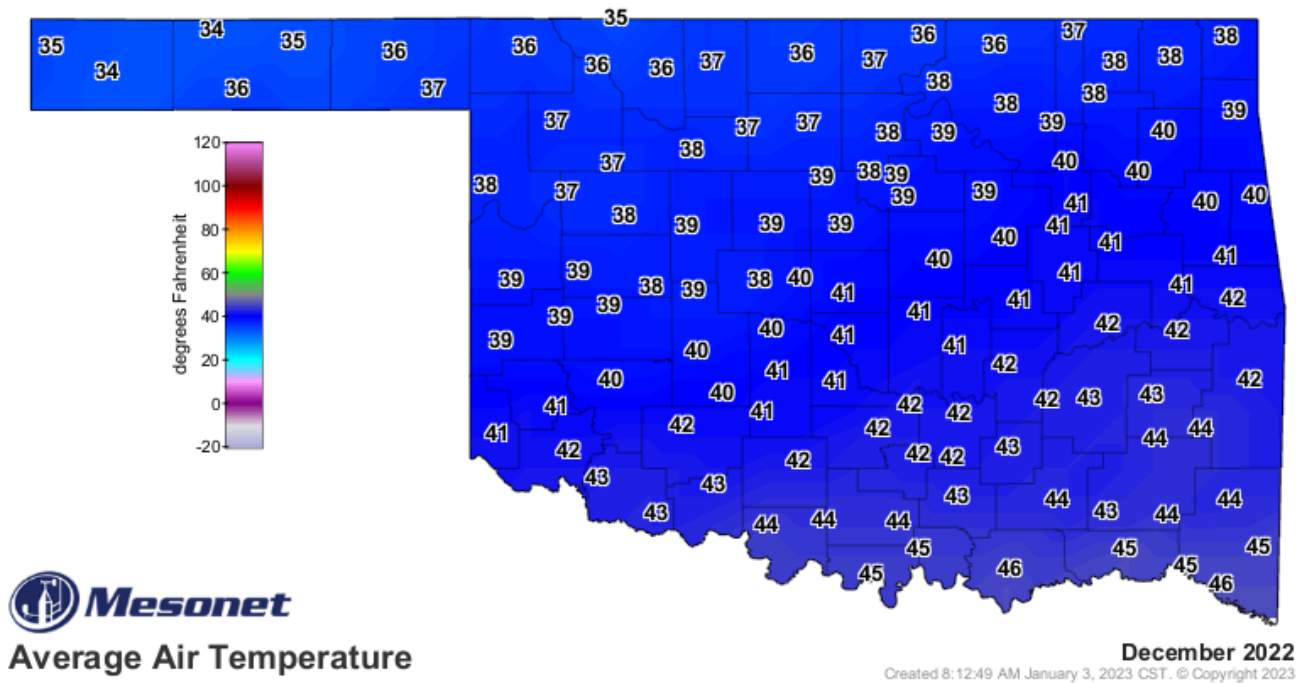
Comparing the rainfall accumulation to the 1991-2020 normal rainfall saw more than half the sites below normal by as much as -2.7 inches. Central and northeastern saw more than the normal by at most 1.1 inches while southeastern Oklahoma saw the highest deficit of -2.7 inches.

# DECEMBER 2022 PERCENT OF NORMAL PRECIPITATION



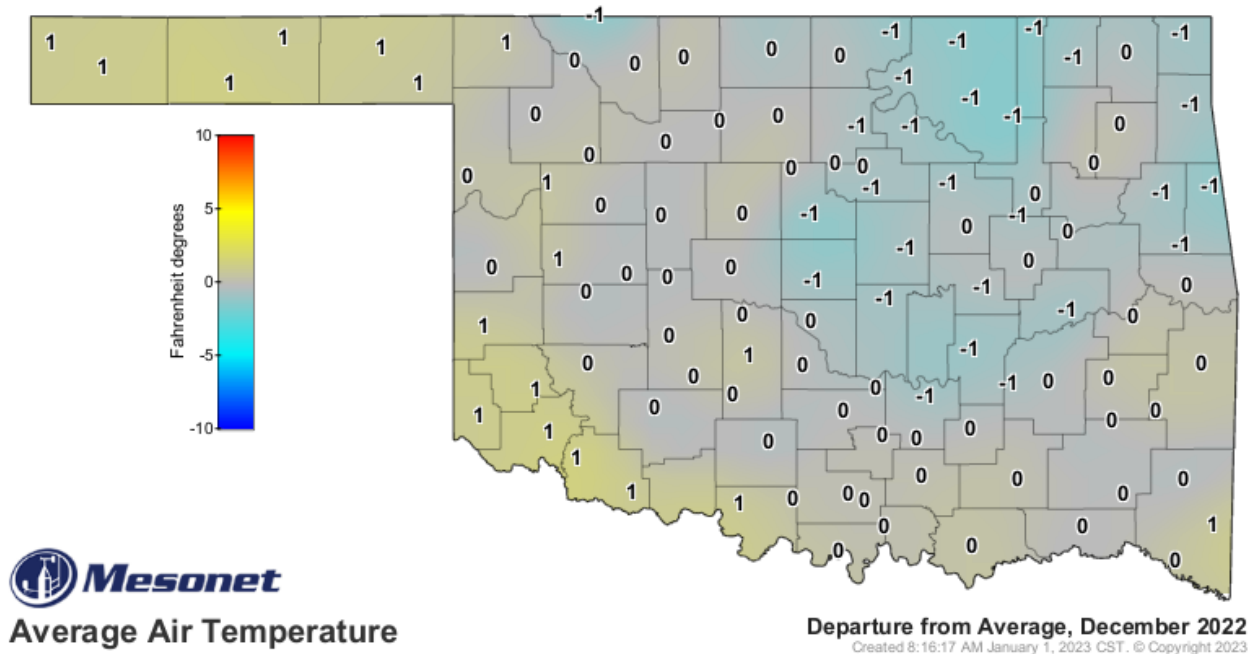
The panhandle and northwestern Oklahoma received between 0% and 35% of normal rainfall with Beaver receiving the most at 35%. The rest of the state ranged from 26% to 157% of normal rainfall. Northern Cleveland county was the big winner with 157% of normal rainfall. Outside of the panhandle, Ringling had the least amount with 26%.

## DECEMBER 2022 AVERAGE TEMPERATURE IN DEGREES FAHRENHEIT



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

## DECEMBER 2022 DEPARTURE FROM NORMAL TEMPERATURE



The temperature departures from normal ranged from -1°F to 1°F. The coldest areas were in east central and northeastern Oklahoma.

# MESONET MONTHLY SUMMARY FOR DECEMBER 2022

## PANHANDLE

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Arnett	38.5	77	2	-2	22	820	0	.72	.62	12
Goodwell	35.7	76	2	-4	22	908	0	.01	.01	12
Beaver	35.5	76	2	-4	22	913	0	.33	.33	12
Hooker	34.5	76	2	-5	22	944	0	.00	.00	1
Boise City	34.4	72	27	-4	22	947	0	.04	.04	16
Kenton	34.5	75	27	-4	23	945	0	.02	.01	16
Buffalo	36.5	76	2	-2	22	884	0	.16	.05	18
Slapout	36.7	76	2	-4	22	877	0	.02	.01	9
Eva	33.6	75	2	-5	22	972	0	.00	.00	1

## WEST CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Bessie	39.7	77	28	3	22	783	0	.92	.36	13
Erick	40.2	76	5	2	22	767	0	1.15	.40	13
Butler	39.5	77	28	2	22	789	0	1.43	.67	13
Putnam	38.1	73	28	0	22	833	0	1.09	.64	13
Camargo	38.1	76	28	0	22	834	0	.84	.49	13
Watonga	38.8	69	2	1	22	812	0	1.84	1.26	13
Cheyenne	40.1	76	5	0	22	772	0	.98	.38	13
Weatherford	38.9	72	5	2	22	810	0	1.01	.33	13
Elk City	40.0	78	5	2	22	773	0	1.14	.49	13

## NORTH CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Alva	36.6	75	28	0	22	879	0	1.19	.79	13
May Ranch	35.4	73	2	-3	22	916	0	.78	.44	13
Blackwell	37.0	67	2	-2	22	868	0	1.42	.69	13
Medford	36.7	68	2	-1	22	878	0	1.43	.62	13
Breckinridge	37.8	67	2	0	22	843	0	1.56	.82	13
Newkirk	36.5	65	29	-3	22	882	0	1.54	.59	13
Cherokee	37.1	71	2	0	22	864	0	.81	.54	13
Red Rock	38.1	67	29	0	22	833	0	1.35	.68	13
Fairview	38.7	70	28	1	22	817	0	1.20	.57	13
Selling	37.8	74	28	-1	22	845	0	.83	.36	9
Freedom	36.6	77	2	-2	22	882	0	1.16	.99	13
Woodward	37.5	77	2	-3	22	851	0	1.13	.61	13
Lahoma	37.6	68	2	0	22	848	0	1.25	.66	13

## CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Acme	41.6	77	5	5	23	726	0	3.04	2.20	13
Norman	41.0	74	5	3	22	744	0	3.14	1.79	13
Bristow	40.1	68	29	2	22	771	0	2.20	.72	13
Oilton	39.0	69	29	1	22	806	0	2.11	.60	10
Lake Carl Blac	38.7	70	5	0	22	815	0	1.77	.76	13
OKC East	40.9	72	5	2	22	748	0	2.37	.61	9
Chandler	40.8	72	5	2	22	750	0	2.26	.81	13
Okemah	40.4	68	29	3	22	761	0	1.78	.94	13
Chickasha	41.6	76	5	5	22	727	0	2.31	1.20	7
Perkins	39.7	70	5	1	22	785	0	2.45	.74	10
El Reno	38.5	73	5	2	22	822	0	1.93	.89	13
Seminole	41.4	74	5	3	22	733	0	1.67	.80	13
Guthrie	39.6	71	5	1	22	***	***	2.06	.70	10
Shawnee	40.7	71	5	3	22	752	0	2.46	1.28	13
Kingfisher	39.4	71	5	2	22	795	0	1.62	.81	13
Spencer	40.5	72	5	1	22	760	0	2.33	.71	9
Marena	39.1	70	5	0	22	803	0	2.01	.87	13
Stillwater	39.4	70	5	1	22	794	0	1.99	.77	13
Minco	40.2	74	5	4	22	769	0	1.27	.37	7
Washington	41.4	76	5	4	22	730	0	1.63	.75	13
Marshall	39.1	69	5	2	22	801	0	1.86	1.11	13
Yukon	39.9	72	5	2	22	777	0	2.10	.74	13

## NORTHEAST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Bixby	40.7	71	29	2	22	755	0	2.46	.92	13
Pawnee	38.6	69	29	0	22	819	0	2.27	.75	10
Burbank	37.6	67	29	-1	22	851	0	1.87	.78	13
Porter	41.0	71	29	1	22	743	0	2.70	.74	13
Copan	37.4	70	29	-4	22	857	0	1.70	.66	10
Pryor	39.5	71	29	-2	22	790	0	3.44	1.75	10
Foraker	36.7	67	29	-7	23	878	0	1.77	.57	10
Skiatook	39.1	69	29	-2	22	804	0	2.90	1.52	10
Inola	40.0	71	29	-1	22	775	0	2.93	.93	10
Talala	38.2	71	29	-7	22	831	0	2.53	1.56	10
Jay	39.6	70	29	-4	22	788	0	3.90	2.15	10
Tulsa	40.4	69	29	1	22	761	0	2.44	.89	10
Miami	38.4	70	29	-4	23	826	0	3.11	1.48	10
Vinita	37.6	72	29	-7	22	849	0	2.86	1.46	10
Nowata	37.6	71	29	-6	22	849	0	2.15	1.14	10
Wynona	38.3	70	29	-2	22	828	0	2.47	1.08	10

## EAST CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Cookson	41.1	69	29	-2	22	742	0	4.51	1.53	8
Sallisaw	42.0	71	29	2	22	714	0	4.52	1.60	8
Eufaula	42.6	68	29	3	22	694	0	3.15	1.79	8
Stigler	42.5	70	29	2	22	696	0	4.20	1.94	8
Haskell	40.8	72	29	2	22	751	0	2.39	.75	13
Stuart	42.9	68	29	4	22	686	0	2.72	1.14	8
Hectorville	41.1	70	29	1	22	742	0	2.37	.91	13
Tahlequah	40.6	68	29	-2	22	757	0	2.76	.80	13
Holdenville	41.6	69	29	3	22	726	0	2.91	1.67	8
Webbers Falls	41.2	71	29	2	22	736	0	3.80	1.81	8
McAlester	42.7	68	29	3	22	690	0	2.77	1.04	8
Westville	40.1	68	29	-4	22	771	0	3.59	1.08	10
Okmulgee	41.1	71	29	2	22	742	0	1.93	.55	8

## SOUTHWEST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Altus	43.2	81	5	8	22	677	0	.85	.47	13
Hollis	42.4	80	5	6	22	699	0	.62	.39	7
Apache	41.0	78	5	4	23	744	0	1.69	.83	13
Mangum	41.3	82	5	5	22	735	0	.87	.37	7
Fort Cobb	40.6	76	5	4	22	755	0	1.73	.61	13
Medicine Park	42.7	79	5	4	23	692	0	1.57	.61	13
Grandfield	44.3	78	5	9	23	641	0	1.50	.64	13
Tipton	44.0	83	5	7	22	652	0	.91	.63	13
Hinton	39.3	72	5	2	22	797	0	1.62	.75	13
Walters	43.6	79	5	8	23	662	0	1.34	.65	13
Hobart	40.7	78	5	5	22	754	0	1.33	.64	13

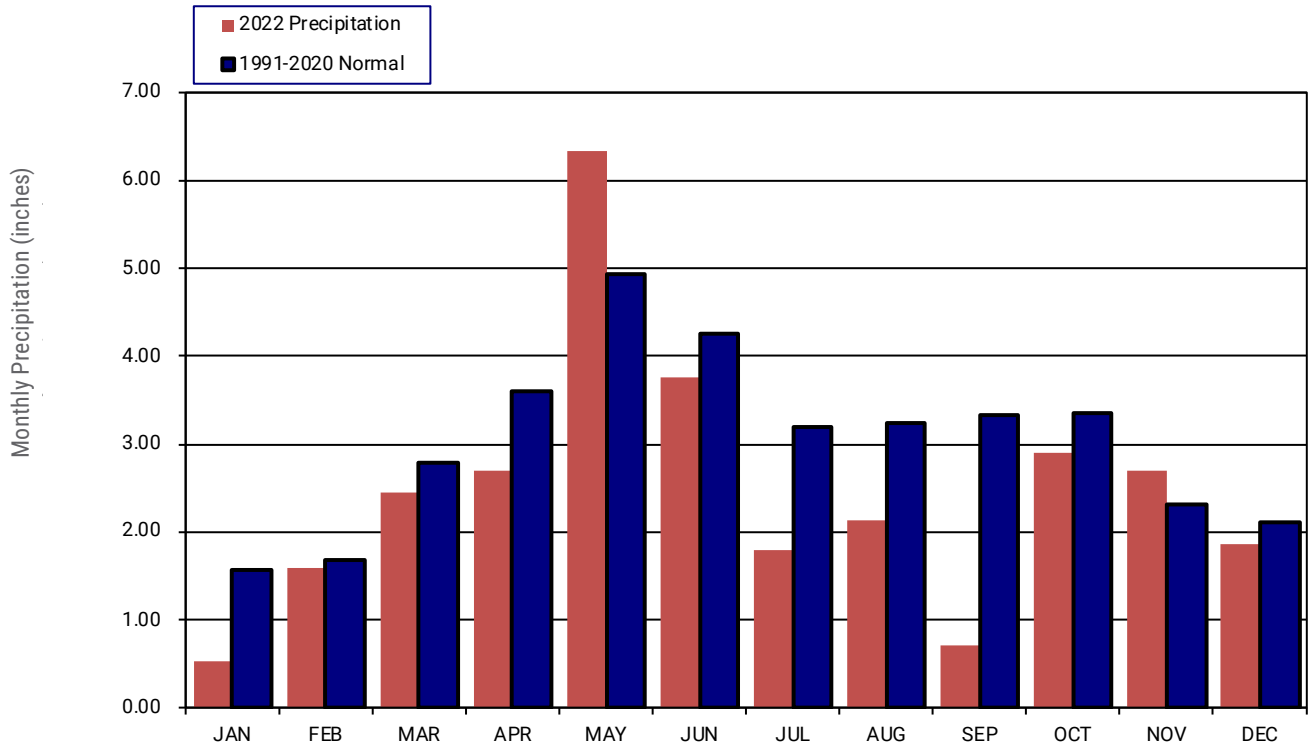
## SOUTH CENTRAL

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Ada	42.3	75	5	4	22	704	0	3.04	1.85	8
Lane	44.4	72	5	6	22	638	0	2.68	1.28	13
Ardmore	44.8	79	5	7	23	626	0	1.46	.67	13
Madill	45.1	78	5	7	22	616	0	1.26	.48	13
Burneyville	45.1	81	5	7	22	618	1	1.21	.43	13
Newport	44.6	81	5	6	22	631	0	.78	.27	13
Byars	42.2	75	5	4	22	706	0	2.59	1.40	8
Pauls Valley	42.9	77	5	5	23	686	0	2.46	1.45	8
Centrahoma	43.4	73	5	5	22	670	0	2.59	1.06	13
Ringling	44.2	80	5	7	22	644	0	.56	.23	8
Durant	46.1	75	5	7	22	586	0	2.26	1.06	13
Sulphur	42.5	78	5	5	23	697	0	2.62	1.24	8
Fittstown	42.6	76	5	3	22	695	0	2.26	.66	8
Tishomingo	43.4	75	5	6	22	669	0	1.39	.72	13
Ketchum Ranch	43.0	77	5	6	22	683	0	1.72	.70	13
Waurika	44.6	81	5	8	22	633	0	2.90	1.36	13

## SOUTHEAST

NAME	MEAN TEMP	HIGH TEMP	DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
Antlers	44.0	72	8	5	22	651	0	3.14	1.31	13
Mt Herman	44.0	72	29	1	23	650	0	3.38	1.25	10
Broken Bow	45.7	74	29	6	23	598	1	3.59	1.98	10
Talihina	44.0	72	29	2	22	650	0	3.85	1.55	13
Clayton	43.5	69	29	3	22	666	0	3.82	1.38	13
Valliant	45.6	74	6	6	23	603	0	2.84	1.77	10
Cloudy	44.5	70	29	4	22	635	0	2.90	1.10	13
Wilburton	43.4	69	29	3	22	670	0	3.11	1.15	13
Hugo	45.7	72	6	6	22	600	0	1.88	.76	13
Wister	42.5	74	29	2	22	697	0	2.71	1.12	13
Idabel	46.4	74	6	6	23	576	1	2.02	1.08	10

## 2022 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL IN INCHES



**TABLE OF 2022 STATEWIDE PRECIPITATION MONTHLY TOTALS AND NORMALS IN INCHES**

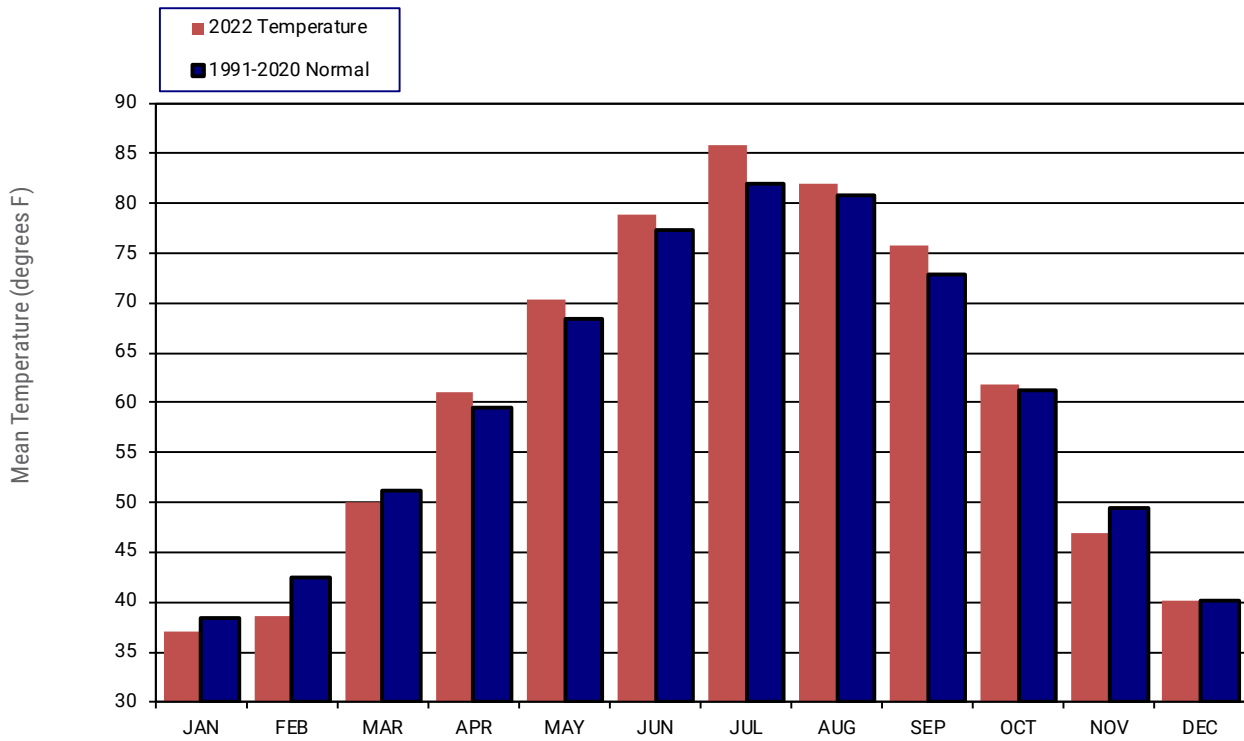
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>2022</b>	0.52	1.60	2.45	2.70	6.33	3.76	1.79	2.13	0.71	2.91	2.69	2.06
<b>1991-2020</b>	1.57	1.69	2.78	3.59	4.93	4.26	3.20	3.23	3.32	3.36	2.32	2.11



## DECEMBER 2022 MESONET PRECIPITATION COMPARISON

Climate Division	Precipitation (inches)	Departure from Normal (inches)	Rank since 1895	Wettest on Record (Year)	Driest on Record (Year)	Dec-21 (inches)
Panhandle	0.14	-0.70	23rd Driest	3.28 (2006)	0.00 (1976)	0.00
North Central	1.20	-0.15	43rd Wettest	3.59 (1984)	0.01 (1950)	0.08
Northeast	2.59	0.33	29th Wettest	7.61 (1895)	0.14 (1950)	1.56
West Central	1.16	-0.11	38th Wettest	4.04 (1911)	0.00 (1908)	0.03
Central	2.11	0.14	38th Wettest	6.45 (1984)	0.03 (1908)	0.46
East Central	3.20	0.07	35th Wettest	11.09 (2015)	0.20 (1917)	2.54
Southwest	1.28	-0.15	47th Wettest	5.65 (1911)	0.00 (1908)	0.10
South Central	1.99	-0.73	60th Wettest	6.97 (1991)	0.06 (1917)	0.98
Southeast	3.02	-1.23	60th Driest	12.32 (2015)	0.19 (1917)	2.31
Statewide	<b>1.85</b>	<b>-0.26</b>	<b>47th Wettest</b>	<b>5.54 (2015)</b>	<b>0.09 (1950)</b>	<b>0.87</b>

## 2022 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL IN DEGREES FAHRENHEIT



**TABLE OF 2022 STATEWIDE TEMPERATURE MONTHLY TOTALS AND NORMALS IN DEGREES FAHRENHEIT**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	37.0	38.6	50.0	61.0	70.3	78.8	85.9	81.9	75.7	61.9	46.9	40.2
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

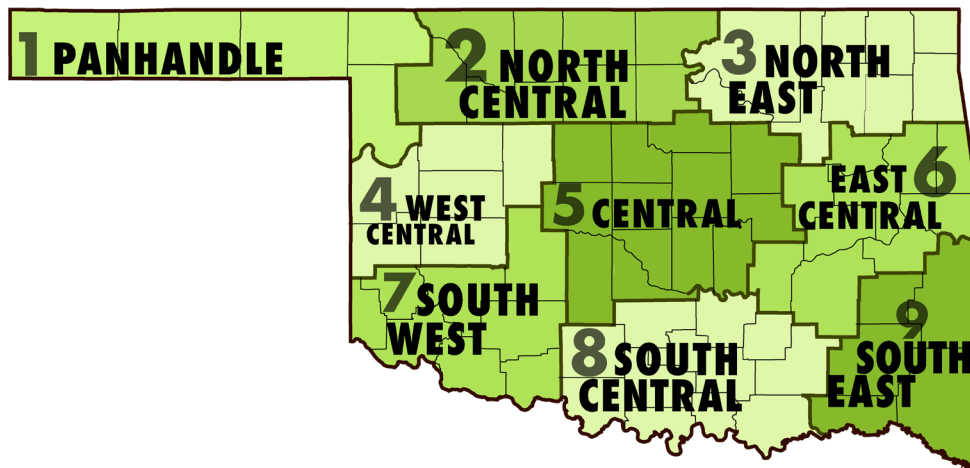
## DECEMBER 2022 MESONET TEMPERATURE COMPARISON

Climate Division	Average Temp (F)	Departure from Normal (F)	Rank since 1895	Hottest on Record (Year)	Coldest on Record (Year)	Dec-21 (F)
Panhandle	35.6	-0.3	64th Warmest	44.5 (2021)	22.6 (1983)	44.5
North Central	37.2	-0.3	60th Warmest	47.0 (2021)	21.5 (1983)	47.0
Northeast	38.8	-0.4	60th Warmest	49.8 (2021)	23.6 (1983)	49.8
West Central	39.3	0.5	44th Warmest	49.0 (2021)	24.1 (1983)	49.0
Central	40.0	-0.6	62nd Warmest	51.2 (2021)	25.5 (1983)	51.2
East Central	41.6	-0.2	59th Warmest	53.0 (2021)	27.6 (1983)	53.0
Southwest	42.1	0.7	41st Warmest	51.2 (2021)	27.4 (1983)	51.2
South Central	43.8	0.6	50th Warmest	54.1 (2021)	29.4 (1983)	54.1
Southeast	44.5	1.3	35th Warmest	54.1 (2021)	30.4 (1983)	54.1
<b>Statewide</b>	<b>40.2</b>	<b>0.1</b>	<b>57th Warmest</b>	<b>50.4 (2021)</b>	<b>25.7 (1983)</b>	<b>50.4</b>

## MESONET EXTREMES FOR DECEMBER 2022

Climate Division	High Temp (F)	Day	Station	Low Temp (F)	Day	Station	High Monthly Rainfall (inches)	Station	High Daily Rainfall (inches)	Day	Station
	Panhandle	77	2nd	Arnett	-5	22nd	Eva	0.72	Arnett	0.62	12th
North Central	77	2nd	Woodward	-3	22nd	May Ranch	1.56	Breckinridge	0.99	13th	Freedom
Northeast	72	29th	Vinita	-7	22nd	Vinita	3.90	Jay	2.15	10th	Jay
West Central	78	5th	Elk City	0	22nd	Camargo	1.84	Watonga	1.26	13th	Watonga
Central	77	5th	Acme	0	22nd	Marena	3.14	Norman	2.20	13th	Acme
East Central	72	29th	Haskell	-4	22nd	Westville	4.52	Sallisaw	1.94	8th	Stigler
Southwest	83	5th	Tipton	2	22nd	Hinton	1.73	Fort Cobb	0.83	13th	Apache
South Central	81	5th	Waurika	3	22nd	Fittstown	3.04	Ada	1.85	8th	Ada
Southeast	74	6th	Idabel	1	23rd	Mt Herman	3.85	Talihina	1.98	10th	Broken Bow
Statewide	83	5th	Tipton	-7	22nd	Vinita	4.52	Sallisaw	2.20	13th	Acme

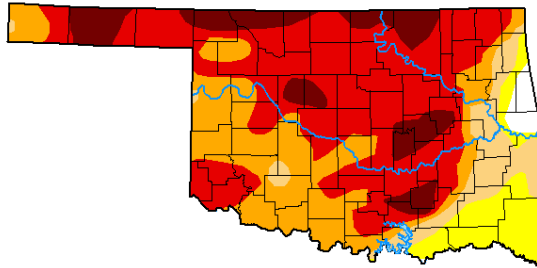
Oklahoma Climate Divisions



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

**U.S. Drought Monitor  
Oklahoma**

**December 27, 2022**  
(Released Thursday, Dec. 29, 2022)  
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	1.82	98.18	89.73	80.92	56.13	11.65
<b>Last Week</b> 12-20-2022	1.82	98.18	89.73	80.92	56.13	11.65
<b>3 Months Ago</b> 09-27-2022	0.00	100.00	99.88	94.44	64.44	17.25
<b>Start of Calendar Year</b> 01-04-2022	5.02	94.98	88.14	72.26	40.44	0.00
<b>Start of Water Year</b> 09-27-2022	0.00	100.00	99.88	94.44	64.44	17.25
<b>One Year Ago</b> 12-28-2021	4.92	95.08	90.17	72.51	22.62	0.00

**Intensity:**  
 None (White)      D2 Severe Drought (Orange)  
 D0 Abnormally Dry (Yellow)      D3 Extreme Drought (Red)  
 D1 Moderate Drought (Light Orange)      D4 Exceptional Drought (Dark Red)

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](https://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)**

**JANUARY 27, 2023 (RELEASED THURSDAY, JAN. 29, 2023)**

**VALID 7 A.M. EST**

Period	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	1.82	98.18	89.73	80.92	56.13	11.65
<b>Last Week</b> 12-20-2022	1.82	98.18	97.68	80.92	56.13	11.65
<b>3 Months Ago</b> 09-27-2022	0.00	100.00	99.88	94.44	64.44	17.25
<b>Start of Current Year</b> 01-04-2022	5.02	94.98	88.14	72.26	40.44	0.00
<b>Start of Water Year</b> 09-27-2022	0.00	100.00	99.88	94.44	64.44	17.25
<b>One Year Ago</b> 12-28-2021	4.92	95.08	60.71	72.51	22.62	0.00

## 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 December 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 December 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.shtml](https://www.cpc.ncep.noaa.gov/products/OUTLOOKS_index.shtml)

### CLIMATE CALENDARS AND OTHER LOCAL WEATHER AND CLIMATE INFORMATION

#### Oklahoma Climatological Survey:

<https://climate.mesonet.org> or <https://climate.ok.gov/>



Oklahoma Climatological Survey is the State Climate Office for Oklahoma

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