Oklahoma Monthly Climate Summary

APRIL 2022

OKLAHOMA CLIMATOLOGICAL SURVEY

Opinions on Oklahoma's weather are often more variable than the weather itself. Some Oklahomans will look back on April 2022 and remember the seven confirmed tornadoes that touched down, although that is still below the long-term average of 11.7 for the month. Many others will remember drought that saw both intensification in the northwest and improvement across the southeast. There is one aspect of this April's weather that would unite most Oklahomans, however—the wind. Already Oklahoma's windiest calendar month climatologically, the seemingly unceasing gales howling day and night became a common point of exasperation. Data from the Oklahoma Mesonet lends credence to that frustration. Both the statewide average wind speed and maximum wind speed for this April were tops since Mesonet data began in 1994 at 12.2 mph and 22.9 mph, respectively. Previous top marks were held by 1996's 12 mph and 2011's 22.5 mph, again respectively. Those and other metrics point towards the month as the windiest April statewide in the Mesonet era. Fourteen of April's 30 days saw non-thunderstorm wind gusts of at least 50 mph somewhere in the state, and nine days with at least 60 mph. Tipton and Slapout shared the highest wind gusts at 74 mph on April 5 and 22, respectively. The seven confirmed tornadoes brought 2022's total to 12, still a bit below the long-term average of 16.5 for the first four months of the year.

It was largely a state divided on the rainfall maps, with areas to the southeast of Interstate 44 receiving a surplus of moisture while those to the northwest continued in prolonged dry conditions. Combined, the statewide average for the month was 2.7 inches, 0.89 inches below normal and ranked as the 43rd driest April since records began in 1895. The differing fortunes were emphasized by north central Oklahoma's third driest ranking at 2.58 inches below normal, as opposed to east central Oklahoma's ranking as 26th wettest with an average surplus of 1.69 inches. Mt. Herman led the Mesonet's 120 sites with 8.98 inches of rain for the month. Erick went nearly the entire month without appreciable moisture, finishing with a paltry tenth of an inch. Twenty-seven sites reported more than 5 inches for the month while another 38 received less than an inch. The first four months of the year finished at 7.69 inches, the 42nd driest January through April on record, 1.94 inches below normal.

The statewide average temperature finished at 61 degrees, 1.5 degrees above normal and ranked as the 39th warmest April since records began in 1895. Temperatures soared at times, with 90s being recorded on 11 of April's 30 days, and Oklahoma's first triple-digit temperature of 2022 was recorded on the 29th at Altus at exactly 100 degrees. The heat was more concentrated across western Oklahoma where the drought has flourished with many locations 3-4 degrees above normal for the month. Eva dropped to 16 degrees on the 14th for the lowest recorded temperature. The first four months of the year remained below normal thanks to a frigid February. The statewide average was 46.9 degrees, a degree below normal and ranked as the 57th warmest such period on record.

April 2022 Statewide Extremes

Description	Extreme	Station	Day
High Temperature	100°F	Altus	29
Low Temperature	16°F	Eva	14
High Precipitation	8.98 in.	Mt. Herman	--
Low Precipitation	0.10 in.	Erick	--

April 2022 Statewide Statistics

Temperature

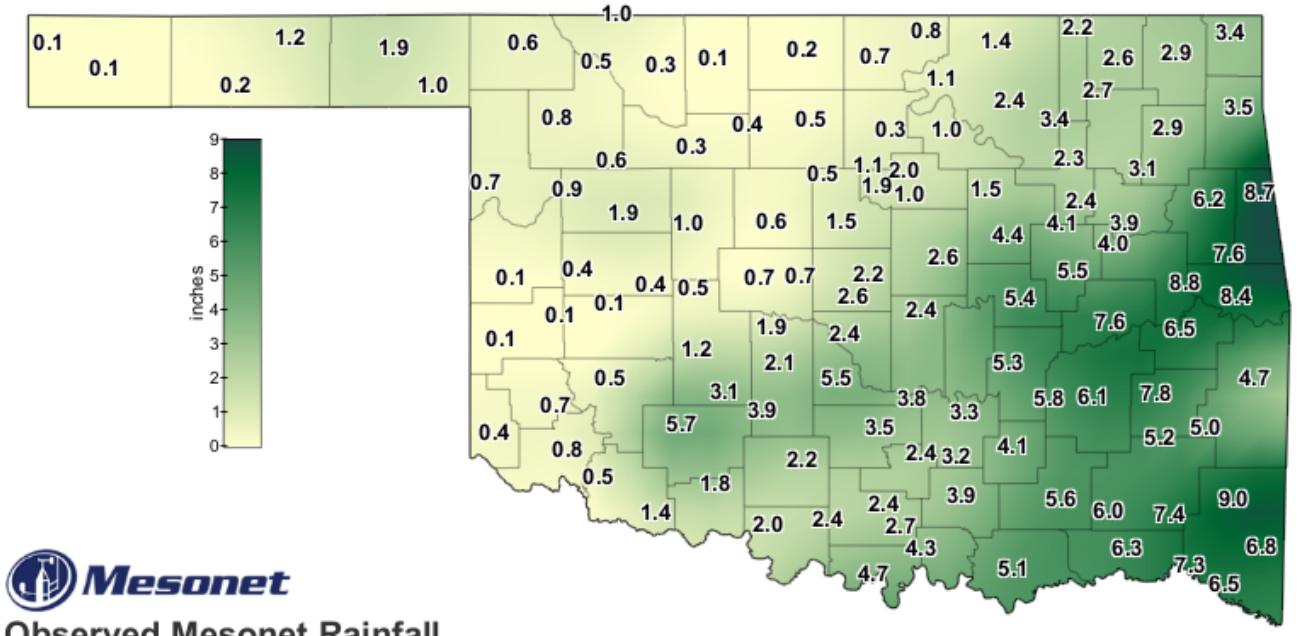
	Average	Depart.	Rank (1895-2022)
Month (Apr)	61°F	1.5°F	39th Warmest
Season-to-Date (Mar-Apr)	55.7°F	0.4°F	42nd Warmest
Year-to-Date (Jan-Apr)	46.9°F	-1°F	57th Warmest

Precipitation

	Total	Depart.	Rank (1895-2022)
Month (Apr)	2.70 in.	-0.89 in.	43rd Driest
Season-to-Date (Mar-Apr)	5.33 in.	-1.04 in.	59th Driest
Year-to-Date (Jan-Apr)	7.69 in.	-1.94 in.	42nd Driest

While drought's coverage decreased from 76% of the state at the end of March to 65% at the end of April, the two highest levels of drought—extreme and exceptional—increased from 34% to 39% according to the U.S. Drought Monitor. The most intense category of drought, exceptional, increased from 8% to 11% over that same span, all across far western Oklahoma. Heavy rains forecast for early May could spell relief, however. The Climate Prediction Center's May temperature and precipitation outlooks call for increased odds of above normal temperatures across the entire state and above normal precipitation in the eastern two-thirds of Oklahoma. CPC believes the expected early moisture, combined with the onset of the climatological wettest part of the year for most of the state, will lead to improvements in drought conditions in all but the western Panhandle through May.

APRIL 2022 OBSERVED PRECIPITATION



Mesonet

Observed Mesonet Rainfall
Calendar Month to Date

Apr 1, 2022 through Apr 30, 2022
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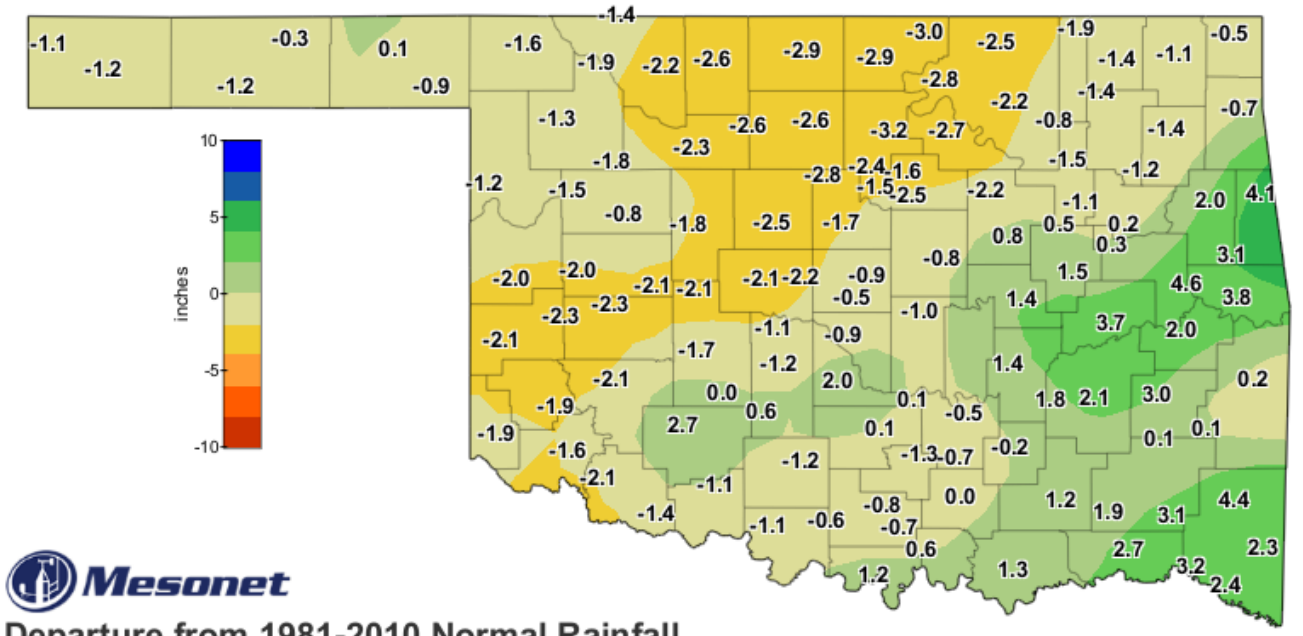
APRIL 2022 DEPARTURE FROM NORMAL PRECIPITATION



Mesonet

Departure from 1981-2010 Normal Rainfall
Calendar Month to Date

Apr 1, 2022 through Apr 30, 2022
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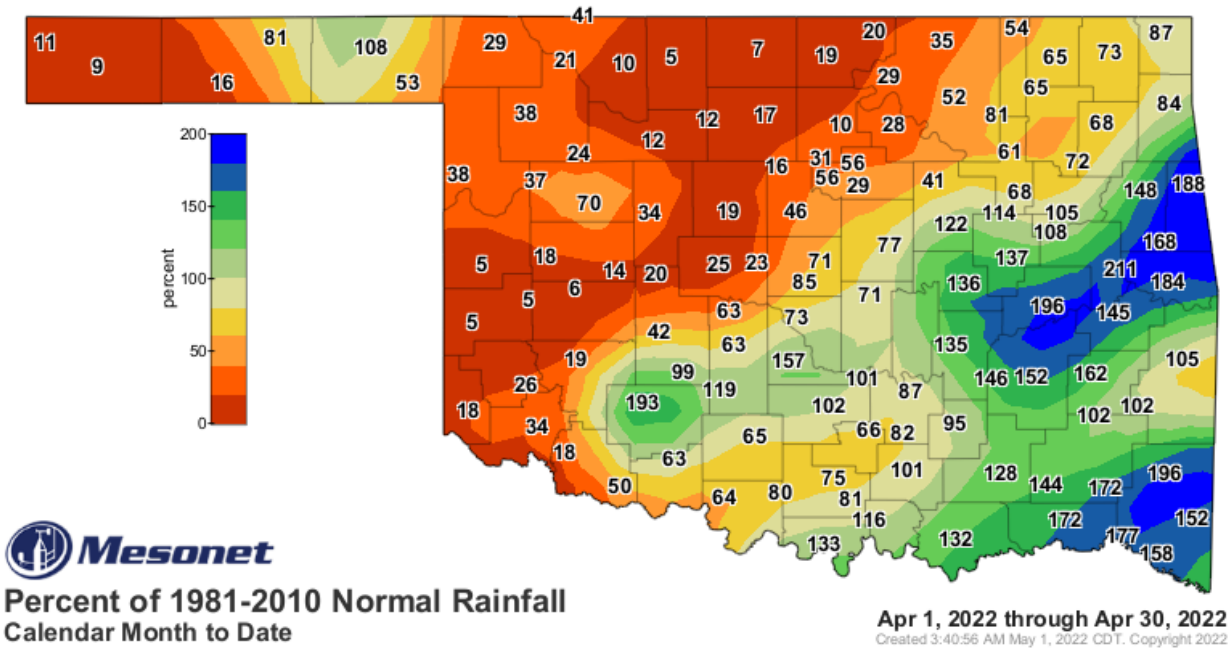
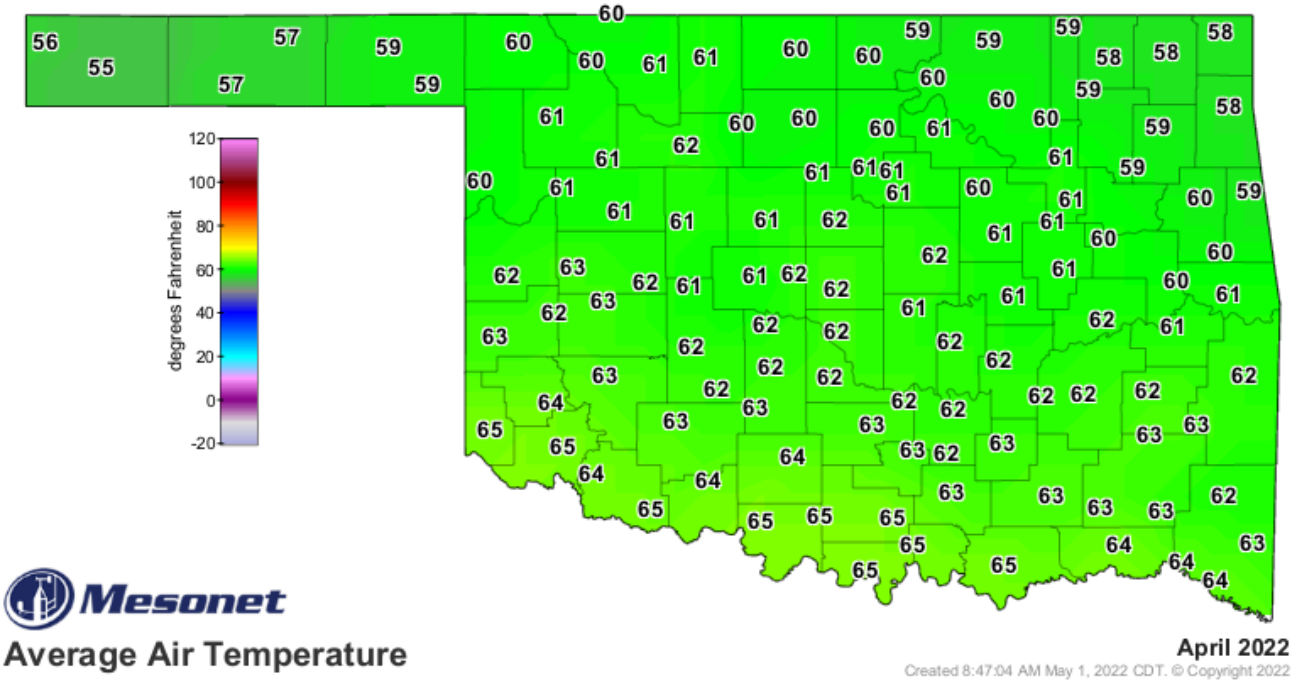
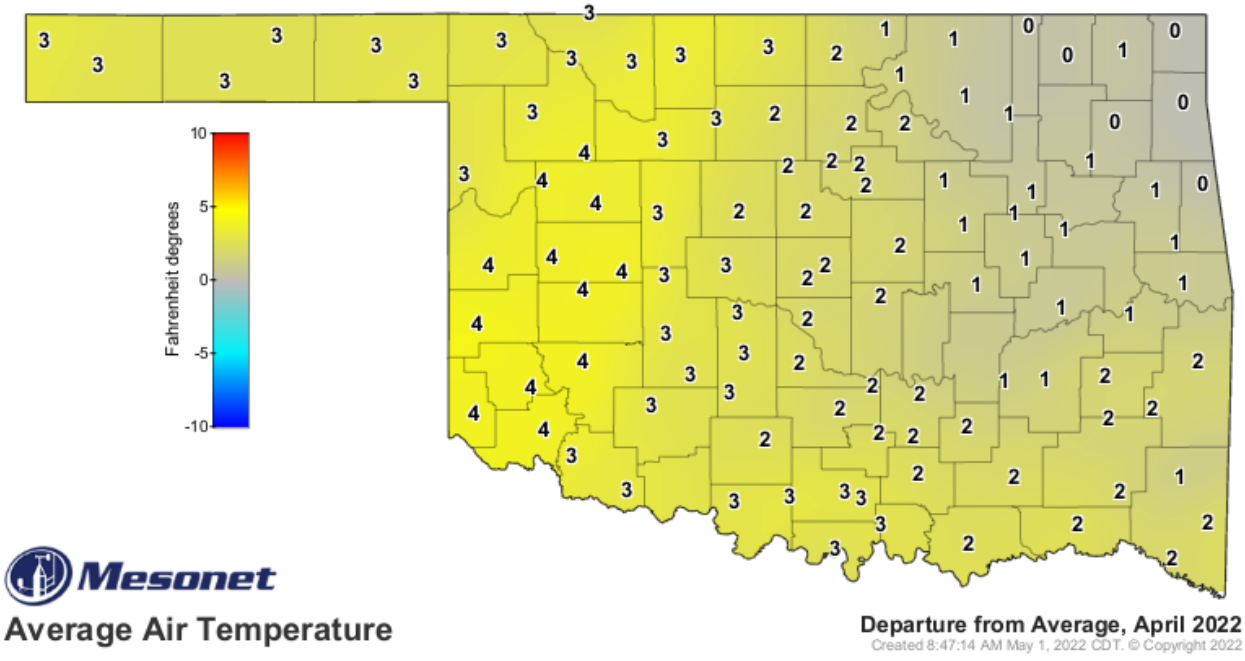
APRIL 2022 PERCENT OF NORMAL PRECIPITATION



APRIL 2022 AVERAGE TEMPERATURE



APRIL 2022 DEPARTURE FROM NORMAL TEMPERATURE

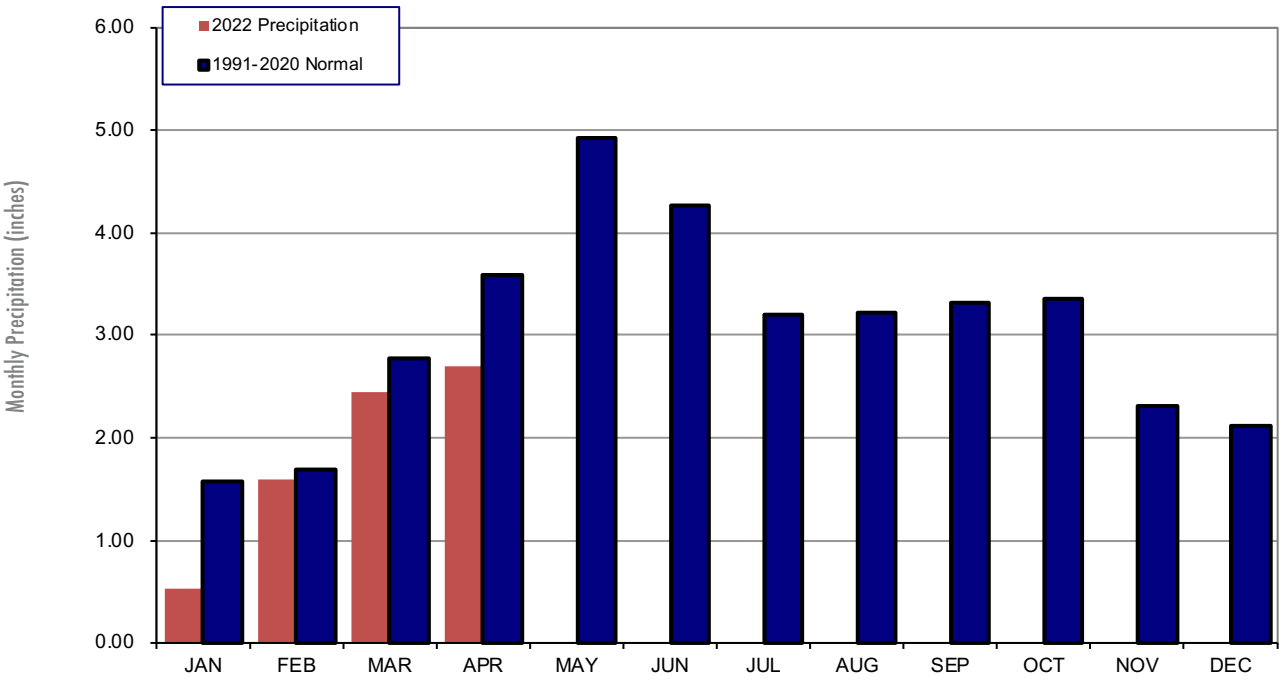


MESONET MONTHLY SUMMARY FOR APRIL 2022

NAME	MEAN TEMP	HIGH TEMP	HIGH DAY	LOW TEMP	LOW DAY	HDD	CDD	TOT PPT	HIGH 24-HR	HIGH DAY
PANHANDLE										
Arnett	60.5	94	21	33	14	202	67	.74	.30	1
Beaver	58.8	93	21	24	14	240	54	1.87	1.39	28
Boise City	54.8	89	22	19	14	318	13	.11	.11	27
Buffalo	59.2	94	12	27	14	237	63	.63	.38	28
Eva	*****	***	***	***	***	****	****	*****	*****	***
NORTH CENTRAL										
Alva	60.2	97	29	25	14	219	74	.25	.15	28
Blackwell	59.5	90	20	25	9	222	56	.66	.40	29
Breckinridge	59.7	89	20	26	9	221	61	.53	.28	10
Cherokee	60.2	98	29	26	9	219	76	.14	.09	28
Fairview	61.6	97	29	29	14	186	84	.32	.25	28
Freedom	60.3	95	12	28	14	210	69	.48	.19	23
Lahoma	60.2	91	29	28	9	207	63	.36	.27	28
NORTHEAST										
Bixby	60.6	83	12	28	9	178	46	2.37	.88	23
Burbank	59.4	90	20	25	9	219	52	1.11	.41	10
Copan	58.3	83	10	28	9	232	32	2.21	.58	30
Foraker	59.0	85	12	29	1	222	41	1.35	.44	10
Inola	58.9	83	22	27	9	218	35	3.07	.57	11
Jay	58.0	81	22	28	9	245	34	3.54	1.27	24
Miami	57.8	82	22	27	9	250	33	3.41	1.48	11
Nowata	57.3	82	21	23	9	262	32	2.61	.70	23
WEST CENTRAL										
Bessie	62.7	97	29	34	1	162	93	.14	.14	1
Butler	62.4	97	29	27	14	169	90	.42	.24	1
Camargo	60.2	96	12	25	9	219	75	.85	.59	28
Cheyenne	61.9	94	12	33	14	174	80	.11	.09	1
Elk City	62.6	97	29	33	9	154	82	.13	.11	1
CENTRAL										
Acme	62.8	94	20	30	14	151	84	3.89	1.64	23
Bristow	60.1	84	20	26	9	199	52	4.42	1.50	23
Lake Carl Blac	60.2	92	20	24	9	216	71	1.08	.60	23
Chandler	61.9	94	20	31	1	165	72	2.61	.97	23
Chickasha	62.2	96	20	30	9	167	82	2.06	.87	4
El Reno	60.4	93	20	28	9	212	75	.71	.33	23
Guthrie	61.8	92	20	32	9	172	76	1.45	.92	28
Kingfisher	60.8	92	20	26	14	209	83	.59	.52	28
Marena	61.1	92	20	30	9	185	68	1.92	1.41	23
Minco	62.2	93	20	35	1	158	73	1.87	1.58	23
Marshall	60.4	91	20	26	9	208	71	.52	.24	23
EAST CENTRAL										
Cookson	59.3	79	22	29	1	207	36	7.58	2.71	24
Eufaula	61.2	80	22	32	1	159	44	7.59	2.59	24
Haskell	59.9	83	22	30	9	183	30	4.00	1.41	24
Hectorville	61.1	82	12	34	1	160	43	4.14	1.44	23
Holdenville	61.7	83	20	33	9	152	53	5.28	2.42	24
McAlester	61.7	83	22	29	9	160	62	6.14	3.39	24
Okmulgee	60.2	82	22	28	1	188	45	5.50	1.56	24
SOUTHWEST										
Altus	64.9	100	29	34	14	123	121	.82	.33	19
Apache	62.4	94	20	34	1	156	79	3.12	1.29	4
Fort Cobb	62.3	94	20	32	14	164	84	1.23	.89	23
Grandfield	64.5	98	20	31	14	136	120	1.40	.48	4
Hinton	61.4	92	29	32	14	184	77	.52	.21	28
Hobart	62.9	97	29	30	14	157	94	.49	.40	1
SOUTH CENTRAL										
Ada	61.9	87	20	31	9	156	64	3.33	1.57	24
Ardmore	64.7	90	20	35	9	104	96	2.73	1.77	24
Burneyville	64.1	92	5	29	9	122	95	4.73	3.55	24
Byars	62.4	89	20	37	9	143	66	3.75	2.12	24
Centrahoma	62.6	85	20	30	9	139	68	4.05	2.73	24
Durant	64.2	85	20	35	9	100	77	5.11	3.88	24
Fittstown	62.0	87	20	29	9	154	63	3.15	1.81	24
Ketchum Ranch	63.9	95	20	33	9	123	91	2.22	.78	24
SOUTHEAST										
Antlers	62.5	84	11	28	9	136	62	6.03	2.80	24
Broken Bow	61.7	82	23	30	9	144	45	6.75	1.60	4
Clayton	62.0	81	11	28	9	150	60	5.21	1.79	24
Cloudy	61.8	81	11	29	9	139	43	7.43	3.83	24
Hugo	64.0	84	11	36	14	100	70	6.31	3.76	24
Idabel	62.9	82	5	31	9	118	56	6.53	2.96	4

NAME	MEAN TEMP	HIGH TEMP	HIGH DAY	LOW TEMP	LOW DAY	HDD	CDD	TOT PPT	HIGH 24-HR	HIGH DAY
Goodwell	56.9	90	22	24	8	276	32	.24	.10	23
Hooker	57.1	90	22	23	14	273	37	1.24	.75	28
Kenton	55.3	91	22	18	14	307	16	.13	.13	27
Slapout	59.4	94	21	33	14	224	55	1.02	.49	23
May Ranch	59.6	95	12	30	1	219	57	.95	.48	27
Medford	59.6	90	29	26	14	225	63	.20	.12	29
Newkirk	59.3	89	20	30	1	216	47	.77	.41	29
Red Rock	60.2	91	20	27	9	207	63	.34	.14	29
Seiling	60.9	96	12	28	14	204	82	.57	.53	28
Woodward	60.8	94	12	31	14	194	69	.83	.38	28
Pawnee	60.5	92	20	27	9	195	61	1.04	.24	10
Porter	60.4	82	22	29	9	176	37	3.92	1.16	24
Pryor	58.8	82	21	29	1	222	35	2.86	1.20	11
Skiatook	59.6	82	12	33	1	198	35	3.44	1.36	11
Talala	58.6	82	12	28	9	225	33	2.66	1.21	11
Tulsa	60.4	82	12	31	1	183	45	2.32	.79	11
Vinita	57.5	83	21	26	9	257	30	2.85	1.24	11
Wynona	59.6	85	12	27	9	208	46	2.38	.78	23
Erick	61.9	97	12	25	14	179	87	.10	.09	1
Putnam	61.2	93	29	32	1	187	74	1.87	1.77	28
Watonga	61.9	94	29	36	14	170	76	.95	.88	28
Weatherford	62.1	97	29	34	14	172	84	.35	.23	28
Norman	62.2	93	20	32	9	158	75	2.43	1.28	4
Oilton	59.3	85	20	27	9	221	51	1.51	.40	4
OKC East	62.2	93	20	32	9	164	79	2.56	2.09	23
Okemah	60.6	83	20	29	9	181	48	5.36	1.83	24
Perkins	61.1	92	20	28	9	184	66	.99	.25	29
Seminole	61.8	88	20	32	1	162	65	7.47	3.43	4
Shawnee	61.5	91	20	33	9	168	64	2.44	.63	23
Spencer	62.1	92	20	35	9	165	77	2.15	1.26	23
Stillwater	60.9	92	20	27	9	195	73	1.96	1.41	23
Washington	62.3	94	20	33	9	153	73	5.48	2.10	4
Yukon	62.3	93	20	35	9	165	83	.67	.21	28
Sallisaw	60.5	82	22	28	9	177	43	8.41	3.18	24
Stigler	60.8	82	21	29	9	166	41	6.45	2.93	24
Stuart	61.6	81	22	32	1	155	53	5.77	3.04	24
Tahlequah	59.0	80	21	26	9	214	34	6.15	1.96	24
Webbers Falls	59.3	80	22	28	9	195	25	8.81	2.50	24
Westville	58.3	80	22	29	9	231	30	8.72	2.50	24
Hollis	64.1	98	29	34	9	139	112	.41	.33	19
Mangum	63.1	99	29	24	14	156	100	.66	.47	1
Medicine Park	64.0	94	20	39	1	119	88	5.67	3.35	23
Tipton	64.4	99	29	31	14	142	124	.48	.31	1
Walters	64.2	96	20	35	9	122	98	1.81	.94	23
Lane	62.7	83	11	30	9	128	58	5.61	3.11	24
Madill	64.3	90	5	31	9	107	86	4.34	3.01	24
Newport	64.7	91	5	36	9	106	96	2.42	1.74	24
Pauls Valley	63.0	90	20	33	9	138	77	3.46	1.84	24
Ringling	64.8	93	20	36	9	109	102	2.37	1.04	4
Sulphur	62.7	88	5	28	9	146	77	2.41	1.11	4
Tishomingo	62.9	86	20	30	9	131	68	3.89	2.38	24
Waurika	65.1	97	20	32	9	108	112	1.95	.83	24
Mt Herman	60.7	79	30	28	9	167	39	8.98	4.52	24
Talihina	61.8	80	22	28	9	156	60	5.03	1.75	24
Valliant	62.9	82	22	30	9	122	59	7.32	2.55	4
Wilburton	61.8	83	11	27	9	162	65	7.78	3.32	24
Wister	60.5	81	22	27	1	190	56	4.71	1.42	24

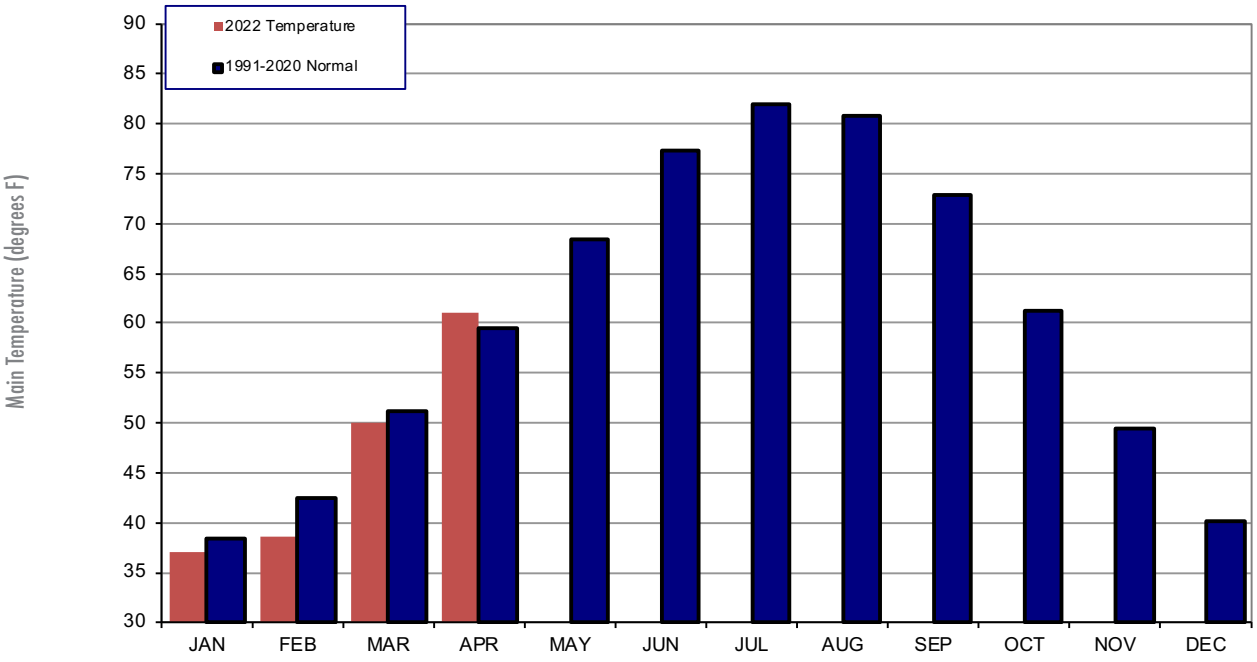
2022 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL



April 2022 Mesonet Precipitation Comparison

Climate Division	Precipitation (inches)	Departure from Normal (inches)	Rank since 1895	Wettest on Record (Year)	Driest on Record (Year)	Apr-21 (inches)
Panhandle	0.75	-0.94	26th Driest	5.31 (1900)	0.02 (1935)	0.16
North Central	0.49	-2.58	3rd Driest	7.14 (1999)	0.47 (2014)	1.30
Northeast	2.57	-1.90	38th Driest	10.82 (2017)	0.22 (1989)	3.65
West Central	0.55	-2.19	8th Driest	8.43 (1997)	0.16 (1996)	0.75
Central	2.46	-1.31	39th Driest	9.37 (1942)	0.28 (1989)	4.08
East Central	6.50	1.69	26th Wettest	11.32 (1957)	0.74 (1989)	6.80
Southwest	1.51	-1.38	33rd Driest	7.53 (1997)	0.14 (1989)	2.22
South Central	3.47	-0.29	60th Wettest	11.33 (1942)	0.40 (1903)	5.46
Southeast	6.55	1.44	29th Wettest	12.81 (1957)	0.80 (1987)	6.32
Statewide	2.70	-0.89	43rd Driest	8.32 (1942)	0.55 (1989)	3.43

2022 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL



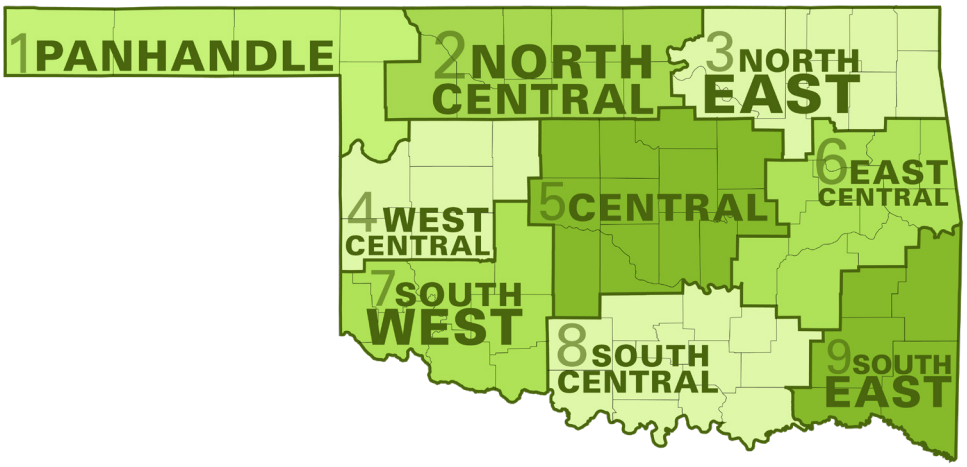
April 2022 Mesonet Temperature Comparison

Climate Division	Average Temp (F)	Departure from Normal (F)	Rank since 1895	Hottest on Record (Year)	Coldest on Record (Year)	Apr-21 (F)
Panhandle	57.8	2.2	27th Warmest	62.1 (1946)	48.8 (1983)	53.3
North Central	60.2	2.3	36th Warmest	64.4 (1981)	50.4 (1983)	56.2
Northeast	59.0	-0.1	62nd Warmest	65.7 (1954)	52.5 (1983)	57.6
West Central	61.9	3.2	20th Warmest	65.1 (2006)	52.2 (1983)	56.9
Central	61.4	1.3	43rd Warmest	66.9 (2006)	53.6 (1983)	58.2
East Central	60.4	-0.2	58th Coolest	67.8 (1896)	54.5 (1907)	58.6
Southwest	63.5	2.6	23rd Warmest	67.6 (2006)	54.9 (1997)	58.6
South Central	63.5	1.7	33rd Warmest	68.8 (1925)	56.2 (2018)	59.1
Southeast	62.1	1.2	46th Warmest	66.7 (2006)	55.3 (1983)	58.9
Statewide	61.0	1.5	39th Warmest	65.8 (2006)	53.2 (1983)	57.5

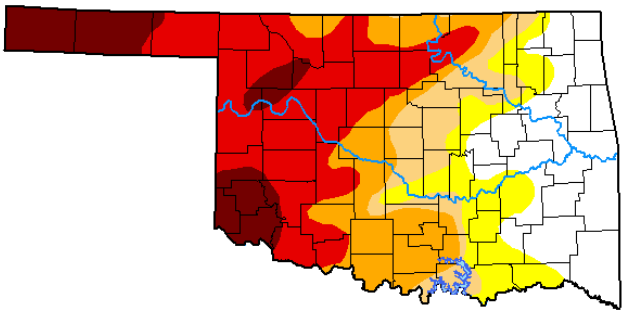
MESONET EXTREMES FOR APRIL 2022

Climate Division	High Temp (F)	Day	Station	Low Temp (F)	Day	Station	High Monthly Rainfall (inches)	Station	High Daily Rainfall (inches)	Day	Station
Panhandle	94	12th	Buffalo	18	14th	Kenton	1.87	Beaver	1.39	28th	Beaver
North Central	98	29th	Cherokee	25	9th	Blackwell	0.95	May Ranch	0.53	28th	Seiling
Northeast	92	20th	Pawnee	23	9th	Nowata	3.92	Porter	1.48	11th	Miami
West Central	97	29th	Butler	25	9th	Camargo	1.87	Putnam	1.77	28th	Putnam
Central	96	20th	Chickasha	24	9th	Lake Carl Blackwell	7.47	Seminole	3.43	4th	Seminole
East Central	83	20th	Holdenville	26	9th	Tahlequah	8.81	Webbers Falls	3.39	24th	McAlester
Southwest	100	29th	Altus	24	14th	Mangum	5.67	Medicine Park	3.35	23rd	Medicine Park
South Central	97	20th	Waurika	28	9th	Sulphur	5.61	Lane	3.88	24th	Durant
Southeast	84	11th	Antlers	27	1st	Wister	8.98	Mt Herman	4.52	24th	Mt Herman
Statewide	100	29th	Altus	18	14th	Kenton	8.98	Mt Herman	4.52	24th	Mt Herman

Oklahoma Climate Divisions



U.S. Drought Monitor
Oklahoma



April 26, 2022
(Released Thursday, Apr. 28, 2022)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	22.73	77.27	65.40	55.30	39.39	11.03
Last Week *04-19-2022*	19.25	80.75	72.70	57.56	36.00	9.43
3 Months Ago *01-25-2022*	3.91	96.09	88.23	77.66	49.17	2.90
Start of Calendar Year *01-04-2022*	5.02	94.98	88.14	72.26	40.44	0.00
Start of Water Year *09-28-2021*	6.45	93.55	73.23	23.72	2.65	0.00
One Year Ago *04-27-2021*	43.60	56.40	20.02	6.30	0.08	0.00

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

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droughtmonitor.unl.edu

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 November 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 November result in an artificially high or low value.

ADDITIONAL RESOURCES

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

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

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

SEASONAL OUTLOOKS
Climate Prediction Center:
http://www.cpc.ncep.noaa.gov/products/OUTLOOKS_index.shtml

CLIMATE CALENDARS AND OTHER LOCAL WEATHER AND CLIMATE INFORMATION
Oklahoma Climatological Survey:
http://climate.mesonet.org or http://climate.ok.gov/

OKLAHOMA CLIMATOLOGICAL SURVEY

Oklahoma Climatological Survey is the State Climate Office for Oklahoma

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