

Oklahoma Monthly Climate Summary

JANUARY 2018

The dry weather that plagued Oklahoma through the final three months of 2017 showed no signs of letting up during the first month of 2018. The lack of precipitation was especially prominent across western Oklahoma where 19 of the Oklahoma Mesonet's 120 stations received no precipitation for the month, and another 47 saw less than a quarter-inch. In some cases, the precipitation-free streak extended back to early October. The Mesonet sites at Woodward and Hooker had gone 113 consecutive days without a single drop of moisture by the end of January. Not coincidentally, drought was able to take a huge leap forward during January, and its impacts were significant. Wildfire danger became a daily worry, and Oklahoma's winter wheat crop suffered tremendously. The USDA listed Oklahoma's winter wheat crop condition at 79 percent poor or very poor by the end of January, up from 42 percent at the end of December and 10 percent at the end of November. Dry stock ponds and

The December-January statewide average of 1.4 inches was 2.22 inches below normal and the 12 driest such period on record.

January was a bit on the cool side with a statewide average temperature of 37.1 degrees, 0.6 degrees below normal to rank as the 58th coldest on record. The northwestern half of the state, under the influence of drought and strong southerly winds at times, experienced a warmer than normal January while the southeastern half was cooler than normal. The Panhandle was 1.1 degrees above normal, the 39th warmest on record for that region of the state. The southeast fell 2.6 degrees below normal to rank as their 29th coolest. Miami recorded the lowest temperature of the month with minus 8 degrees on the 17th. Miami's high temperature on the 16th was a bone-chilling 8 degrees. Eva led the state with a high of 82 degrees on the 30th.

January 2018 Statewide Extremes

Description	Extreme	Station	Day
High Temperature	82°F	Eva	30
Low Temperature	-8°F	Miami	17
High Precipitation	4.77 in.	Cloudy	
Low Precipitation	0.00 in.	Several	--

a lack of grazing led to reports of some cattle herds being partially liquidated. January's hazardous weather was not all confined to drought and wildfire, however. Oklahoma saw its first tornado warnings of the new year with possible twisters in LeFlore and McCurtain counties on Jan. 21, although no official touchdowns were reported in the preliminary storm reports.

According to preliminary Mesonet data, the January statewide average precipitation total was 0.48 inches, 1.08 inches below normal and the 18th driest January since records began in 1895. The Panhandle saw its second driest January on record, however, with an average total of 0.01 inches. Southeastern Oklahoma fared the best with an average total of 2.41 inches, 0.7 inches below normal. Cloudy led all Mesonet sites with 4.77 inches of rain for January. The December-January period was the driest on record for the Panhandle, north central and west central areas of the state.

January 2018 Statewide Statistics

Temperature

	Average	Depart.	Rank (1895-2018)
Month (January)	37.1°F	-0.6°F	58th Coolest
Season-to-Date (Dec-Jan)	39.1°F	0.8°F	45th Warmest

Precipitation

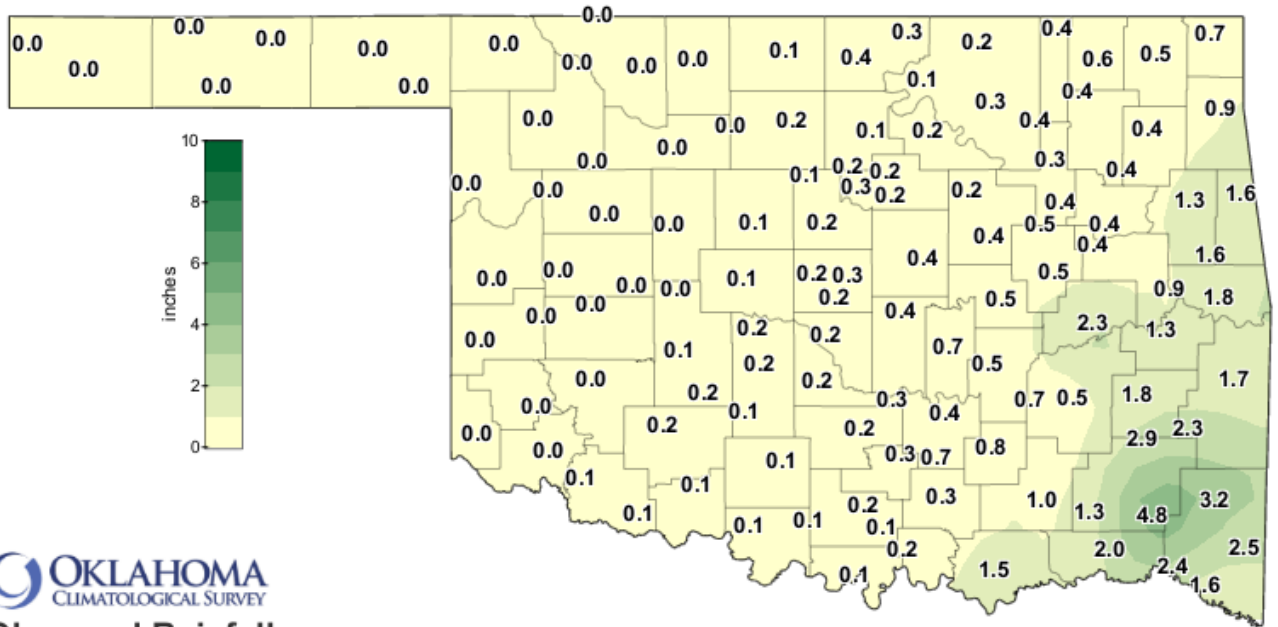
	Total	Depart.	Rank (1895-2018)
Month (January)	0.48 in.	-1.08 in.	18th Driest
Season-to-Date (Dec-Jan)	1.40 in.	-2.22 in.	12th Driest

Depart. = departure from 30-year normal

As noted previously, drought took a huge leap forward during January. According to the U.S. Drought Monitor, drought covered 76 percent of the state at the beginning of the month, but only 28 percent was considered "severe." By the end of January, the entire state was considered in at least "moderate" drought, a level not seen since March 26, 2013. More than 81 percent of the state was in at least severe drought, including 21 percent in the "extreme" category. The Drought Monitor's intensity scale slides from moderate-severe-extreme-exceptional, with exceptional being the worst classification.

The February temperature and precipitation outlooks from the Climate Prediction Center (CPC) call for increased odds of above normal temperatures across the Panhandle and far southwest, and below normal precipitation across the entire state. Those odds are a bit higher across southwestern Oklahoma. CPC's drought outlook for February see drought either persisting or intensifying across the entire state.

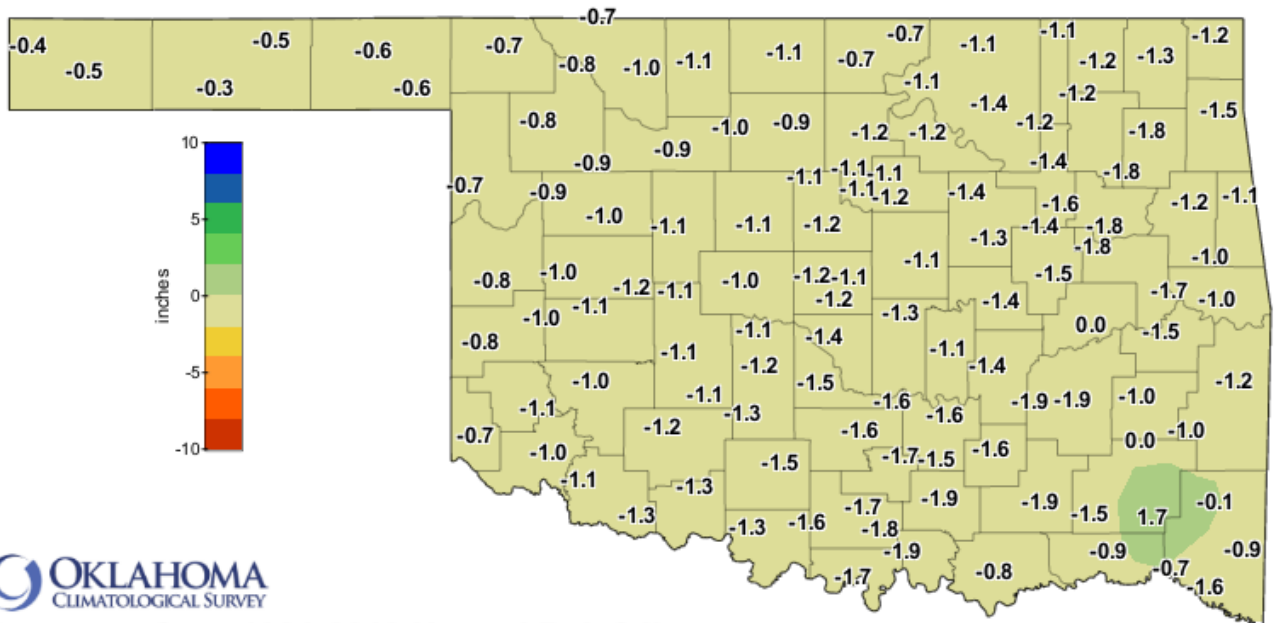
JANUARY 2018 OBSERVED PRECIPITATION



OKLAHOMA
CLIMATOLOGICAL SURVEY
Observed Rainfall
Current Month

Jan 01, 2018 through Jan 31, 2018
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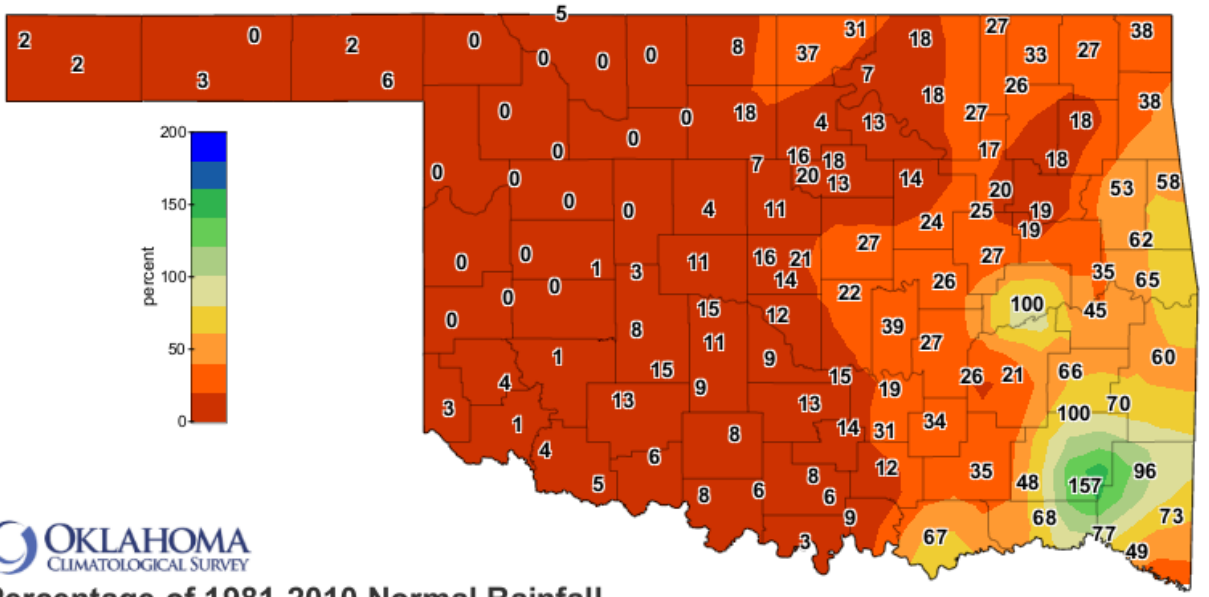
JANUARY 2018 DEPARTURE FROM NORMAL PRECIPITATION



OKLAHOMA
CLIMATOLOGICAL SURVEY
Departure from 1981-2010 Normal Rainfall
Current Month

Jan 01, 2018 through Jan 31, 2018
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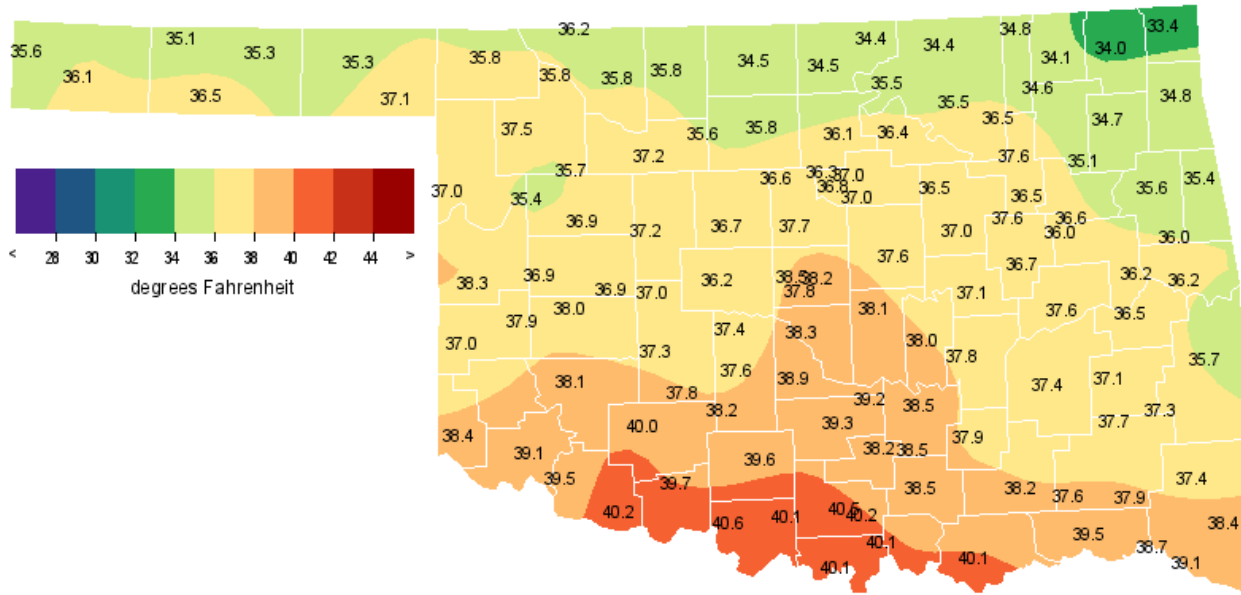
JANUARY 2018 PERCENT OF NORMAL PRECIPITATION



Percentage of 1981-2010 Normal Rainfall
Current Month

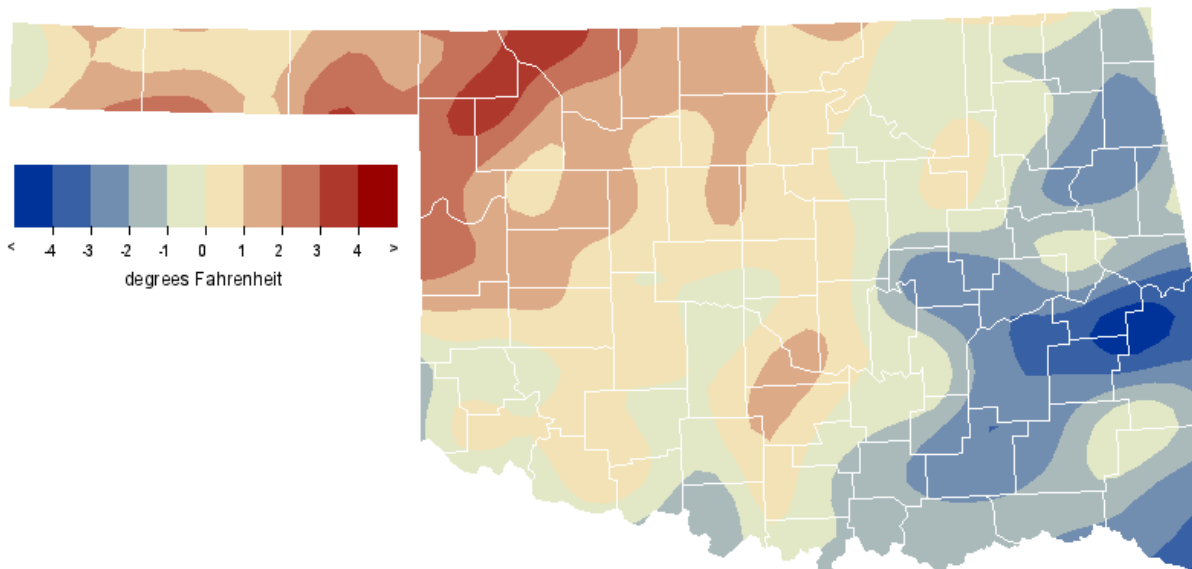
Jan 01, 2018 through Jan 31, 2018
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JANUARY 2018 AVERAGE TEMPERATURE



Jan 2018
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JANUARY 2018 DEPARTURE FROM NORMAL TEMPERATURE

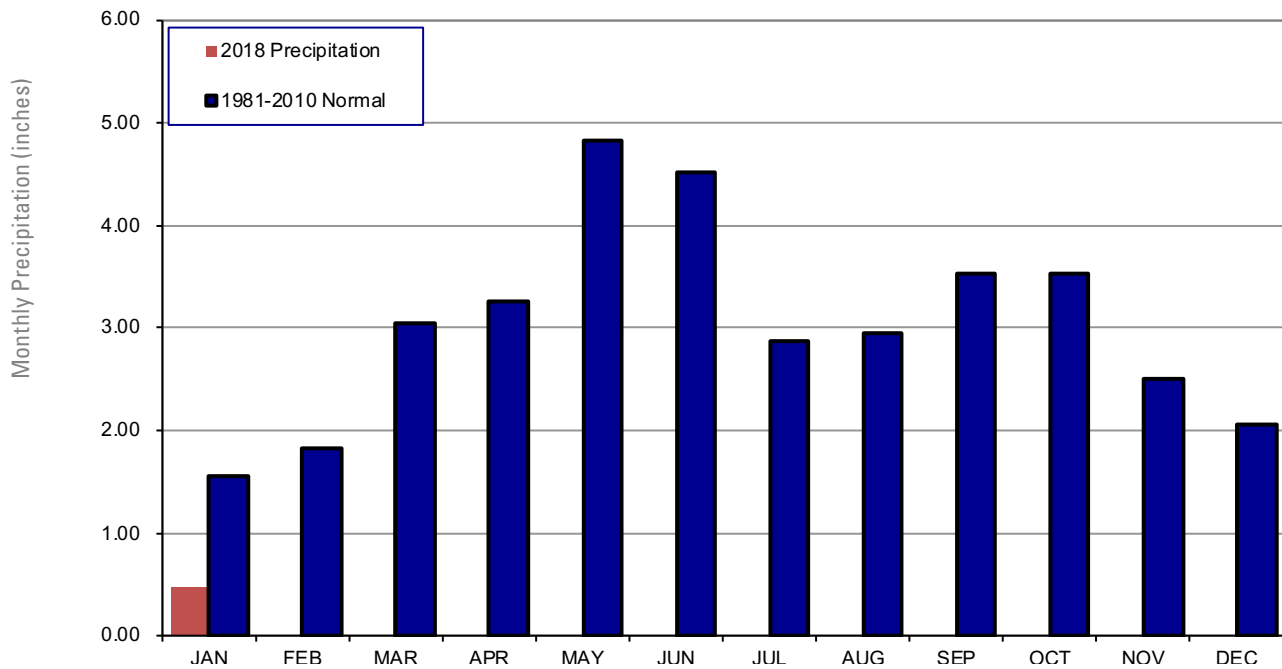


Jan 2018
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MESONET MONTHLY SUMMARY FOR JANUARY 2018

NAME	MEAN TEMP	HIGH TEMP	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY	NAME	MEAN TEMP	HIGH TEMP	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY		
PANHANDLE																					
Arnett	37.0	76	20	-3	1	867	0	.00	.00	1	Goodwell	36.5	81	30	-5	16	883	0	.01	.01	11
Beaver	35.3	77	10	-5	1	920	0	.01	.01	13	Hooker	35.3	78	20	-4	1	920	0	.00	.00	1
Boise City	36.1	80	30	-5	16	896	0	.01	.01	21	Kenton	35.6	80	30	-4	16	912	0	.01	.01	21
Buffalo	35.8	72	10	-6	17	906	0	.00	.00	1	Slapout	37.0	76	10	-5	1	867	0	.04	.02	14
Eva	35.1	82	30	-7	1	927	0	.00	.00	1											
NORTH CENTRAL																					
Alva	35.8	68	25	-4	1	906	0	.00	.00	1	May Ranch	36.2	69	25	-5	1	894	0	.04	.04	11
Blackwell	34.5	67	21	-1	1	945	0	.40	.16	26	Medford	34.6	66	21	0	1	941	0	.09	.08	11
Breckinridge	35.8	68	21	0	17	905	0	.20	.20	26	Newkirk	34.3	68	21	-3	1	950	0	.30	.15	7
Cherokee	35.8	68	26	-2	1	906	0	.00	.00	1	Red Rock	36.0	70	21	1	1	898	0	.05	.04	7
Fairview	37.3	69	21	-1	1	860	0	.00	.00	1	Seiling	35.8	67	21	-3	1	906	0	.00	.00	1
Freedom	35.8	70	25	-5	16	905	0	.00	.00	1	Woodward	37.5	69	20	-4	1	853	0	.00	.00	1
Lahoma	35.6	69	21	-1	1	911	0	.00	.00	1											
NORTHEAST																					
Bixby	36.5	72	21	2	17	885	0	.38	.37	7	Pawnee	36.3	71	21	0	17	889	0	.18	.16	7
Burbank	35.6	71	21	-1	17	913	0	.08	.06	7	Porter	36.6	72	21	3	17	881	0	.42	.33	7
Copan	34.8	70	21	-1	1	936	0	.41	.27	7	Pryor	34.7	72	21	1	1	938	0	.39	.33	7
Foraker	34.4	69	21	-2	1	949	0	.23	.19	7	Skiatook	36.4	69	21	0	1	886	0	.43	.33	7
Inola	35.1	72	21	2	17	926	0	.38	.35	7	Talala	34.6	71	21	0	1	943	0	.44	.36	7
Jay	34.8	72	21	-4	17	937	0	.92	.45	7	Tulsa	37.6	71	21	2	1	851	0	.29	.28	7
Miami	33.3	70	21	-8	17	982	0	.73	.48	7	Vinita	33.9	70	21	-5	17	964	0	.49	.45	7
Nowata	34.1	72	21	-2	17	959	0	.56	.49	7	Wynona	35.5	71	21	0	1	914	0	.31	.25	7
WEST CENTRAL																					
Bessie	37.9	70	21	2	1	839	0	.00	.00	1	Erick	37.0	71	30	1	16	866	0	.00	.00	1
Butler	36.8	70	21	-1	17	874	0	.00	.00	1	Putnam	36.9	68	21	-2	1	871	0	.00	.00	1
Camargo	35.3	67	21	-4	17	919	0	.00	.00	1	Watonga	37.3	68	21	0	1	860	0	.00	.00	1
Cheyenne	38.3	69	30	0	1	829	0	.00	.00	1	Weatherford	36.9	68	21	1	1	870	0	.01	.01	7
Elk City	37.9	69	21	3	1	841	0	.00	.00	1											
CENTRAL																					
Acme	38.2	72	31	0	17	829	0	.13	.07	7	Marshall	36.6	69	21	2	17	881	0	.08	.07	7
Bowlegs	38.0	74	21	0	17	838	0	.70	.64	7	Norman	38.3	72	31	5	17	828	0	.19	.18	7
Bristow	36.9	73	21	-1	17	870	0	.41	.37	7	Oilton	36.5	72	21	0	17	885	0	.23	.22	7
Lake Carl Blac	36.3	69	21	-1	17	890	0	.21	.21	7	OKC East	37.8	70	21	4	17	843	0	.20	.19	7
Chandler	37.6	73	21	2	17	848	0	.39	.35	7	OKC North	38.5	70	21	4	1	822	0	.22	.20	7
Chickasha	37.5	73	31	2	17	852	0	.15	.10	7	Okemah	37.1	72	21	1	17	864	0	.51	.49	7
El Reno	36.1	70	21	0	17	896	0	.12	.08	7	Perkins	37.0	70	21	2	1	868	0	.17	.16	7
Guthrie	37.7	69	21	3	1	846	0	.15	.14	7	Shawnee	38.0	72	21	4	1	836	0	.36	.32	7
Kingfisher	36.6	70	21	3	17	879	0	.05	.05	7	Spencer	38.2	71	21	3	17	831	0	.31	.28	7
Marena	36.8	69	21	2	1	876	0	.26	.25	7	Stillwater	37.0	70	21	2	17	868	0	.24	.20	7
Minco	37.4	70	31	4	1	855	0	.19	.15	7	Washington	38.8	73	31	2	17	812	0	.15	.14	7
EAST CENTRAL																					
Cookson	35.9	73	21	0	17	901	0	1.61	1.15	21	Sallisaw	36.2	74	21	3	17	892	0	1.78	1.00	21
Eufaula	37.7	71	21	4	17	848	0	2.32	1.57	21	Stigler	36.4	75	21	2	17	887	0	1.25	.78	7
Haskell	36.0	72	21	2	17	898	0	.42	.38	7	Stuart	*****	***	***	***	***	*****	*****	.66	.33	7
Hectorville	37.7	72	21	3	1	848	0	.47	.44	7	Tahlequah	35.6	71	21	0	17	912	0	1.34	.89	21
Holdenville	37.8	72	21	4	17	842	0	.52	.47	7	Webbers Falls	36.2	75	21	3	17	892	0	.90	.65	7
McAlester	37.4	71	21	1	17	857	0	.50	.41	7	Westville	35.4	72	21	-1	17	916	0	1.57	.85	21
Okmulgee	36.7	71	21	1	17	877	0	.53	.50	7											
SOUTHWEST																					
Altus	39.1	75	31	4	17	804	0	.01	.01	25	Hollis	38.4	77	20	0	16	825	0	.02	.02	25
Apache	37.8	72	31	5	1	844	0	.19	.08	7	Mangum	*****	***	***	***	***	*****	*****	.04	.03	10
Fort Cobb	37.3	69	21	1	17	859	0	.09	.06	25	Medicine Park	40.0	72	31	5	1	776	0	.19	.09	10
Grandfield	40.2	78	31	5	16	768	0	.06	.05	25	Tipton	39.5	77	31	2	17	789	0	.05	.04	25
Hinton	36.9	69	21	2	16	870	0	.03	.03	7	Walters	39.8	76	31	4	17	783	0	.08	.03	7
Hobart	38.2	70	21	1	17	832	0	.01	.01	10											
SOUTH CENTRAL																					
Ada	38.5	74	31	0	17	822	0	.37	.31	7	Lane	38.1	72	21	4	17	833	0	.99	.46	7
Ardmore	40.2	76	31	4	17	769	0	.12	.10	7	Madill	40.0	75	31	3	17	775	1	.19	.16	7
Burneyville	40.1	78	31	2	17	774	1	.06	.04	7	Newport	40.4	77	31	5	17	762	0	.15	.11	7
Byars	39.2	74	21	4	17	799	0	.28	.27	7	Pauls Valley	39.3	75	31	3	17	798	0	.24	.22	7
Centrahoma	37.8	74	21	1	17	843	0	.82	.61	7	Ringling	40.1	78	31	3	17	772	0	.10	.08	7
Durant	40.1	73	21	7	17	772	0	1.53	.84	7	Sulphur	38.3	75	31	-1	17	828	0	.28	.24	7
Fittstown	38.4	73	31	1	17	824	0	.66	.52	7	Tishomingo	38.5	74	31	2	17	821	0	.26	.23	7
Ketchum Ranch	39.5	75	31	3	17	789	0	.14	.08	7	Waurika	40.6	80	31	3	17	756	0	.11	.07	7
SOUTHEAST																					
Antlers	37.6	73	21	4	17	850	0	1.33	.78	27	Mt Herman	37.5	69	21	3	17	853	0	3.20	1.77	21
Broken Bow	38.5	70	21	5	17	823	0	2.52	.94	21	Talihina	37.2	73	21	3	17	861	0	2.27	.84	21
Clayton	37.7	72	21	4	17	846	0	2.91	1.52	21	Valliant	38.7	74	21	4	17	816	0	2.26	.97	21
Cloudy	38.0	71	21	4	17	838	0	4.77	3.48	21	Wilburton	37.2	73	21	3	17	863	0	1.82	1.06	21
Hugo	39.5	73	21	6	17	790	0	1.98	1.17	21	Wister	35.7	74	21	1	17	908	0	1.74	.62	21
Idabel	39.1	73	21	6	17	804	0	1.57	.56	7											

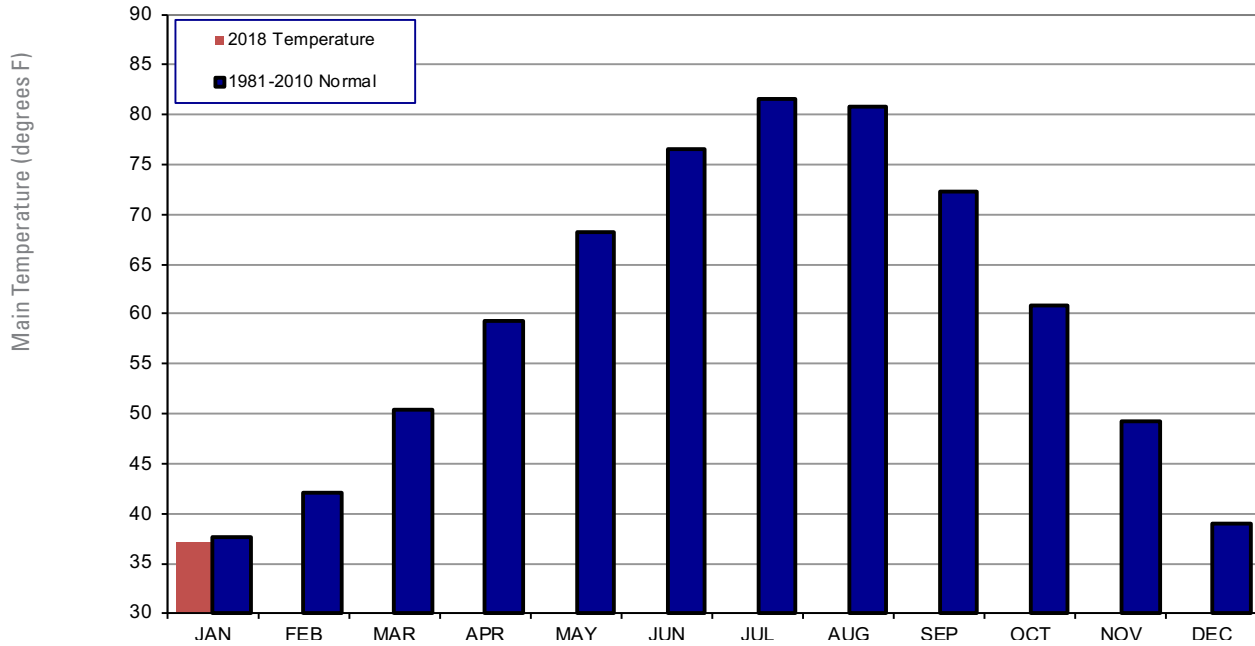
2018 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL



January 2018 Mesonet Precipitation Comparison

Climate Division	Precipitation (inches)	Departure from Normal (inches)	Rank since 1895	Wettest on Record (Year)	Driest on Record (Year)	Jan-17 (inches)
Panhandle	0.01	-0.53	2nd Driest	1.94 (2017)	0.00 (1923)	1.94
North Central	0.08	-0.89	9th Driest	4.16 (1949)	0.00 (1986)	3.15
Northeast	0.42	-1.30	13th Driest	6.87 (1916)	0.01 (1986)	3.18
West Central	0.00	-0.91	3rd Driest	3.74 (1949)	0.00 (1976)	2.59
Central	0.25	-1.19	16th Driest	5.58 (1949)	0.00 (1986)	2.44
East Central	1.07	-1.35	30th Driest	11.21 (1916)	0.04 (1986)	2.22
Southwest	0.07	-1.05	9th Driest	4.48 (1949)	0.00 (1912)	1.94
South Central	0.39	-1.61	15th Driest	7.70 (1916)	0.03 (1986)	2.91
Southeast	2.40	-0.71	53rd Driest	11.13 (1949)	0.20 (1943)	2.83
Statewide	0.48	-1.08	18th Driest	5.35 (1949)	0.03 (1986)	2.59

2018 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL



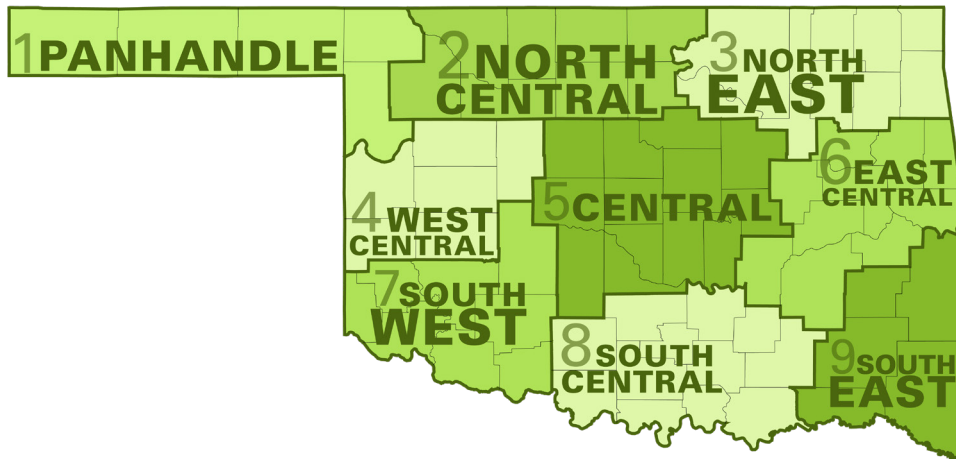
January 2018 Mesonet Temperature Comparison

Climate Division	Average Temp (F)	Departure from Normal (F)	Rank since 1895	Hottest on Record (Year)	Coldest on Record (Year)	Jan-17 (F)
Panhandle	36.0	1.1	39th Warmest	42.9 (2006)	19.7 (1940)	35.6
North Central	35.8	0.7	43rd Warmest	45.0 (2006)	18.8 (1940)	37.7
Northeast	35.3	-0.5	59th Coolest	46.2 (2006)	20.6 (1940)	39.9
West Central	37.2	0.2	49th Warmest	46.1 (2006)	21.3 (1930)	39.1
Central	37.4	-0.5	62nd Warmest	47.7 (2006)	22.8 (1930)	41.0
East Central	36.6	-2.0	38th Coolest	48.0 (1923)	24.8 (1918)	42.8
Southwest	38.7	-0.7	61st Warmest	48.1 (2006)	23.6 (1930)	42.0
South Central	39.4	-1.4	52nd Coolest	49.7 (1923)	27.5 (1930)	44.2
Southeast	37.9	-2.5	29th Coolest	48.7 (1907)	27.7 (1918)	45.7
Statewide	37.1	-0.6	58th Coolest	46.8 (2006)	23.7 (1940)	40.8

MESONET EXTREMES FOR JANUARY 2018

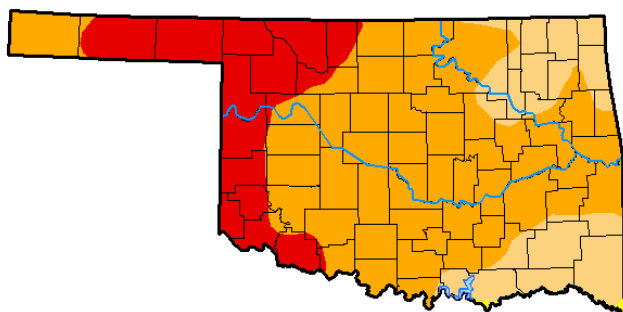
Climate Division	High Temp (F)	Day	Station	Low Temp (F)	Day	Station	High Monthly Rainfall (inches)	Station	High Daily Rainfall (inches)	Day	Station
Panhandle	82	30th	Eva	-7	1st	Eva	0.04	Slapout	0.02	14th	Slapout
North Central	70	25th	Freedom	-5	16th	Freedom	0.40	Blackwell	0.20	26th	Breckinridge
Northeast	72	21st	Bixby	-8	17th	Miami	0.92	Jay	0.49	7th	Nowata
West Central	71	30th	Erick	-4	17th	Camargo	0.01	Weatherford	0.01	7th	Weatherford
Central	74	21st	Bowlegs	-1	17th	Lake Carl Blackwell	0.70	Bowlegs	0.64	7th	Bowlegs
East Central	75	21st	Stigler	-1	17th	Westville	2.32	Eufaula	1.57	21st	Eufaula
Southwest	78	31st	Grandfield	0	16th	Hollis	0.19	Medicine Park	0.09	10th	Medicine Park
South Central	80	31st	Waurika	-1	17th	Sulphur	1.53	Durant	0.84	7th	Durant
Southeast	74	21st	Wister	1	17th	Wister	4.77	Cloudy	3.48	21st	Cloudy
Statewide	82	30th	Eva	-8	17th	Miami	4.77	Cloudy	3.48	21st	Cloudy

Oklahoma Climate Divisions



U.S. Drought Monitor Oklahoma

January 30, 2018
(Released Thursday, Feb. 1, 2018)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	99.76	81.45	21.11	0.00
Last Week <small>01-23-2018</small>	0.00	100.00	99.17	52.62	14.56	0.00
3 Months Ago <small>10-31-2017</small>	77.85	22.15	2.75	0.00	0.00	0.00
Start of Calendar Year <small>01-02-2018</small>	0.00	100.00	77.15	38.76	0.00	0.00
Start of Water Year <small>09-26-2017</small>	64.46	35.54	0.77	0.00	0.00	0.00
One Year Ago <small>01-31-2017</small>	4.44	95.56	79.46	30.95	3.90	0.00

Intensity:

- 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. See accompanying text summary for forecast statements.

Author:
Richard Heim
NCEI/NOAA



<http://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 is the State Climate Office for Oklahoma

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