

April took its penchant for widely varying weather to near satirical extremes across Oklahoma. Floods, tornadoes, drought and blizzards – Mother Nature pulled out all the stops to give Oklahoma nearly the entire gamut of weather hazards. As many as six separate storm systems traversed the state during April, but the worst was saved for last. A powerful upper-level storm impacted state from the 28th through the 30th. Widespread rainfall amounts of 3-6 inches produced flooding from southwestern through northeastern Oklahoma. Portions of eastern Oklahoma received more than 8 inches over the two-day period. Numerous water rescues were necessary across the state. Severe storms produced large hail, damaging winds and a few tornadoes throughout the event. The historic arch at the State Fairgrounds in Oklahoma City was toppled by winds gusting to over 80 mph. Downed trees and power lines led to 40,000 electric utility customers losing power at the height of the storm. Several

ranged from 1.82 inches at Erick in far western Oklahoma to 15.56 inches at Tahlequah in the east. Eighty-seven of the 121 Mesonet sites recorded at least 5 inches of rain, and 25 of those stations recorded more than 10 inches. All but seven Mesonet sites recorded at least 3 inches. Northeast Oklahoma saw its wettest April on record with an average of 11.3 inches, shattering the previous record of 9.27 inches set back in 1942. Tulsa broke its record for April rainfall with 10.44 inches, eclipsing the 9.33 inches from 2008. In addition to the snow received at the end of the month, the Panhandle recorded another 4-8 inches on April 2, exceeding their totals for the five previous months combined. The robust April precipitation totals propelled the January-April statewide average to the sixth wettest on record at 14.02 inches.

Despite the momentary bouts with winter, April's statewide average temperature still managed to finish 1.1 degrees

### April 2017 Statewide Extremes

Description	Extreme	Station	Day
High Temperature	94°F	Beaver	19
Low Temperature	26°F	Eva	30
High Precipitation	15.56 in.	Tahlequah	--
Low Precipitation	1.82 in.	Erick	--

tornadoes were also reported with the storms across eastern Oklahoma. While it was flooding across the main body of the state, the Panhandle was experiencing an old fashioned High Plains blizzard. More than a foot of snow was reported in the far western Panhandle, while 4-8 inches fell farther to the east. The Cimarron County sheriff's department reported 15 inches of snow and drifts of 5 feet. The snow was whipped by winds gusting up to 70 mph on Sunday to create white-out conditions, closing roads and stranding travelers. Blizzard warnings were issued for Cimarron and Texas counties. Due to the scope of the storm system across the state, Governor Mary Fallin declared a state of emergency for all 77 counties.

Each succeeding system during the month added moisture to an already saturated Oklahoma. According to preliminary data from the Oklahoma Mesonet, the statewide average precipitation total was 6.82 inches, 3.56 inches above normal and the third wettest April since records began in 1895. Totals

### April 2017 Statewide Statistics

#### Temperature

	Average	Depart.	Rank (1895-2017)
Month (April)	60.4°F	1.1°F	44th Warmest
Season-to-Date (Mar-Apr)	58.2°F	3.5°F	8th Warmest
Year-to-Date (Jan-Apr)	51.9°F	4.5°F	3rd Warmest

#### Precipitation

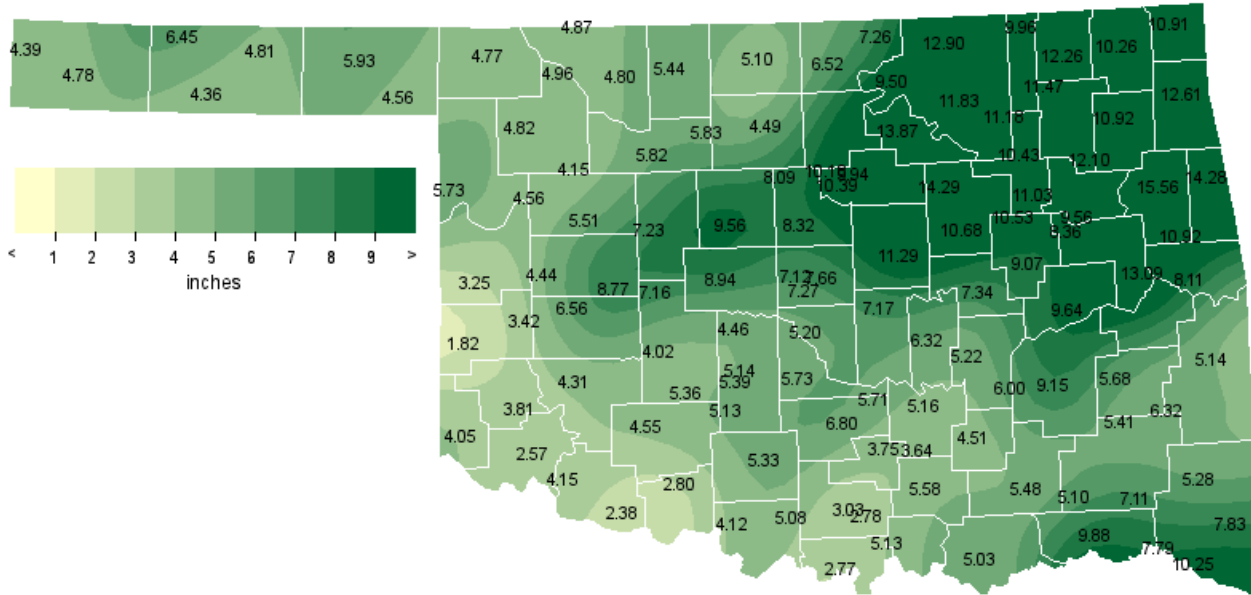
	Total	Depart.	Rank (1895-2017)
Month (April)	6.82 in.	3.56 in.	3rd Wettest
Season-to-Date (Mar-Apr)	9.37 in.	3.07 in.	42nd Wettest
Year-to-Date (Jan-Apr)	14.02 in.	4.33 in.	6th Wettest

Depart. = departure from 30-year normal

above normal at 60.4 degrees, the 44th warmest April on record. The highest temperature recorded was 94 degrees at Beaver on the 19th. The lowest temperature, 28 degrees, was recorded at Kenton on April 2 and again at Eva on the 23rd. The January-April statewide average temperature was 51.9 degrees, 4.5 degrees above normal and the third warmest such period on record.

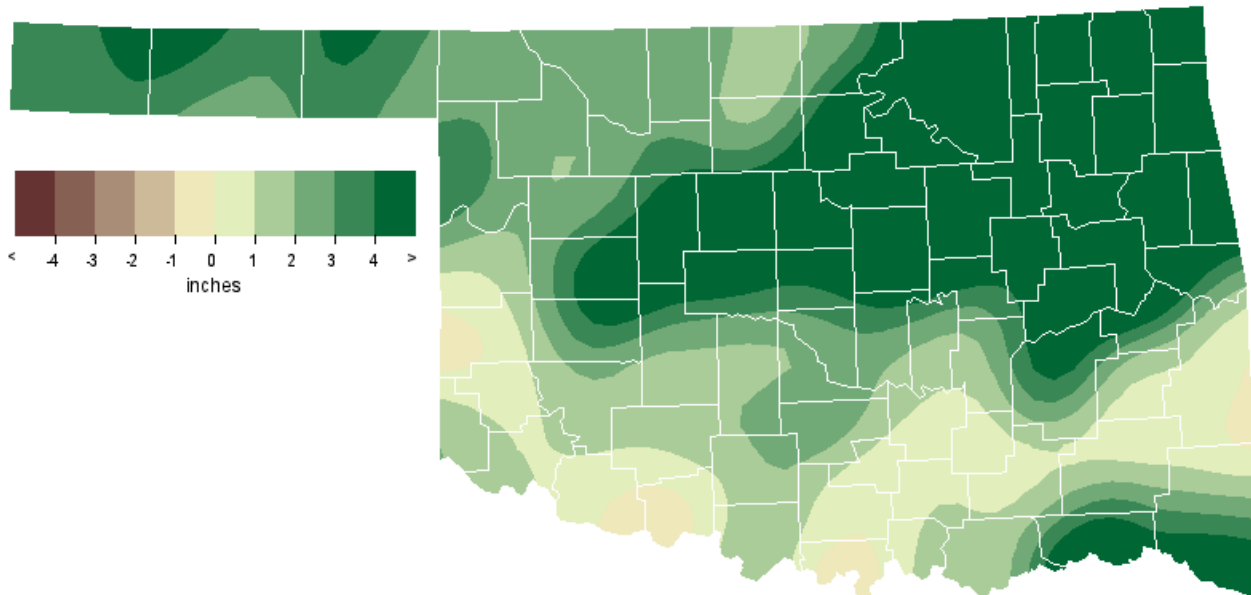
Drought took a major hit during April. The final U.S. Drought Monitor map of the month depicted a mere 17% of the state experiencing drought, a drop from 78% on March's final map. That is the smallest percentage of the state in drought since Oct. 11, 2016. A portion of the drought that remained received significant rainfall during the month's final days, so more drought removal is likely.

## APRIL 2017 OBSERVED PRECIPITATION



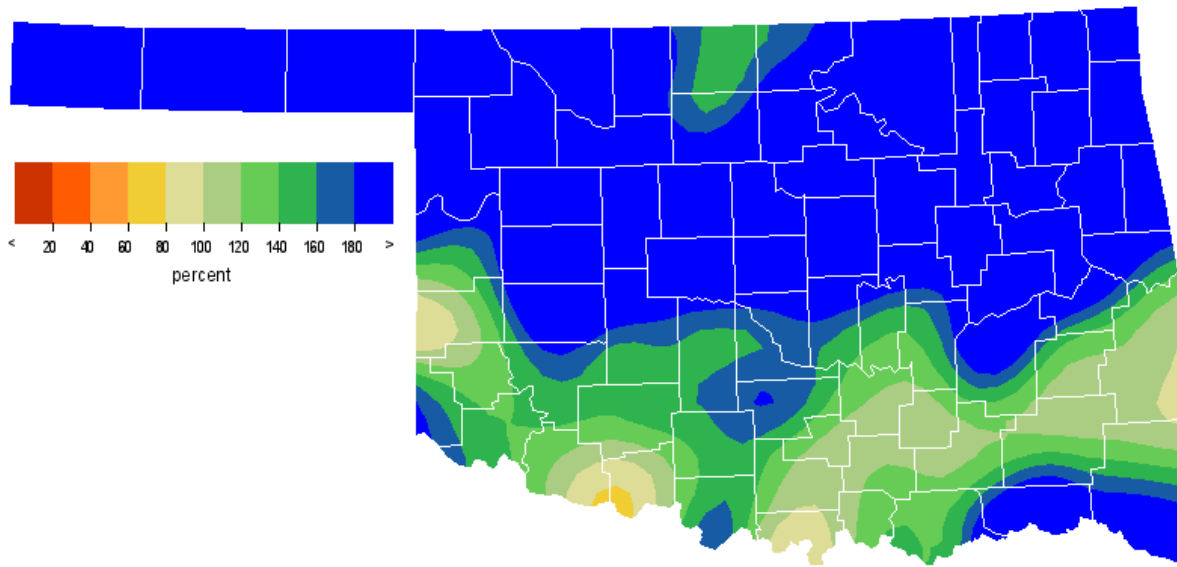
Apr 2017  
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## APRIL 2017 DEPARTURE FROM NORMAL PRECIPITATION



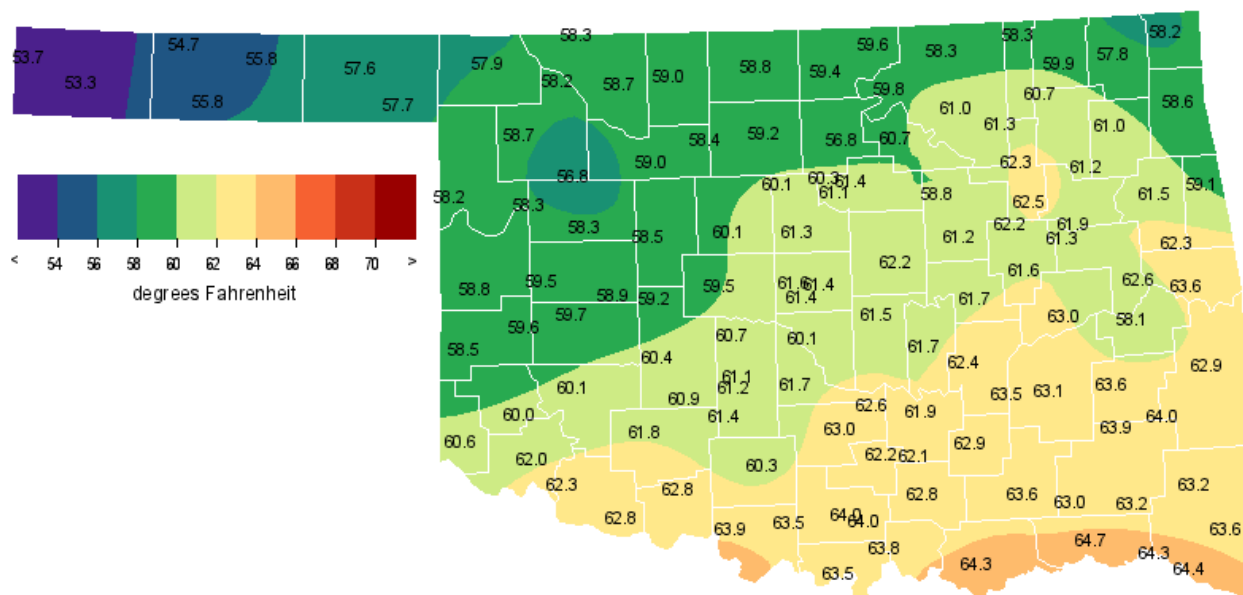
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# APRIL 2017 PERCENT OF NORMAL PRECIPITATION



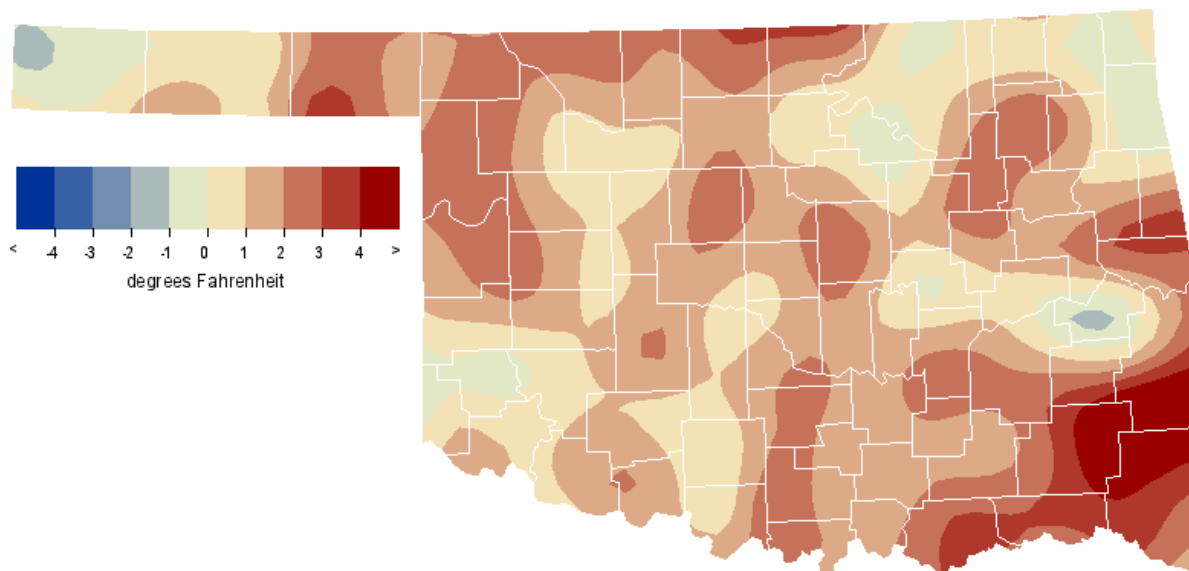
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## APRIL 2017 AVERAGE TEMPERATURE



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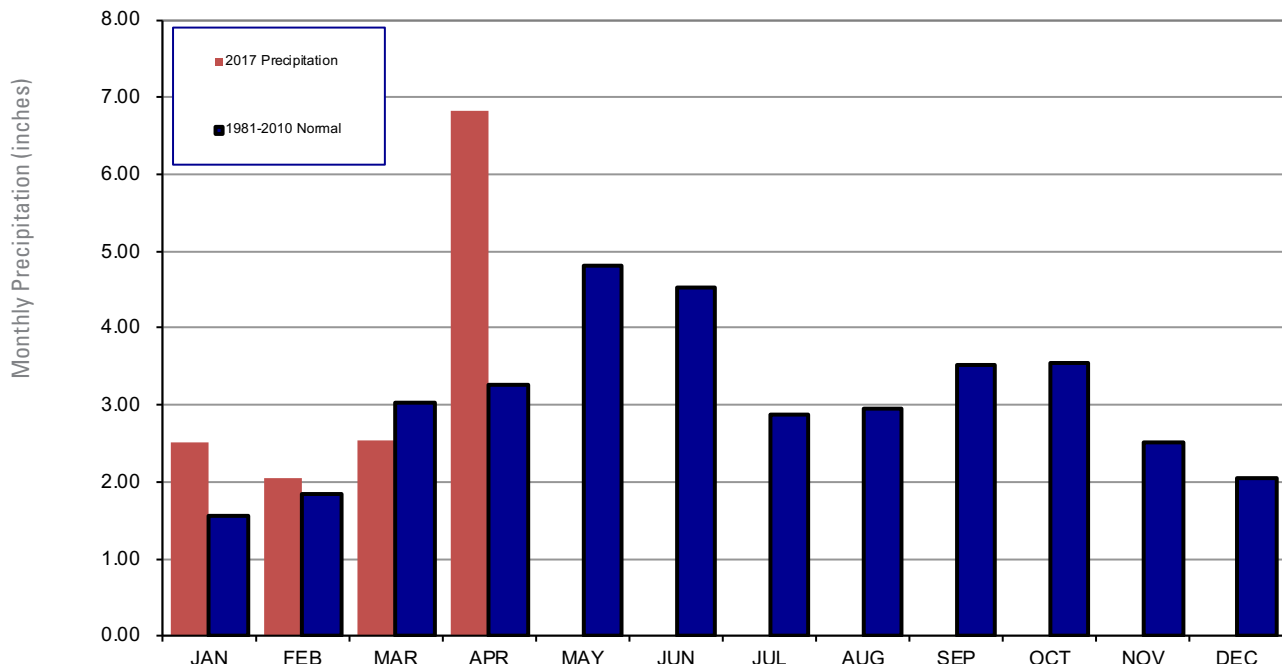
## APRIL 2017 DEPARTURE FROM NORMAL TEMPERATURE



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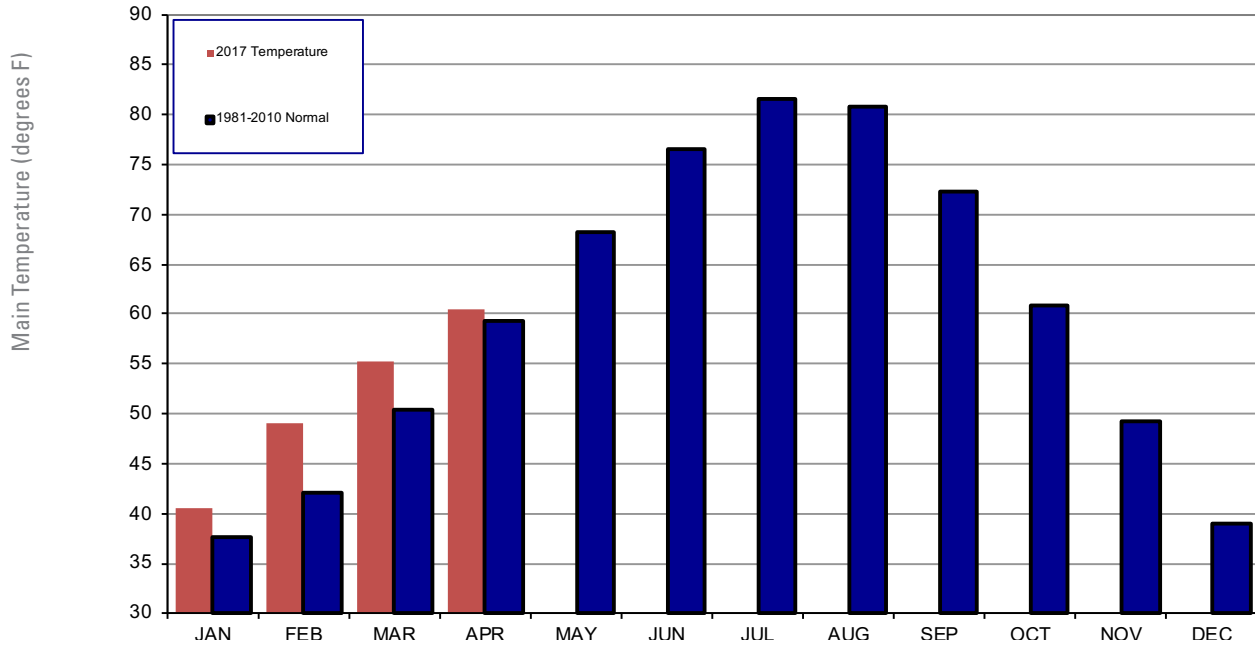
## 2017 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL



### April 2017 Mesonet Precipitation Comparison

Climate Division	Precipitation (inches)	Departure from Normal (inches)	Rank since 1895	Wettest on Record (Year)	Driest on Record (Year)	Apr-16 (inches)
Panhandle	5.20	3.54	2nd Wettest	5.31 (1900)	0.02 (1935)	4.10
North Central	5.34	2.52	10th Wettest	7.14 (1999)	0.47 (2014)	4.64
Northeast	11.30	7.23	1st Wettest	9.06 (1942)	0.22 (1989)	5.47
West Central	5.06	2.65	9th Wettest	8.43 (1997)	0.16 (1996)	3.78
Central	7.98	4.63	3rd Wettest	9.37 (1942)	0.28 (1989)	6.47
East Central	9.99	5.76	3rd Wettest	11.32 (1957)	0.74 (1989)	7.14
Southwest	4.11	1.48	21st Wettest	7.53 (1997)	0.14 (1989)	6.36
South Central	4.62	1.00	35th Wettest	11.33 (1942)	0.40 (1903)	7.88
Southeast	6.89	2.41	26th Wettest	12.81 (1957)	0.80 (1987)	9.29
Statewide	6.82	3.56	3rd Wettest	8.32 (1942)	0.55 (1989)	6.12

## 2017 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL



### April 2017 Mesonet Temperature Comparison

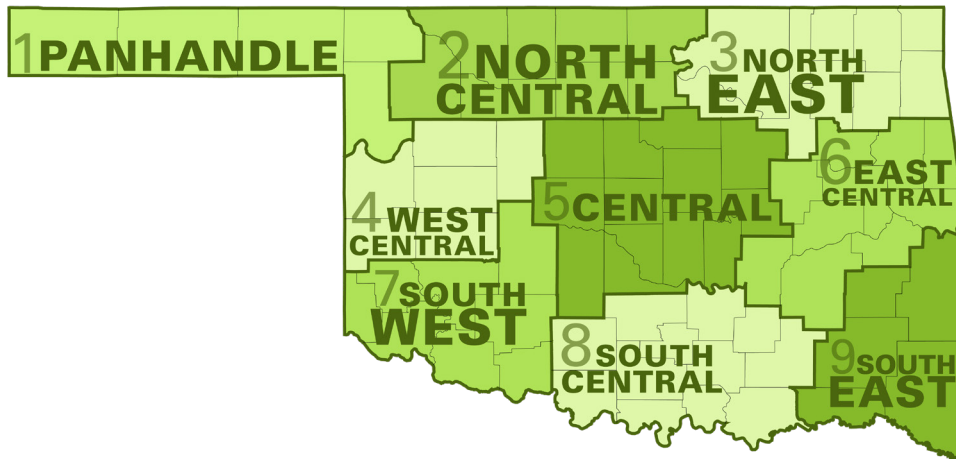
Climate Division	Average Temp (F)	Departure from Normal (F)	Rank since 1895	Hottest on Record (Year)	Coldest on Record (Year)	Apr-16 (F)
Panhandle	55.3	0.0	62nd Coolest	62.1 (1946)	48.8 (1997)	56.6
North Central	58.5	0.8	47th Warmest	64.4 (1981)	50.4 (1983)	60.3
Northeast	60.2	1.2	45th Warmest	65.7 (1954)	52.5 (1983)	61.0
West Central	58.9	0.5	53rd Warmest	65.1 (2006)	52.2 (1983)	60.5
Central	61.0	1.1	46th Warmest	66.9 (2006)	53.6 (1983)	62.0
East Central	61.9	1.5	43rd Warmest	67.8 (1896)	54.5 (1907)	62.5
Southwest	61.2	0.6	52nd Warmest	67.6 (2006)	54.9 (1997)	61.9
South Central	63.0	1.3	42nd Warmest	68.8 (1925)	56.6 (1983)	63.4
Southeast	63.7	3.1	19th Warmest	66.7 (2006)	55.3 (1983)	62.7
Statewide	60.4	1.1	44th Warmest	65.8 (2006)	53.2 (1983)	61.2



## MESONET EXTREMES FOR APRIL 2017

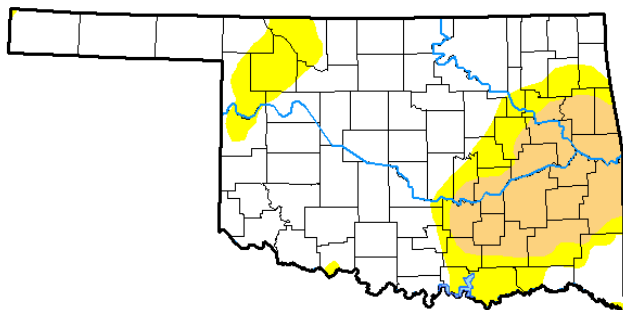
Climate Division	High Temp (F)	Day	Station	Low Temp (F)	Day	Station	High Monthly Rainfall (inches)	Station	High Daily Rainfall (inches)	Day	Station
Panhandle	94	19th	Beaver	28	2nd	Kenton	5.93	Beaver	1.82	29th	Buffalo
North Central	92	8th	Woodward	32	6th	Seiling	7.26	Newkirk	2.13	29th	Alva
Northeast	85	8th	Wynona	31	7th	Vinita	13.87	Pawnee	4.94	29th	Pawnee
West Central	91	9th	Butler	32	6th	Camargo	8.77	Weatherford	3.62	29th	Weatherford
Central	88	25th	El Reno	33	6th	Bristow	14.29	Oilton	4.95	21st	Chandler
East Central	85	4th	Sallisaw	33	7th	Tahlequah	15.56	Tahlequah	7.62	29th	Webbers Falls
Southwest	93	8th	Hollis	32	6th	Mangum	7.16	Hinton	3.43	29th	Hinton
South Central	90	25th	Waurika	34	6th	Centrahoma	6.80	Pauls Valley	3.02	13th	Pauls Valley
Southeast	85	4th	Broken Bow	33	7th	Wister	10.25	Idabel	3.41	17th	Idabel
Statewide	94	19th	Beaver	28	2nd	Kenton	15.56	Tahlequah	7.62	29th	Webbers Falls

Oklahoma Climate Divisions



# U.S. Drought Monitor Oklahoma

**April 25, 2017**  
(Released Thursday, Apr. 27, 2017)  
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	66.53	33.47	16.81	0.00	0.00	0.00
<b>Last Week</b> 04-18-2017	41.55	58.45	32.32	10.07	0.00	0.00
<b>3 Months Ago</b> 01-24-2017	4.49	95.51	79.90	30.95	3.90	0.00
<b>Start of Calendar Year</b> 01-03-2017	5.61	94.39	83.21	55.75	5.55	0.00
<b>Start of Water Year</b> 09-27-2016	57.82	42.18	19.04	3.05	0.00	0.00
<b>One Year Ago</b> 04-26-2016	56.23	43.77	10.30	1.65	0.00	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:

Eric Luebehusen  
U.S. Department of Agriculture



<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](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/>



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