## Oklahoma Monthly Climate Summary

August is often Oklahoma's most brutal summer month. The spring rains become a distant memory, heat gains momentum through July, and the state's landscape turns a sickly shade of yellow. With drought intensifying along with the heat this summer, August looked bleak once again. However, Mother Nature was in a charitable mood. The upper-level heat dome - a common visitor to the Southern Plains in late summer - shifted to the west and brought Oklahoma under northwesterly flow aloft. That change meant more cool fronts and storm systems to interact with the rich moisture flowing north from the Gulf of Mexico. With that favorable pattern in place through much of the month, Oklahoma enjoyed one of its most mild and wet Augusts on record.

According to preliminary data from the Oklahoma Mesonet, the statewide average precipitation total was 6.42 inches, 3.47 inches above normal and the second wettest August

## August 2017 Statewide Extremes

| Description | Extreme | Station | Day |
| :--- | :---: | :---: | :---: |
| High Temperature | $103^{\circ} \mathrm{F}$ | Freedom, <br> Kingfisher | 5 |
| Low Temperature | $47^{\circ} \mathrm{F}$ | Eva | 31 |
| High Precipitation | 13.04 in. | OKC East | -- |
| Low Precipitation | 1.55 in. | Buffalo | -- |

since records began in 1895. August 1915 holds the top spot with 6.48 inches. The Oklahoma City East site led the Mesonet with 13.04 inches, but there were plenty of hefty totals during the month. Ten Mesonet sites recorded at least 10 inches, and 79 received between 5 and 10 inches. Buffalo had the lowest total with 1.55 inches. Climatological summer (June 1-Aug. 31) was the 29th wettest on record with a statewide average of 12.24 inches, 1.89 inches above normal. The January-August average of 30.59 inches was 5.73 inches above normal to rank as the eighth wettest such period on record.

Those that don't favor summer's usual fare can thank the string of cool fronts, abundant rainfall and its associated cloudiness for the delightfully mild August. According to preliminary data from the Mesonet, the statewide average temperature was 76.4 degrees, 4.4 degrees below normal to rank as the sixth coolest August on record. The Mesonet's

121 stations recorded a temperature of at least 100 degrees 22 times, and those occurred on only two days - Aug. 5 and Aug. 19. Freedom and Kingfisher led the state with 103 degrees on Aug. 5 while Eva had the lowest temperature at 47 degrees on the month's final morning. Climatological summer ended as the 29th coolest on record with a statewide average of 78.7 degrees, about a degree below normal. The mild August put a dent in 2017's march towards a top-10 warmest ranking, but the first eight months of the year remained 1.8 degrees above normal at 64 degrees, the 11th warmest January-August on record.

Flooding was the biggest weather hazard Oklahomans faced during August, given the frequent downpours. Flash flooding resulted in numerous water rescues across the Oklahoma City area on both Aug. 22 and Aug. 25, and in the Tulsa area on Aug. 15. The Tulsa area faced a more violent weather hazard

August 2017 Statewide Statistics
Temperature

|  | Average | Depart. | Rank (1895-2017) |
| :--- | :---: | :---: | :--- |
| Month (Aug) | $76.5^{\circ} \mathrm{F}$ | $-4.3^{\circ} \mathrm{F}$ | 6th Coolest |
| Season-to-Date <br> (Jun-Aug) | $78.7^{\circ} \mathrm{F}$ | $-0.9^{\circ} \mathrm{F}$ | 29th Coolest |
| Year-to-Date <br> (Jan-Aug) | $64.0^{\circ} \mathrm{F}$ | $1.7^{\circ} \mathrm{F}$ | 11th Warmest |

Precipitation

|  | Total | Depart. | Rank (1895-2017) |
| :--- | :---: | :---: | :--- |
| Month (Aug | 6.42 in. | 3.47 in. | 2nd Wettest |
| Season-to-Date <br> (Jun-Aug) | 12.85 in. | 2.50 in. | 18th Wettest |
| Year-to-Date <br> (Jan-Aug) | 31.14 in. | 6.28 in. | 8th Wettest |

Depart. $=$ departure from 30-year normal
early on the sixth with the touchdown of four tornadoes. The strongest tornado, rated an EF-2 on the Enhanced Fujita scale, injured more than two dozen people and caused significant damage to businesses in the midtown Tulsa area. Three additional EF-1 tornadoes struck Broken Arrow, Chelsea, and Oologah. Drought impacts virtually disappeared thanks to the generous rainfall amounts. According to the U.S. Drought

Monitor, 19 percent of the state was considered in drought and another 30 percent abnormally dry at the beginning of the month. Drought had been totally eliminated and only two percent of Oklahoma was still abnormally dry by the end of August.

## AUGUST 2017 OBSERVED PRECIPITATION



## AUGUST 2017 DEPARTURE FROM NORMAL PRECIPITATION



## AUGUST 2017 PERCENT OF NORMAL PRECIPITATION



## AUGUST 2017 AVERAGE TEMPERATURE



## AUGUST 2017 DEPARTURE FROM NORMAL TEMPERATURE



## MESONET MONTHLY SUMMARY FOR AUGUST 2017

| NAME | $\begin{aligned} & \text { MEAN } \\ & \text { TEMP } \end{aligned}$ | $\begin{aligned} & \text { HIGH } \\ & \text { TEMP } \end{aligned}$ | DAY | $\begin{aligned} & \text { LOW } \\ & \text { TEMP } \end{aligned}$ | DAY | HDD | CDD | $\begin{aligned} & \text { TOT } \\ & \text { PPT } \end{aligned}$ | $\begin{aligned} & \text { HIGH } \\ & 24-H R \end{aligned}$ | DAY | NAME | $\begin{aligned} & \text { MEAN } \\ & \text { TEMP } \end{aligned}$ | $\begin{aligned} & \text { HIGH } \\ & \text { TEMP } \end{aligned}$ | DAY | $\begin{aligned} & \text { LOW } \\ & \text { TEMP } \end{aligned}$ | DAY | HDD | CDD |  | $\begin{aligned} & \text { HIGH } \\ & 24-H R \end{aligned}$ | DAY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PANHANDLE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Arnett | 75.0 | 99 | 5 | 55 | 29 | 0 | 309 | 3.87 | 2.14 | 12 | Goodwel 1 | 73.3 | 97 | 5 | 50 | 29 | 0 | 259 | 2.46 | . 90 | 18 |
| Beaver | 75.6 | 102 | 5 | 50 | 31 | 0 | 328 | 3.18 | 1.30 | 10 | Hooker | 74.3 | 94 | 5 | 52 | 31 | 0 | 288 | 3.71 | . 97 | 17 |
| Boise City | 70.6 | 91 | 5 | 49 | 31 | 0 | 175 | 5.43 | 2.64 | 18 | Kenton | 70.5 | 91 | 19 | 49 | 30 | 0 | 171 | 2.67 | 1.14 | 7 |
| Buffalo | 76.9 | 102 | 5 | 51 | 30 | 0 | 369 | 1.55 | . 34 | 10 | Slapout | 75.2 | 99 | 5 | 53 | 30 | 0 | 315 | 4.41 | 3.40 | 10 |
| Eva | 71.3 | 92 | 5 | 47 | 31 | 0 | 196 | 2.55 | . 86 | 7 |  |  |  |  |  |  |  |  |  |  |  |
| NORTH CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alva | 76.6 | 99 | 5 | 54 | 30 | 0 | 360 | 4.69 | 1.51 | 11 | May Ranch | 76.0 | 100 | 5 | 56 | 29 | 0 | 340 | 5.19 | 2.95 | 10 |
| Blackwell | 75.8 | 99 | 5 | 55 | 29 | 0 | 335 | 5.04 | 1.47 | 11 | Medford | 76.6 | 101 | 5 | 54 | 29 | 0 | 361 | 4.44 | 2.35 | 11 |
| Breckinridge | 76.8 | 98 | 5 | 57 | 29 | 0 | 365 | 5.34 | 1.37 | 22 | Newkirk | 75.5 | 97 | 5 | 58 | 29 | , | 325 | 8.24 | 4.57 | 5 |
| Cherokee | 77.4 | 101 | 5 | 54 | 29 | 0 | 384 | 3.73 | 2.33 | 11 | Red Rock | 76.5 | 99 | 5 | 56 | 29 | - | 358 | 4.36 | 1.31 | 5 |
| Fairview | 77.2 | 101 | 5 | 54 | 30 | 0 | 377 | 6.40 | 1.58 | 16 | Seiling | 75.9 | 99 | 5 | 52 | 30 | - | 337 | 4.55 | 1.13 | 12 |
| Freedom | 76.0 | 103 | 5 | 54 | 29 | 0 | 340 | 4.05 | 1.12 | 11 | Woodward | 75.3 | 98 | 5 | 53 | 30 | - | 319 | 4.60 | 1.19 | 12 |
| Lahoma | 77.0 | 100 | 5 | 56 | 29 | 0 | 373 | 5.85 | 1.77 | 11 |  |  |  |  |  |  |  |  |  |  |  |
| NORTHEAST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bixby | 77.6 | 95 | 19 | 61 | 30 | ** | **** | 10.94 | 5.11 | 6 | Pawnee | 76.4 | 95 | 19 | 57 | 30 | 0 | 354 | 6.53 | 1.42 | 5 |
| Burbank | 75.6 | 96 | 5 | 56 | 30 | **** | **** | 4.13 | 1.41 | 5 | Porter | 77.3 | 95 | 19 | 60 | 30 | **** | **** | 7.43 | 2.73 | 6 |
| Copan | 75.3 | 95 | 19 | 56 | 29 | 0 | 318 | 6.85 | 1.74 | 5 | Pryor | 76.1 | 94 | 19 | 59 | 24 | **** | **** | 4.10 | 1.26 | 6 |
| Foraker | 75.0 | 96 | 5 | 56 | 24 | 0 | 311 | 7.04 | 3.89 | 5 | Skiatook | 76.3 | 95 | 19 | 61 | 24 | **** | **** | 6.14 | 1.94 | 6 |
| Inola | 76.4 | 94 | 20 | 61 | 30 | ** | **** | 6.31 | 1.68 | 6 | Talala | 41.4 | 94 | 19 | *** | 30 | 0 | 331 | 5.72 | 2.00 | 6 |
| Jay | 74.0 | 93 | 19 | 57 | 24 | 0 | 280 | 7.76 | 3.61 | 6 | Tulsa | 77.7 | 97 | 5 | 61 | 30 | 0 | 395 | 4.79 | 2.15 | 6 |
| Miami | 74.5 | 93 | 19 | 59 | 30 | 0 | 294 | 6.87 | 1.68 | 16 | Vinita | 74.8 | 94 | 20 | 56 | 24 | 0 | 302 | 3.43 | 1.43 | 6 |
| Nowata | 74.9 | 94 | 19 | 55 | 29 |  | *** | 7.00 | 2.35 | 6 | Wynona | 76.4 | 97 | 5 | 58 | 30 | **** | **** | 5.30 | 2.45 | 5 |
| WEST CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bessie | 77.1 | 100 | 5 | 57 | 29 | 0 | 376 | 9.31 | 2.77 | 12 | Erick | 76.1 | 99 | 5 | 54 | 30 | 0 | 345 | 7.43 | 2.66 | 11 |
| Butler | 76.5 | 100 | 5 | 53 | 30 | 0 | 358 | 5.48 | 1.23 | 12 | Putnam | 76.1 | 101 | 5 | 56 | 30 | 0 | 344 | 4.81 | 1.30 | 12 |
| Camargo | 75.5 | 100 | 5 | 55 | 30 | 0 | 325 | 5.54 | 1.85 | 12 | Watonga | 76.4 | 100 | 5 | 57 | 30 | 0 | 354 | 6.43 | 1.66 | 12 |
| Cheyenne | 75.4 | 98 | 5 | 57 | 30 | 0 | 323 | 5.99 | 1.66 | 10 | Weatherford | 76.8 | 99 | 5 | 59 | 29 | 0 | 366 | 7.41 | 2.21 | 12 |
| Elk City | 76.9 | 100 | 5 | 59 | 29 | 0 | 370 | 7.17 | 2.19 | 11 |  |  |  |  |  |  |  |  |  |  |  |
| CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Acme | 77.1 | 99 | 5 | 56 | 30 | 0 | 376 | 7.36 | 1.85 | 11 | Ninnekah | 77.9 | 99 | 5 | 61 | 30 | 0 | 399 | 6.76 | 2.09 | 10 |
| Bowlegs | 77.3 | 96 | 5 | 58 | 30 | 0 | 381 | 5.48 | . 99 | 16 | Norman | 77.8 | 97 | 5 | 60 | 30 | 0 | 396 | 8.43 | 2.06 | 22 |
| Bristow | 76.3 | 97 | 5 | 56 | 30 | 0 | 350 | 7.93 | 2.31 | 15 | 0ilton | 76.3 | 96 | 5 | 53 | 30 | 0 | 349 | 6.52 | 2.18 | 15 |
| Lake Carl Blac | 76.4 | 98 | 5 | 55 | 30 | 0 | 355 | 4.57 | 1.30 | 11 | OKC East | 77.3 | 97 | 5 | 61 | 30 | 0 | 381 | 13.04 | 4.02 | 25 |
| Chandler | 77.2 | 96 | 19 | 59 | 30 | 0 | 377 | 9.89 | 2.64 | 22 | OKC North | 77.7 | 98 | 5 | 61 | 30 | **** | **** | 9.04 | 1.65 | 25 |
| Chickasha | 78.0 | 99 | 5 | 60 | 30 | 0 | 402 | 8.35 | 4.20 | 10 | Okemah | 77.3 | 96 | 5 | 60 | 30 | 0 | 381 | 4.74 | 1.17 | 6 |
| E1 Reno | 75.6 | 97 | 5 | 55 | 30 | 0 | 327 | 9.93 | 2.09 | 10 | Perkins | 77.3 | 99 | 5 | 59 | 30 | 0 | 380 | 5.21 | 2.05 | 15 |
| Guthrie | 77.6 | 98 | 5 | 59 | 30 | 0 | 389 | 3.95 | 1.16 | 1 | Shawnee | 77.3 | 97 | 5 | 57 | 30 | 0 | 380 | 6.26 | 1.39 | 6 |
| Kingfisher | 77.7 | 103 | 5 | 58 | 29 | 0 | 394 | 5.56 | 1.12 | 16 | Spencer | 76.9 | 97 | 5 | 58 | 30 | 0 | 370 | 7.05 | 1.41 | 15 |
| Marena | 76.7 | 97 | 5 | 57 | 30 | 0 | 362 | 3.60 | . 78 | 16 | Stillwater | 77.3 | 97 | 5 | 58 | 30 | 0 | 383 | 5.81 | 1.62 | 16 |
| Minco | 77.0 | 99 | 5 | 59 | 30 | 0 | 371 | 10.57 | 2.71 | 11 | Washington | 77.3 | 96 | 5 | 60 | 30 | 0 | 381 | 7.70 | 2.10 | 6 |
| Marshal 1 | 77.3 | 99 | 5 | 57 | 30 | 0 | 382 | 4.06 | 1.41 | 9 |  |  |  |  |  |  |  |  |  |  |  |
| EAST CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cookson | 75.5 | 93 | 19 | 57 | 30 | 0 | 327 | 10.65 | 2.92 | 6 | Sallisaw | 77.7 | 95 | 20 | 62 | 30 | 0 | 393 | 11.24 | 5.89 | 13 |
| Eufaula | 77.8 | 95 | 19 | 61 | 30 | 0 | 397 | 12.01 | 5.73 | 13 | Stigler | 77.0 | 95 | 19 | 61 | 30 | 0 | 373 | 11.25 | 3.57 | 13 |
| Haskell | 77.1 | 95 | 19 | 62 | 29 | 0 | 374 | 7.64 | 3.18 | 6 | Stuart | 78.1 | 95 | 19 | 62 | 29 | **** | **** | 7.60 | 2.19 | 6 |
| Hectorville | 77.3 | 97 | 5 | 61 | 30 | 0 | 381 | 7.92 | 2.61 | 15 | Tahlequah | 75.8 | 93 | 20 | 62 | 24 | 0 | 334 | 6.70 | 1.42 | 13 |
| Holdenville | 77.4 | 95 | 19 | 59 | 30 | 0 | 385 | 7.28 | 1.52 | 14 | Webbers Falls | 77.5 | 94 | 20 | 61 | 30 | 0 | 386 | 9.91 | 3.89 | 13 |
| McAlester | 77.8 | 96 | 19 | 64 | 30 | 0 | 395 | 8.48 | 2.22 | 22 | Westville | 74.8 | 92 | 19 | 59 | 25 | 0 | 302 | 6.10 | 1.34 | 6 |
| 0 kmulgee | 76.7 | 95 | 19 | 60 | 30 | **** | **** | 7.04 | 2.23 | 6 |  |  |  |  |  |  |  |  |  |  |  |
| SOUTHWEST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Altus | 78.2 | 97 | 10 | 58 | 30 | 0 | 408 | 4.68 | 1.26 | 13 | Holl is | 77.6 | 100 | 5 | 57 | 30 |  | 391 | 3.99 | 1.27 | 13 |
| Apache | 76.9 | 97 | 5 | 58 | 30 | 0 | 368 | 6.77 | 2.04 | 11 | Mangum | 77.2 | 98 | 5 | 55 | 30 | 0 | 377 | 7.10 | 4.63 | 25 |
| Fort Cobb | 77.2 | 97 | 5 | 57 | 30 | 0 | 377 | 7.06 | 1.98 | 11 | Medicine Park | 77.3 | 97 | 5 | 62 | 30 | 0 | 381 | 8.99 | 4.69 | 25 |
| Grandfield | 79.5 | 101 | 5 | 59 | 30 | 0 | 448 | 4.95 | 2.48 | 6 | Tipton | 78.8 | 101 | 5 | 57 | 30 | 0 | 426 | 4.52 | 1.40 | 6 |
| Hinton | 76.4 | 99 | 5 | 57 | 30 | 0 | 354 | 8.47 | 1.66 | 25 | Walters | 78.5 | 98 | 5 | 59 | 30 | , | 418 | 4.98 | 1.10 | 14 |
| Hobart | 77.6 | 100 | 5 | 59 | 30 | **** | ** | 8.19 | 4.13 | 25 |  |  |  |  |  |  |  |  |  |  |  |
| SOUTH CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ada | 77.7 | 96 | 5 | 58 | 29 | 0 | 395 | 5.69 | 1.80 | 6 | Lane | 79.0 | 96 | 19 | 63 | 29 | **** | **** | 6.43 | 2.33 | 6 |
| Ardmore | 79.2 | 97 | 5 | 62 | 29 | 0 | 440 | 6.58 | 1.90 | 6 | Madill | 79.6 | 99 | 5 | 63 | 29 | 0 | 454 | 8.50 | 2.84 | 6 |
| Burneyville | 79.8 | 98 | 5 | 61 | 30 | 0 | 458 | 7.93 | 1.85 | 12 | Newport | 79.0 | 98 | 5 | 62 | 29 | 0 | 435 | 6.89 | 2.40 | 6 |
| Byars | 77.5 | 96 | 5 | 58 | 30 | **** | **** | 4.51 | . 97 | 6 | Pauls Valley | 78.6 | 98 | 5 | 60 | 30 | 0 | 420 | 6.70 | 1.71 | 6 |
| Centrahoma | 78.7 | 96 | 19 | 62 | 31 | 0 | 424 | 6.26 | 3.71 | 6 | Ringling | 79.2 | 99 | 5 | 60 | 30 | 0 | 439 | 5.94 | 1.93 | 17 |
| Durant | 79.2 | 96 | 19 | 65 | 30 | 0 | 441 | 7.74 | 2.84 | 6 | Sulphur | 77.8 | 96 | 5 | 61 | 30 | 0 | 398 | 6.52 | 1.45 | 6 |
| Fittstown | 77.3 | 95 | 19 | 61 | 30 | 0 | 380 | 4.49 | 1.13 | 6 | Tishomingo | 78.9 | 96 | 5 | 63 | 29 | 0 | 429 | 7.19 | 3.01 | 6 |
| Ketchum Ranch | 78.3 | 99 | 5 | 59 | 30 | 0 | 411 | 6.80 | 1.43 | 11 | Waurika | 79.5 | 100 | 5 | 60 | 30 | 0 | 449 | 8.26 | 2.26 | 6 |
| SOUTHEAST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Antlers | 78.4 | 95 | 19 | 64 | 29 | 0 | 414 | 6.97 | 2.89 | 6 | Mt Herman | 77.5 | 94 | 19 | 64 | 30 | 0 | 387 | 10.10 | 3.33 | 6 |
| Broken Bow | 78.2 | 94 | 19 | 66 | 31 | 0 | 410 | 7.14 | 2.52 | 6 | Talihina | 78.0 | 97 | 19 | 62 | 30 | 0 | 402 | 5.52 | 2.07 | 6 |
| Clayton | 78.0 | 95 | 19 | 63 | 30 | 0 | 403 | 9.57 | 2.72 | 6 | Valliant | 78.9 | 95 | 19 | 65 | 31 | 0 | 432 | 6.76 | 3.03 | 6 |
| Cloudy | 77.6 | 94 | 19 | 65 | 3 | 0 | 391 | 5.58 | 2.17 | 6 | Wilburton | 77.8 | 95 | 19 | 62 | 30 | 0 | 396 | 10.09 | 3.30 | 6 |
| Hugo | 79.1 | 95 | 19 | 66 | 30 | 0 | 436 | 10.85 | 6.70 | 6 | Wister | 77.5 | 95 | 20 | 62 | 25 | 0 | 386 | 9.28 | 3.68 | 6 |
| Idabe 1 | 79.1 | 95 | 20 | 67 | 29 | 0 | 437 | 8.41 | 2.82 | 6 |  |  |  |  |  |  |  |  |  |  |  |

2017 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL


August 2017 Mesonet Precipitation Comparison

| Climate Division | Precipitation <br> (inches) | Departure from <br> Normal (inches) | Rank since 1895 | Wettest on Record <br> (Year) | Driest on <br> Record (Year) | Aug-16 <br> (inches) |
| :--- | :---: | :---: | :--- | :--- | :--- | :--- |
| Panhandle | 3.31 | 0.61 | 30th Wettest | $5.81(1917)$ | $0.54(1936)$ | 3.59 |
| North Central | 5.11 | 1.89 | 20th Wettest | $8.10(1974)$ | $0.14(2000)$ | 3.41 |
| Northeast | 6.29 | 3.05 | 10th Wettest | $7.51(1964)$ | $0.03(2000)$ | 2.41 |
| West Central | 6.62 | 3.61 | 1st Wettest | $6.18(2005)$ | $0.02(2000)$ | 3.99 |
| Central | 7.04 | 3.94 | 2nd Wettest | $8.18(1906)$ | $0.02(2000)$ | 1.64 |
| East Central | 8.76 | 5.73 | 3rd Wettest | $10.88(1915)$ | $0.02(2000)$ | 2.74 |
| Southwest | 6.34 | 3.57 | 5th Wettest | $7.38(1996)$ | $0.00(2000)$ | 2.40 |
| South Central | 6.65 | 4.05 | 6th Wettest | $8.72(1906)$ | $0.01(2000)$ | 1.92 |
| Southeast | 8.21 | 5.39 | 2nd Wettest | $9.68(1915)$ | $0.25(1936)$ | 4.97 |
| Statewide | 6.42 | 3.47 | 2nd Wettest | $6.47(1915)$ | $0.12(2000)$ | 2.90 |



August 2017 Mesonet Temperature Comparison

| Climate Division | Average <br> Temp (F) | Departure from Normal (F) | Rank since 1895 | Hottest on Record (Year) | Coldest on Record (Year) | Aug-16 (F) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Panhandle | 73.6 | -4.3 | 7th Coolest | 83.7 (1937) | 71.4 (1915) | 76.6 |
| North Central | 76.4 | -4.4 | 9th Coolest | 88.2 (1936) | 72.9 (1915) | 80.2 |
| Northeast | 74.5 | -5.8 | 4th Coolest | 88.8 (1936) | 72.7 (1915) | 80.9 |
| West Central | 76.3 | -4.4 | 7th Coolest | 87.9 (2011) | 73.6 (1915) | 80.2 |
| Central | 77.0 | -4.4 | 7th Coolest | 88.7 (1936) | 74.1 (1915) | 81.8 |
| East Central | 76.6 | -4.3 | 5th Coolest | 88.6 (1936) | 73.5 (1915) | 81.5 |
| Southwest | 77.5 | -4.9 | 5th Coolest | 91.4 (2011) | 76.1 (1915) | 82.1 |
| South Central | 78.4 | -4.1 | 7th Coolest | 90.8 (2011) | 76.1 (1992) | 82.7 |
| Southeast | 78.2 | -2.2 | 26th Coolest | 87.5 (2011) | 74.2 (1915) | 80.8 |
| Statewide | 76.5 | -4.3 | 6th Coolest | 87.7 (2011) | 73.9 (1915) | 80.8 |

MESONET EXTREMES FOR AUGUST 2017

| Climate Division | High Temp (F) | Day | Station | Low (F) | Day | Station | High Monthly Rainfall (inches) | Station | High Daily Rainfall (inches) | Day | Station |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Panhandle | 102 | 5th | Buffalo | 47 | 31st | Eva | 5.43 | Boise City | 3.4 | 10th | Slapout |
| North Central | 103 | 5th | Freedom | 52 | 30th | Seiling | 8.24 | Newkirk | 4.57 | 5th | Newkirk |
| Northeast | 97 | 5th | Wynona | 55 | 29th | Nowata | 11.01 | Bixby | 5.11 | 6 th | Bixby |
| West Central | 101 | 5th | Putnam | 53 | 30th | Butler | 9.31 | Bessie | 2.77 | 12th | Bessie |
| Central | 103 | 5th | Kingfisher | 53 | 30th | Oilton | 13.04 | Oklahoma City East | 4.2 | 10th | Chickasha |
| East Central | 97 | 5th | Hectorville | 57 | 30th | Cookson | 12.01 | Eufaula | 5.89 | 13th | Sallisaw |
| Southwest | 101 | 5th | Grandfield | 55 | 30th | Mangum | 8.99 | Medicine Park | 4.69 | 25th | Medicine Park |
| South Central | 100 | 5th | Waurika | 58 | 30th | Byars | 8.5 | Madill | 3.71 | 6 th | Centrahoma |
| Southeast | 97 | 19th | Talihina | 62 | 30th | Wilburton | 10.85 | Hugo | 6.7 | 6th | Hugo |
| Statewide | 103 | 5th | Kingfisher | 47 | 31st | Eva | 13.04 | Oklahoma City East | 6.7 | 6 th | Hugo |

Oklahoma Climate Divisions


## U.S. Drought Monitor Oklahoma

## August 29, 2017

(Released Thursday, Aug. 31, 2017) Valid 8 a.m. EDT

| Drought Conditions (Percent Area) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
| Current | 97.84 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| Last Week <br> 08-22-2017 | 96.03 | 3.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 Months Ago <br> 05-30-2017 | 97.17 | 2.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of <br> Calendar Year <br> O1-03-2017 | 5.61 | 94.39 | 83.21 | 55.75 | 5.55 | 0.00 |
| Start of <br> Lhater Year <br> o9-27-2016 | 57.82 | 42.18 | 19.04 | 3.05 | 0.00 | 0.00 |
| One Year Ago <br> 08-30-2016 | 52.00 | 48.00 | 14.06 | 0.30 | 0.00 | 0.00 |

Intensity:


The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

## Author:

Chris Fenimore
NCEI/NESDIS/NOAA


## 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/

## C OKLAHOMA CLIMATOLOGICAL SURVEY

Oklahoma Climatological Survey is the State Climate Office for Oklahoma

Dr. Kevin Kloesel Director
Dr. Chris Fiebrich Associate Director

EDITOR
Gary D. McManus State Climatologist

DESIGN
Ada Hoang Creative Director

For more information, contact:
Oklahoma Climatological Survey
The University of Oklahoma
120 David L. Boren Blvd., Suite 2900
Norman, OK 73072-7305

TEL: 405-325-2541
FAX: 405-325-7282
E-MAIL: ocs@ou.edu
WEBSITE: http://climate.ok.gov

