Mother Nature threw Oklahoma a Hail Mary during the final week of July, offering drought-quenching rains and a glorious preview of fall. That brief seasonal transformation followed a dose of brutal summer weather that saw highs soar above 110 degrees and the heat index hit 120. The middle two weeks were especially fierce, culminating with record-breaking heat from the 19th through the 22nd. Temperatures reached 113 degrees at the Grandfield and Tipton Mesonet sites on both the 19th and 20th. There were 35 instances of temperatures reaching at least 110 degrees at Mesonet sites during the month, and highs reached 105 degrees 93 times. Combined with the humidity, the heat became even more oppressive. The heat index soared to 120 degrees at Pawnee on the 19th and again at Bristow the following day. The Mesonet's 120 sites recorded heat index values of at least 115 degrees 36 times during July. The cold front that visited the state during the month's final week was unusual in both its timing and

## July 2018 Statewide Extremes

| Description | Extreme | Station | Day |
| :--- | :---: | :---: | :---: |
| High Temperature | $113^{\circ} \mathrm{F}$ | Several <br> Several | 5 |
| Low Temperature | $50^{\circ} \mathrm{F}$ | Boise City, <br> Eva | 31 |
| High Precipitation | 6.09 in. | Pryor | -- |
| Low Precipitation | 0.84 in. | Ringling | -- |

strength, but provided a welcome respite from Oklahoma's normal July drudgery. Rainy weather, clouds and the cooler air helped provide Oklahomans with a brief glimpse of fall. Highs struggled to reach 90 degrees, and Boise City and Eva fell to a relatively chilly 50 degrees on July's final day. According to preliminary data from the Oklahoma Mesonet, the statewide average temperature for July was 81.2 degrees, 0.3 degrees below normal and ranked as the 58th coolest since records began in 1895. The year-to-date temperature through July was still very warm at 0.8 degrees above normal, the 29th warmest January-July on record.

The real benefit of the late-month cold front was the moisture it brought to a parched state. Through July 26, the statewide average rainfall total according to the Oklahoma Mesonet was 1.28 inches, on pace for the 21st driest July on record. That statewide average had more than doubled over the next five days to 2.93 inches, upping its ranking to
the 57th wettest on record. The heaviest rains fell across far northern Oklahoma and localized areas in the east. TwentyTwo Mesonet sites reported at least 4 inches of rain, with Pryor leading the state at 6.09 inches. Not all sections of the state were so fortunate, however. Significant deficits remained along the Red River as well as portions of north central Oklahoma. Ringling recorded 0.84 inches of rain for the lowest July total, while another 27 Mesonet sites recorded 2 inches or less. The first seven months of the year finished 2.53 inches below normal to rank as the 51st driest January-July on record. As with the monthly totals, the year-to-date totals were also highly variable. Southwestern Oklahoma was 6.23 inches below normal for their 18th direst such period, while east central Oklahoma enjoyed its 43rd wettest at 1.25 inches above normal. Deficits of nearly 10 inches existed over that period from southwestern through northeastern Oklahoma. Hollis received 7.5 inches of rain since Oct. 1, 2017, a deficit of 13.2 inches.

## July 2018 Statewide Statistics

Temperature

|  | Average | Depart. | Rank (1895-2018) |
| :--- | ---: | ---: | :---: |
| Month (Jul) | $82.1^{\circ} \mathrm{F}$ | $0.6^{\circ} \mathrm{F}$ | 52nd Warmest |
| Year-to-Date <br> (Jan-Jul) | $60.5^{\circ} \mathrm{F}$ | $1.0^{\circ} \mathrm{F}$ | 26th Warmest |

Precipitation

|  | Total | Depart. | Rank (1895-2018) |
| :--- | :---: | :--- | :--- |
| Month (Jun) | 2.94 in. | 0.06 in. | 57th Wettest |
| Year-to-Date <br> (Jan-Jul) | 19.44 in. | -2.47 in. | 51st Driest |

Depart. $=$ departure from 30-year normal

Despite the late relief during July, the U.S. Drought Monitor ended the month with 55 percent of the state in drought, and another 12 percent considered "abnormally dry," a drought precursor. Thirty-Two percent of the state was in at least "severe" drought, and 7 percent was labeled "extreme." Extreme drought dropped 5 percent since the end of June, but severe drought increased 9 percent. The Drought Monitor's intensity scale slides from moderate-severe-extremeexceptional, with exceptional being the worst classification.

The August temperature outlook from the Climate Prediction Center (CPC) indicated increased odds of above normal temperature for all but the extreme northeast corner of the state. Those odds were greater along the Red River. The precipitation outlook saw slightly increased odds for below normal precipitation across the southern half of the state, but no clear signal in the northern half. Drought is expected to persist or intensify along the Red River and in the far western Panhandle during August, according to CPC's Monthly Drought Outlook. Other areas that were in drought at the end of July can expect improvement by the end of August.

JULY 2018 OBSERVED PRECIPITATION


JULY 2018 DEPARTURE FROM NORMAL PRECIPITATION


## JULY 2018 PERCENT OF NORMAL PRECIPITATION



## JULY 2018 AVERAGE TEMPERATURE



JULY 2018 DEPARTURE FROM NORMAL TEMPERATURE


## MESONET MONTHLY SUMMARY FOR JULY 2018

| NAME | MEAN TEMP | $\begin{aligned} & \text { HIGH } \\ & \text { TEMP } \end{aligned}$ | DAY | $\begin{aligned} & \text { LOW } \\ & \text { TEMP } \end{aligned}$ | DAY | HDD | CDD |  | $\begin{aligned} & \text { HIGH } \\ & 24-H R \end{aligned}$ | DAY | NAME | $\begin{aligned} & \text { MEAN } \\ & \text { TEMP } \end{aligned}$ | HIGH TEMP | 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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PANHANDLE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Arnett | 80.2 | 108 | 20 | 58 | 31 | 0 | 472 | 2.64 | . 83 | 6 | Goodwe 11 | 78.0 | 102 | 20 | 52 | 31 | 0 | 404 | 4.66 | 1.79 | 15 |
| Beaver | 80.7 | 110 | 20 | 56 | 31 | 0 | 485 | 3.91 | 1.60 | 27 | Hooker | 79.7 | 108 | 20 | 56 | 31 | 0 | 454 | 2.85 | . 70 | 6 |
| Boise City | 77.4 | 106 | 20 | 50 | 31 | 0 | 385 | 2.03 | 1.04 | 24 | Kenton | 77.0 | 105 | 20 | 51 | 31 | 0 | 373 | 4.93 | 1.07 | 5 |
| Buffalo | 82.0 | 110 | 20 | 59 | 31 | 0 | 527 | 3.62 | 1.33 | 17 | Slapout | 80.3 | 108 | 20 | 57 | 31 | 0 | 476 | 2.94 | . 90 | 29 |
| Eva | 77.2 | 105 | 20 | 50 | 31 | 0 | 378 | 4.70 | 2.14 | 6 |  |  |  |  |  |  |  |  |  |  |  |
| NORTH CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alva | 82.1 | 110 | 20 | 59 | 31 | 0 | 530 | 3.25 | . 98 | 29 | May Ranch | 80.6 | 102 | 20 | 58 | 31 | 0 | 483 | 4.07 | 1.47 | 29 |
| Blackwell | 81.2 | 101 | 19 | 61 | 31 | 0 | 503 | 3.08 | 1.15 | 29 | Medford | 81.5 | 103 | 19 | 60 | 31 | 0 | 513 | 5.14 | 1.21 | 17 |
| Breckinridge | 82.6 | 111 | 20 | 61 | 31 | 0 | 545 | 1.59 | . 94 | 29 | Newkirk | 79.5 | 99 | 19 | 59 | 31 | 0 | 449 | 3.64 | 1.44 | 29 |
| Cherokee | 82.9 | 103 | 20 | 61 | 31 | 0 | 554 | 4.24 | 1.93 | 17 | Red Rock | 82.0 | 108 | 20 | 60 | 31 | 0 | 526 | 1.60 | . 92 | 29 |
| Fairview | 83.4 | 112 | 20 | 61 | 31 | 0 | 572 | 1.85 | 1.12 | 30 | Seiling | 81.8 | 109 | 20 | 60 | 31 | ** | **** | 2.70 | . 73 | 30 |
| Freedom | 80.8 | 108 | 20 | 58 | 31 | 0 | 488 | 4.41 | 1.42 | 15 | Woodward | 81.1 | 108 | 20 | 59 | 31 | 0 | 498 | 3.80 | 1.51 | 29 |
| Lahoma | 82.6 | 111 | 20 | 60 | 31 | 0 | 545 | 1.87 | . 56 | 30 |  |  |  |  |  |  |  |  |  |  |  |
| NORTHEAST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bixby | 82.2 | 104 | 20 | 63 | 31 | 0 | 535 | 2.39 | . 71 | 15 | Pawnee | 81.7 | 104 | 20 | 62 | 31 | 0 | 518 | 2.06 | . 92 | 29 |
| Burbank | 81.1 | 104 | 20 | 61 | 31 | 0 | 498 | 2.72 | 1.74 | 29 | Porter | 82.0 | 104 | 20 | 64 | 31 | 0 | 528 | 4.01 | 1.64 | 28 |
| Copan | 80.4 | 98 | 19 | 62 | 27 | 0 | 477 | 4.52 | 1.69 | 29 | Pryor | 81.0 | 102 | 19 | 62 | 8 | 0 | 497 | 6.09 | 1.75 | 29 |
| Foraker | 79.0 | 98 | 19 | 60 | 31 | 0 | 434 | 4.16 | 1.25 | 16 | Skiatook | 81.9 | 103 | 20 | 63 | 31 | 0 | 525 | 2.23 | 1.22 | 29 |
| Inola | 81.9 | 104 | 20 | 63 | 31 | 0 | 524 | 3.29 | . 92 | 29 | Talala | 81.6 | 105 | 19 | 63 | 31 | 0 | 514 | 3.92 | 1.70 | 29 |
| Jay | 80.5 | 101 | 19 | 61 | 30 | 0 | 480 | 3.85 | 1.17 | 30 | Tulsa | 83.0 | 105 | 20 | 65 | 31 | 0 | 559 | 2.74 | 1.01 | 1 |
| Miami | 79.7 | 98 | 11 | 59 | 27 | 0 | 455 | 4.68 | . 93 | 28 | Vinita | 80.5 | 100 | 12 | 59 | 27 | 0 | 481 | 3.80 | 1.03 | 28 |
| Nowata | 79.9 | 100 | 19 | 61 | 27 | 0 | 461 | 5.19 | 2.02 | 29 | Wynona | 81.3 | 103 | 19 | 63 | 31 | 0 | 507 | 2.09 | . 78 | 29 |
| WEST CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bessie | 83.6 | 109 | 20 | 61 | 31 | 0 | 575 | 2.32 | 1.00 | 12 | Erick | 82.8 | 111 | 20 | 62 | 31 | 0 | 553 | 1.57 | . 99 | 30 |
| Butler | 83.3 | 111 | 20 | 60 | 31 | 0 | 567 | 1.69 | . 70 | 30 | Putnam | 82.4 | 109 | 20 | 59 | 31 | 0 | 539 | 1.85 | . 56 | 6 |
| Camargo | 82.0 | 110 | 20 | 57 | 31 | 0 | 526 | 1.94 | . 72 | 30 | Watonga | 82.3 | 109 | 20 | 59 | 31 | 0 | 538 | 3.09 | 1.37 | 30 |
| Cheyenne | 82.3 | 109 | 20 | 59 | 31 | 0 | 535 | 2.48 | . 96 | 30 | Weatherford | 84.4 | 111 | 20 | 61 | 31 | 0 | 600 | 1.67 | 1.33 | 30 |
| Elk City | 83.8 | 111 | 20 | 61 | 31 | 0 | 583 | 1.23 | . 63 | 30 |  |  |  |  |  |  |  |  |  |  |  |
| CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Acme | 83.0 | 108 | 21 | 62 | 31 | 0 | 559 | 3.04 | 1.55 | 30 | Marshal 1 | 82.6 | 112 | 20 | 61 | 31 | 0 | 547 | 2.15 | . 81 | 29 |
| Bowlegs | 81.6 | 109 | 20 | 62 | 31 | 0 | 514 | 4.70 | 3.14 | 30 | Norman | 82.8 | 108 | 20 | 64 | 31 | 0 | 552 | 2.28 | 2.06 | 30 |
| Bristow | 80.1 | 104 | 20 | 61 | 31 | 0 | 468 | 4.73 | 1.87 | 29 | 0ilton | 80.2 | 105 | 20 | 60 | 31 | 0 | 470 | 3.98 | 1.28 | 29 |
| Lake Carl Blac | 81.1 | 105 | 20 | 62 | 31 | 0 | 499 | 2.81 | 1.02 | 29 | OKC East | 82.6 | 109 | 20 | 63 | 31 | 0 | 546 | 3.05 | 2.26 | 30 |
| Chandler | 80.9 | 103 | 20 | 62 | 31 | 0 | 493 | 3.36 | . 97 | 6 | Okemah | 82.1 | 109 | 20 | 63 | 31 | 0 | 529 | 2.80 | 1.16 | 29 |
| Chickasha | 83.2 | 110 | 19 | 62 | 25 | * | **** | 2.56 | 2.03 | 30 | Perkins | 82.5 | 110 | 20 | 62 | 31 | 0 | 544 | 2.54 | 1.10 | 29 |
| E1 Reno | 81.6 | 111 | 20 | 60 | 31 | **** | **** | 1.46 | 1.18 | 30 | Shawnee | 82.3 | 110 | 20 | 63 | 31 | 0 | 535 | 2.30 | 1.51 | 30 |
| Guthrie | 82.5 | 111 | 20 | 61 | 31 | 0 | 542 | 1.97 | . 77 | 30 | Spencer | 81.2 | 106 | 20 | 61 | 31 | 0 | 503 | 3.01 | 1.62 | 30 |
| Kingfisher | 83.8 | 112 | 20 | 62 | 31 | 0 | 584 | 4.05 | 2.75 | 30 | Stillwater | 82.3 | 108 | 20 | 62 | 31 | 0 | 536 | 3.12 | 1.04 | 29 |
| Marena | 81.1 | 107 | 20 | 61 | 31 | 0 | 498 | 4.62 | 2.38 | 1 | Washington | 82.4 | 108 | 20 | 62 | 31 | 0 | 539 | 1.98 | 1.94 | 30 |
| Minco | 83.2 | 109 | 20 | 62 | 31 | 0 | 564 | 2.27 | 1.85 | 30 | Yukon | 81.5 | 108 | 20 | 62 | 31 | 0 | 510 | 2.91 | 1.49 | 30 |
| EAST CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cookson | 81.0 | 106 | 20 | 60 | 31 | 0 | 496 | ***** | ***** | *** | Sallisaw | 82.0 | 106 | 20 | 62 | 31 | 0 | 527 | 2.65 | . 97 | 29 |
| Eufaula | 81.7 | 107 | 20 | 63 | 31 | 0 | 517 | 3.43 | 1.23 | 29 | Stigler | 81.4 | 105 | 20 | 62 | 31 | 0 | 507 | 3.13 | . 91 | 29 |
| Haskell | 81.6 | 106 | 20 | 62 | 31 | 0 | 513 | 2.27 | . 68 | 29 | Stuart | 81.9 | 106 | 20 | 62 | 31 | 0 | 525 | 4.30 | 1.80 | 30 |
| Hectorville | 82.4 | 107 | 20 | 64 | 31 | 0 | 540 | 2.49 | . 55 | 1 | Tahlequah | 80.3 | 100 | 20 | 58 | 31 | 0 | 474 | 3.21 | 1.24 | 16 |
| Holdenville | 81.5 | 106 | 20 | 62 | 31 | 0 | 511 | 5.49 | 2.83 | 30 | Webbers Falls | 81.4 | 98 | 21 | 64 | 31 | * | **** | 4.10 | 1.09 | 16 |
| McAlester | 81.9 | 108 | 20 | 61 | 31 | 0 | 524 | 3.83 | 1.56 | 30 | Westville | 80.9 | 103 | 20 | 61 | 31 | 0 | 492 | 3.76 | 1.24 | 29 |
| 0 kmulgee | 80.9 | 107 | 20 | 62 | 31 | 0 | 493 | 2.56 | . 89 | 29 |  |  |  |  |  |  |  |  |  |  |  |
| SOUTHWEST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Altus | 85.5 | 109 | 19 | 65 | 31 | 0 | 635 | 1.31 | . 58 | 6 | Holl is | 85.5 | 112 | 19 | 63 | 31 | 0 | 635 | . 89 | . 31 | 7 |
| Apache | 83.1 | 109 | 20 | 63 | 31 | 0 | 562 | 2.00 | 1.69 | 30 | Mangum | 84.8 | 112 | 20 | 63 | 31 | 0 | 614 | 1.81 | 1.34 | 30 |
| Fort Cobb | ***** | *** | *** | *** | *** | * | **** | 4.03 | 3.47 | 30 | Medicine Park | 85.1 | 111 | 19 | 64 | 31 | 0 | 622 | 2.82 | 1.88 | 30 |
| Grandfield | 86.9 | 113 | 20 | 64 | 31 | 0 | 678 | 1.62 | . 73 | 6 | Tipton | 86.5 | 113 | 19 | 66 | 31 | 0 | 667 | 2.08 | 1.12 | 28 |
| Hinton | 83.0 | 108 | 19 | 61 | 31 | 0 | 558 | 2.45 | 2.13 | 30 | Walters | 84.9 | 108 | 19 | 65 | 31 | 0 | 616 | 3.59 | 1.71 | 14 |
| Hobart | 85.1 | 111 | 20 | 62 | 31 | 0 | 624 | 2.42 | 1.63 | 10 |  |  |  |  |  |  |  |  |  |  |  |
| SOUTH CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ada | 82.8 | 109 | 20 | 62 | 31 | 0 | 551 | 2.36 | 1.83 | 30 | Lane | 83.6 | 109 | 21 | 64 | 31 | 0 | 577 | 3.28 | 1.06 | 7 |
| Ardmore | 85.3 | 111 | 19 | 64 | 31 | 0 | 629 | . 90 | . 43 | 30 | Madil1 | 85.1 | 111 | 21 | 62 | 31 | 0 | 623 | 1.65 | . 70 | 30 |
| Burneyville | 85.2 | 111 | 22 | 62 | 31 | 0 | 626 | 2.96 | 1.66 | 1 | Newport | 85.0 | 111 | 21 | 63 | 31 | 0 | 620 | 2.03 | . 91 | 6 |
| Byars | 83.0 | 108 | 20 | 63 | 31 | 0 | 558 | 1.99 | 1.66 | 30 | Pauls Valley | 84.0 | 108 | 20 | 64 | 31 | 0 | 589 | 2.23 | 1.52 | 30 |
| Centrahoma | 83.1 | 110 | 20 | 62 | 31 | 0 | 560 | 2.55 | 1.47 | 30 | Ringling | 86.3 | 111 | 19 | 64 | 31 | 0 | 660 | . 84 | . 57 | 30 |
| Durant | 84.6 | 110 | 21 | 65 | 31 | 0 | 608 | 2.08 | 1.08 | 30 | Sulphur | 83.4 | 109 | 20 | 62 | 31 | 0 | 569 | 2.05 | 1.44 | 30 |
| Fittstown | 82.7 | 110 | 20 | 62 | 31 | 0 | 549 | 1.74 | 1.36 | 30 | Tishomingo | 83.9 | 110 | 19 | 63 | 31 | 0 | 586 | 2.40 | 1.10 | 30 |
| Ketchum Ranch | 84.3 | 111 | 19 | 63 | 31 | 0 | 599 | 2.56 | 1.02 | 30 | Waurika | 85.8 | 112 | 19 | 63 | 31 | - | 644 | 1.23 | . 44 | 30 |
| SOUTHEAST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Antlers | 82.2 | 105 | 21 | 63 | 31 | 0 | 532 | 2.99 | 1.26 | 30 | Mt Herman | 82.5 | 106 | 20 | 64 | 31 | 0 | 544 | 3.46 | 1.21 | 30 |
| Broken Bow | 82.6 | 107 | 20 | 66 | 25 | 0 | 546 | 2.80 | 1.18 | 30 | Talihina | 82.4 | 109 | 20 | 63 | 25 | 0 | 541 | 4.16 | 2.00 | 30 |
| Clayton | 83.0 | 109 | 20 | 64 | 31 | 0 | 557 | 3.28 | 2.18 | 30 | Valliant | 84.0 | 108 | 21 | 65 | 25 | 0 | 588 | 1.98 | . 78 | 6 |
| Cloudy | 83.1 | 106 | 20 | 65 | 31 | 0 | 560 | 3.50 | 1.53 | 30 | Wilburton | 82.1 | 106 | 20 | 63 | 31 | 0 | 530 | 3.69 | 1.77 | 30 |
| Hugo | 84.9 | 108 | 21 | 65 | 31 | 0 | 618 | 2.13 | . 82 | 29 | Wister | 81.1 | 106 | 20 | 63 | 31 | 0 | 498 | 5.13 | 1.02 | 12 |
| Idabe 1 | 84.1 | 108 | 21 | 67 | 25 | 0 | 591 | 1.14 | . 31 | 30 |  |  |  |  |  |  |  |  |  |  |  |

2018 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL


July 2018 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) | Jul-17 <br> (inches) |
| :--- | :---: | :---: | :--- | :--- | :--- | :--- |
| Panhandle | 3.59 | 1.02 | 24th Wettest | $8.81(1950)$ | $0.44(1983)$ | 2.69 |
| North Central | 3.17 | 0.36 | 49th Wettest | $8.59(1950)$ | $0.12(1983)$ | 2.08 |
| Northeast | 3.61 | 0.23 | 56th Wettest | $9.52(1959)$ | $0.28(1946)$ | 2.78 |
| West Central | 1.98 | -0.28 | 60th Driest | $7.63(1950)$ | $0.04(1983)$ | 1.74 |
| Central | 2.99 | 0.15 | 54th Wettest | $9.61(1950)$ | $0.16(1980)$ | 3.31 |
| East Central | 3.44 | 0.15 | 51st Wettest | $10.03(1950)$ | $0.36(1993)$ | 5.52 |
| Southwest | 2.27 | 0.00 | 61st Wettest | $6.60(1950)$ | $0.03(1980)$ | 2.90 |
| South Central | 2.05 | -0.70 | 48th Driest | $8.46(1950)$ | $0.11(1998)$ | 6.13 |
| Southeast | 3.11 | -0.51 | 53rd Driest | $12.47(1950)$ | $0.19(1993)$ | 7.91 |
| Statewide | 2.94 | 0.06 | 57th Wettest | $9.07(1950)$ | $0.42(1980)$ | 3.85 |

2018 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL


July 2018 Mesonet Temperature Comparison

| Climate Division | Average <br> Temp (F) | Departure from <br> Normal (F) | Rank since 1895 | Hottest on Record <br> (Year) | Coldest on <br> Record (Year) | Jul-17 (F) |
| :--- | :---: | :---: | :---: | :--- | :--- | :--- |
| Panhandle | 79.2 | -0.1 | 54th Coolest | $86.0(1934)$ | $72.8(1906)$ | 80.5 |
| North Central | 81.5 | -0.3 | 58th Coolest | $89.6(2011)$ | $75.9(1950)$ | 83.1 |
| Northeast | 81.1 | 0.3 | 62nd Coolest | $89.3(1954)$ | $75.4(1950)$ | 81.4 |
| West Central | 83.0 | 1.2 | 41st Warmest | $89.6(2011)$ | $75.8(1906)$ | 83.5 |
| Central | 81.8 | -0.1 | 59th Coolest | $90.2(2011)$ | $76.7(1950)$ | 83.3 |
| East Central | 80.8 | -0.4 | 50th Coolest | $88.9(2011)$ | $76.2(1906)$ | 81.9 |
| Southwest | 85.0 | 1.8 | 24th Warmest | $91.7(2011)$ | $78.0(1908)$ | 84.1 |
| South Central | 84.2 | 1.8 | 35th Warmest | $90.5(2011)$ | $77.9(1950)$ | 83.0 |
| Southeast | 82.9 | 2.5 | 23rd Warmest | $87.5(2011)$ | $76.0(1905)$ | 81.6 |
| Statewide | 82.1 | 0.6 | 52nd Warmest | $89.2(2011)$ | $76.3(1906)$ | 82.5 |

MESONET EXTREMES FOR JULY 2018

| Climate Division | High Temp (F) | Day | Station | Low <br> (F) | Day | Station |  | Station |  | Day | Station |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Panhandle | 110 | 20th | Beaver | 50 | 31st | Boise City | 4.93 | Kenton | 2.14 | 6th | Eva |
| North Central | 112 | 20th | Fairview | 58 | 31st | Freedom | 5.14 | Medford | 1.93 | 17th | Cherokee |
| Northeast | 105 | 19th | Talala | 59 | 27th | Miami | 6.09 | Pryor | 2.02 | 29th | Nowata |
| West Central | 111 | 20th | Elk City | 57 | 31st | Camargo | 3.09 | Watonga | 1.37 | 30th | Watonga |
| Central | 112 | 20th | Kingfisher | 60 | 31st | Oilton | 4.73 | Bristow | 3.14 | 30th | Bowlegs |
| East Central | 108 | 20th | McAlester | 58 | 31st | Tahlequah | 5.49 | Holdenville | 2.83 | 30th | Holdenville |
| Southwest | 113 | 20th | Grandfield | 61 | 31st | Hinton | 4.03 | Fort Cobb | 3.47 | 30th | Fort Cobb |
| South Central | 112 | 19th | Waurika | 62 | 31st | Sulphur | 3.28 | Lane | 1.83 | 30th | Ada |
| Southeast | 109 | 20th | Talihina | 63 | 31st | Antlers | 5.13 | Wister | 2.18 | 30th | Clayton |
| Statewide | 113 | 20th | Grandfield | 50 | 31st | Boise City | 6.09 | Pryor | 3.47 | 30th | Fort Cobb |

Oklahoma Climate Divisions


## U.S. Drought Monitor Oklahoma



July 31, 2018 (Released Thursday, Aug. 2, 2018) Valid 8 a.m. EDT

|  | Drought Conditions (Percent Area) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
| Current | 22.31 | 77.69 | 55.48 | 32.39 | 6.81 | 0.00 |
| Last Week <br> 07-24-2018 | 12.38 | 87.62 | 61.07 | 34.36 | 10.16 | 0.00 |
| 3 Months Ago <br> 05-01-2018 | 42.23 | 57.77 | 47.44 | 42.07 | 34.84 | 23.93 |
| Start of <br> Calendar Year <br> 01-02-2018 | 0.00 | 100.00 | 77.15 | 38.76 | 0.00 | 0.00 |
| Start of <br> water Year <br> o9-26-2017 | 64.46 | 35.54 | 0.77 | 0.00 | 0.00 | 0.00 |
| One Year Ago <br> 08-01-2017 | 51.19 | 48.81 | 18.51 | 3.65 | 0.00 | 0.00 |

Intensity:

| D0 Abnormally Dry | D3 Extreme Drought |
| :--- | :--- |
| D1 Moderate Drought |  |
| D2 Severe Drought |  |
| D4 Exceptional Drought |  |

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

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/

## 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

