Many of Oklahoma's most extreme rainfall events have occurred during the fall, the result of a rare conjunction of meteorological ingredients converging over the Southern Plains. Those ingredients - the remnants of a pacific tropical system, a stalled front, and abundant moisture from the Gulf of Mexico - came together late in the month to produce massive rainfall totals across south central Oklahoma. The Oklahoma Mesonet site at Fittstown recorded 14.2 inches of rain on Sept. 21, the second-highest daily total observed in the state since individual station records began in the 1880s, and the highest total in the 25-year history of the Mesonet. Enid remains in the top historical spot with 15.68 inches on Oct. 11, 1973, while the Mesonet's previous record of 12.42 inches at Burneyville on April 29, 2009, was easily bested. There were numerous unofficial and radar-estimated reports of 15-20 inches in the Pontotoc County area during the storm. The rain totals represent a greater than 1,000-

## September 2018 Statewide Extremes

| Description | Extreme | Station | Day |
| :--- | :---: | :--- | :---: |
| High Temperature | $100^{\circ} \mathrm{F}$ | Multiple | Multiple |
| Low Temperature | $36^{\circ} \mathrm{F}$ | Eva | 22 |
| High Precipitation | 18.75 in. | Fittstown | -- |
| Low Precipitation | 0.26 in. | Kenton | -- |

year 24-hour event according to the Oklahoma Conservation Commission and USDA-Natural Resources Conservation Service. Widespread flooding was reported across the southern half of the state, and the National Weather Service (NWS) issued a flash flood emergency for Pontotoc County and the surrounding area.

Heavy rains during the first week combined with that later storm to produce a statewide average total of 5.21 inches, a surplus of 1.68 inches, to rank as the 19th wettest September since climate division records began in 1895. Much of southern Oklahoma received between 8-10 inches of rain, although the far southwest struggled to reach 4 inches. South central Oklahoma's average of 11.04 inches was 7.11 inches above normal, the wettest September on record for that section of the state. The northern third of the state did not fare as well with 1-2 inches commonly reported. The northeast corner's average of 2.9 inches was
1.6 inches below normal, 48th driest on record. Fifteen of the Mesonet's 120 stations recorded at least 10 inches, led by Fittstown's 18.75 inches, and another 48 sites received at least 5 inches. The NWS cooperative observer at Pontotoc reported 20.89 inches for the month. Kenton had the lowest total at 0.26 inches. Statewide, August and September combined to produce the eighth wettest such period on record at 9.21 inches, 2.63 inches above normal. The average for the first nine months of the year rose to 29.15 inches, 0.76 inches above normal to rank as the 40th wettest JanuarySeptember on record.

The Mesonet's 120 sites recorded only five triple-digit temperatures during September, versus 10 readings in the 30 s. The state's highest temperature of 100 degrees was observed at five different locations, the last at Talihina on the 19th. Barring a rare triple-digit temperature during the

September 2018 Statewide Statistics
Temperature

|  | Average | Depart. | Rank (1895-2018) |
| :--- | :---: | :---: | :---: |
| Month <br> (September) | $73.4^{\circ} \mathrm{F}$ | $1.1^{\circ} \mathrm{F}$ | 59th Warmest |
| Year-to-Date <br> (Jan-Sept) | $64.2^{\circ} \mathrm{F}$ | $0.8^{\circ} \mathrm{F}$ | 31st Warmest |

Precipitation

|  | Total | Depart. | Rank (1895-2018) |
| :--- | :---: | :---: | :--- |
| Month <br> (September) | 5.21 in. | 1.68 in. | 19th Wettest |
| Year-to-Date <br> (Jan-Sept) | 29.15 in. | 0.76 in. | 40th Wettest |

Depart. $=$ departure from 30-year normal
final three months, that was undoubtedly 2018's last such occurrence. The Eva Mesonet site recorded the lowest September temperature of 36 degrees on the 22 nd. Despite the lack of extreme heat, the statewide average temperature still managed to finish 1.1 degrees above normal to rank as the 59th warmest September on record. The positive temperature anomaly was due mainly to September's minimum temperatures, which were nearly 4 degrees above normal.

Drought took a large step back for the second consecutive month. Drought coverage dropped from 55 percent of the state at the beginning of August to 9 percent at the end of September. Only two small core areas of drought remained - across far southwestern Oklahoma and a smaller area centered on eastern Osage and southern Washington counties. The October outlooks from the Climate Prediction Center (CPC) indicate increased odds of above normal temperatures across the entire state, but especially eastern Oklahoma, and above normal precipitation. Given those outlooks, CPC's October Drought Outlook sees improvement across the remaining drought areas in Oklahoma by the end of October.

## SEPTEMBER 2018 OBSERVED PRECIPITATION



Observed Mesonet Rainfall
Calendar Month to Date
Sep 1, 2018 through Sep 30, 2018
Created 12:00:53 PM October 1, 2018 UTC. Copynight 2018

## SEPTEMBER 2018 DEPARTURE FROM NORMAL PRECIPITATION



Departure from 1981-2010 Normal Rainfall Calendar Month to Date

Sep 1, 2018 through Sep 30, 2018
Created 12:00:52 PM October 1, 2018 UTC. Copyright 2018

## SEPTEMBER 2018 PERCENT OF NORMAL PRECIPITATION



## SEPTEMBER 2018 AVERAGE TEMPERATURE



## SEPTEMBER 2018 DEPARTURE FROM NORMAL TEMPERATURE



## MESONET MONTHLY SUMMARY FOR SEPTEMBER 2018

| NAME | MEAN TEMP | HIGH TEMP | DAY | $\begin{aligned} & \text { LOW } \\ & \text { TEMP } \end{aligned}$ | DAY | HDD | CDD | $\begin{aligned} & \text { TOT } \\ & \text { PPT } \end{aligned}$ | $\begin{aligned} & \text { HIGH } \\ & 24-\mathrm{HR} \end{aligned}$ | DAY | NAME | $\begin{aligned} & \text { MEAN } \\ & \text { TEMP } \end{aligned}$ | HIGH <br> TEMP | DAY | $\begin{aligned} & \text { LOW } \\ & \text { TEMP } \end{aligned}$ | DAY | HDD | CDD |  | $\begin{aligned} & \text { HIGH } \\ & 24-H R \end{aligned}$ | DAY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PANHANDLE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Arnett | 71.9 | 94 | 1 | 40 | 27 | 23 | 230 | 2.35 | 1.28 | 21 | Goodwe 11 | 70.5 | 94 | 24 | 39 | 22 | 35 | 199 | 1.76 | . 89 | 6 |
| Beaver | 71.4 | 95 | 1 | 43 | 22 | 33 | 226 | 2.45 | 1.12 | 21 | Hooker | 70.9 | 96 | 1 | 40 | 22 | 37 | 215 | 1.37 | . 50 | 2 |
| Boise City | 68.1 | 93 | 13 | 38 | 22 | 53 | 146 | 1.15 | . 94 | 3 | Kenton | 68.4 | 96 | 13 | 39 | 27 | 48 | 149 | . 26 | . 14 | 3 |
| Buffalo | 73.4 | 99 | 1 | 41 | 27 | 19 | 271 | 1.60 | . 77 | 20 | Slapout | 71.3 | 95 | 1 | 40 | 27 | 31 | 221 | 1.93 | . 47 | 2 |
| Eva | 68.7 | 94 | 17 | 36 | 22 | 55 | 165 | 1.54 | 1.00 | 4 |  |  |  |  |  |  |  |  |  |  |  |
| NORTH CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alva | 72.8 | 98 | 1 | 42 | 27 | 17 | 251 | 4.72 | 1.30 | 2 | May Ranch | 72.3 | 97 | 1 | 44 | 27 | 27 | 246 | 1.33 | . 59 | 3 |
| Blackwell | 73.0 | 98 | 1 | 38 | 27 | 19 | 258 | 2.66 | 1.46 | 4 | Medford | 37.6 | 97 | 1 | *** | 18 | 15 | 254 | 2.18 | . 86 | 7 |
| Breckinridge | 73.4 | 95 | 1 | 41 | 27 | 16 | 267 | 3.46 | 1.52 | 4 | Newkirk | 72.6 | 94 | 1 | 42 | 27 | 16 | 243 | 1.73 | . 93 | 5 |
| Cherokee | 74.0 | 100 | 1 | 43 | 27 | 9 | 280 | 1.23 | . 47 | 4 | Red Rock | 73.7 | 95 | 1 | 39 | 27 | 17 | 278 | 1.26 | .46 | 21 |
| Fairview | 73.5 | 99 | 1 | 42 | 27 | 14 | 270 | 2.54 | . 59 | 4 | Seiling | 72.9 | 97 | 1 | 40 | 27 | 20 | 259 | 1.41 | . 77 | 21 |
| Freedom | 72.5 | 97 | 1 | 41 | 27 | 21 | 247 | 1.81 | . 72 | 3 | Woodward | 72.5 | 94 | 1 | 43 | 27 | 18 | 243 | 1.38 | . 87 | 21 |
| Lahoma | 72.8 | 97 | 1 | 44 | 27 | **** | **** | 3.03 | 1.69 | 7 |  |  |  |  |  |  |  |  |  |  |  |
| NORTHEAST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bixby | 74.8 | 95 | 19 | 49 | 27 | 7 | 300 | 6.20 | 4.59 | 21 | Pawnee | 73.7 | 94 | 1 | 41 | 27 | 16 | 278 | 4.65 | 2.20 | 4 |
| Burbank | 72.8 | 93 | 1 | 37 | 27 | 21 | 254 | 3.49 | 1.97 | 4 | Porter | 75.1 | 97 | 19 | 49 | 27 | 8 | 311 | 5.76 | 4.60 | 21 |
| Copan | 73.2 | 95 | 19 | 38 | 27 | 20 | 267 | 1.07 | . 50 | 6 | Pryor | 73.7 | 96 | 19 | 43 | 27 | 14 | 277 | . 90 | . 77 | 21 |
| Foraker | 72.4 | 94 | 1 | 39 | 27 | 21 | 245 | 1.87 | . 97 | 4 | Skiatook | 73.9 | 95 | 19 | 44 | 27 | 15 | 283 | 2.49 | 1.02 | 21 |
| Inola | 74.9 | 98 | 19 | 46 | 27 | 13 | 309 | 3.01 | 2.88 | 21 | Talala | 74.1 | 97 | 19 | 42 | 27 | 14 | 286 | 1.29 | . 62 | 6 |
| Jay | 73.2 | 95 | 19 | 44 | 27 | 16 | 261 | 1.39 | . 51 | 21 | Tulsa | 75.1 | 96 | 19 | 48 | 27 | 11 | 315 | 3.21 | 2.48 | 21 |
| Miami | 72.7 | 93 | 19 | 42 | 27 | 20 | 251 | 3.02 | 1.83 | 7 | Vinita | 72.7 | 94 | 19 | 40 | 27 | 21 | 252 | 2.00 | 1.06 | 7 |
| Nowata | 72.7 | 94 | 19 | 39 | 27 | *** | **** | 4.00 | 1.77 | 5 | Wynona | 73.9 | 95 | 19 | 40 | 27 | 18 | 285 | 2.11 | . 87 | 5 |
| WEST CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bessie | 73.2 | 99 | 1 | 45 | 27 | 19 | 264 | 8.18 | 4.00 | 21 | Erick | 73.5 | 96 | 1 | 44 | 27 | 15 | 269 | 2.16 | . 80 | 26 |
| Butler | 73.6 | 99 | 1 | 40 | 27 | 16 | 274 | 2.79 | . 82 | 6 | Putnam | 37.4 | 96 | 1 | *** | 27 | 13 | 245 | 2.14 | . 76 | 21 |
| Camargo | 72.1 | 95 | 1 | 40 | 27 | 19 | 232 | 3.41 | 2.45 | 21 | Watonga | 72.7 | 96 | 1 | 47 | 27 | 20 | 251 | 9.50 | 3.39 | 7 |
| Cheyenne | 72.5 | 93 | 1 | 44 | 27 | 20 | 245 | 1.80 | . 95 | 21 | Weatherford | 72.5 | 96 | 1 | 47 | 27 | 20 | 244 | 9.67 | 3.20 | 6 |
| Elk City | 72.9 | 97 | 1 | 45 | 27 | 15 | 250 | 3.99 | 1.13 | 5 |  |  |  |  |  |  |  |  |  |  |  |
| CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Acme | 73.5 | 97 | 1 | 42 | 27 | 17 | 271 | 10.19 | 3.76 | 21 | Marshal 1 | 73.7 | 95 | , | 42 | 27 | 15 | 275 | 3.80 | 1.63 | 21 |
| Bowlegs | 73.7 | 94 | 1 | 47 | 27 | 15 | 277 | 5.83 | 3.32 | 21 | Norman | 73.6 | 94 | 1 | 47 | 27 | 12 | 270 | 7.73 | 2.63 | 21 |
| Bristow | 73.6 | 95 | 19 | 45 | 27 | 11 | 271 | 6.30 | 4.38 | 21 | 0ilton | 73.7 | 94 | 18 | 42 | 27 | *** | **** | 3.28 | 2.47 | 21 |
| Lake Carl Blac | 73.3 | 96 | 1 | 40 | 27 | 17 | 265 | 2.78 | 1.08 | 21 | OKC East | 73.9 | 94 | 1 | 46 | 27 | 13 | 279 | 8.68 | 2.45 | 4 |
| Chandler | 73.8 | 93 | 1 | 46 | 27 | 12 | 277 | 8.39 | 5.51 | 21 | Okemah | 74.5 | 96 | 19 | 50 | 27 | 8 | 292 | 4.05 | 2.61 | 21 |
| Chickasha | 74.1 | 97 | 1 | 47 | 27 | 11 | 284 | 6.77 | 2.74 | 21 | Perkins | 74.0 | 95 | 1 | 44 | 27 | 13 | 282 | 6.66 | 3.34 | 5 |
| E1 Reno | 72.5 | 95 | 1 | 43 | 27 | 20 | 245 | 6.88 | 3.01 | 21 | Shawnee | 74.0 | 95 | 1 | 47 | 27 | 13 | 282 | 5.52 | 2.62 | 21 |
| Guthrie | 74.0 | 97 | 1 | 44 | 27 | 13 | 281 | 3.76 | 1.62 | 21 | Spencer | 73.7 | 95 | 1 | 45 | 27 | 14 | 276 | 5.97 | 2.57 | 21 |
| Kingfisher | 74.2 | 98 | 1 | 44 | 27 | 13 | 290 | 3.91 | 1.72 | 21 | Stillwater | 74.0 | 95 | 1 | 42 | 27 | 15 | 285 | 3.14 | 1.47 | 4 |
| Marena | 73.1 | 94 | 1 | 43 | 27 | 14 | 257 | 2.47 | . 93 | 21 | Washington | 73.2 | 97 | 1 | 47 | 27 | 13 | 260 | 9.80 | 4.24 | 21 |
| Minco | 73.1 | 96 | 1 | 45 | 27 | 14 | 256 | 6.76 | 3.43 | 21 | Yukon | 73.0 | 93 | 1 | 44 | 27 | 15 | 256 | 5.65 | 3.29 | 21 |
| EAST CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cookson | 74.1 | 95 | 19 | 46 | 27 | 13 | 285 | 3.47 | 2.75 | 21 | Sallisaw | 75.1 | 96 | 19 | 51 | 27 | 5 | 309 | 3.99 | 3.29 | 21 |
| Eufaula | ***** | *** | *** | *** | *** | **** | **** | 6.65 | 5.70 | 21 | Stigler | 74.3 | 96 | 19 | 49 | 27 | 7 | 286 | 5.06 | 3.64 | 21 |
| Haskell | 74.9 | 97 | 19 | 49 | 27 | 8 | 306 | 4.50 | 2.48 | 21 | Stuart | 74.9 | 96 | 19 | 49 | 27 | 10 | 307 | 9.15 | 6.52 | 21 |
| Hectorville | 75.1 | 98 | 19 | 50 | 27 | 7 | 310 | 4.77 | 3.83 | 21 | Tahlequah | 73.9 | 95 | 19 | 45 | 27 | 13 | 279 | 3.08 | 1.90 | 21 |
| Holdenville | ***** | *** | *** | *** | *** | **** | **** | 7.18 | 4.63 | 21 | Webbers Falls | 75.1 | 96 | 18 | 49 | 27 | 6 | 310 | 3.36 | 3.10 | 21 |
| McAlester | 74.6 | 95 | 19 | 49 | 27 | 7 | 295 | 8.61 | 6.33 | 21 | Westville | 73.3 | 94 | 19 | 47 | 27 | 14 | 262 | 1.93 | 1.18 | 21 |
| 0 kmulgee | 74.1 | 98 | 19 | 47 | 27 | 11 | 284 | 2.64 | 2.25 | 21 |  |  |  |  |  |  |  |  |  |  |  |
| SOUTHWEST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Altus | 74.1 | 95 | 2 | 46 | 27 | 10 | 283 | 3.51 | 1.49 | 26 | Holl is | 74.1 | 98 | 2 | 47 | 27 | 9 | 281 | 3.60 | 1.17 | 21 |
| Apache | 73.6 | 97 | 1 | 45 | 27 | 14 | 272 | 7.40 | 3.11 | 21 | Mangum | 73.6 | 98 | , | 41 | 27 | 17 | 276 | 3.90 | 1.78 | 26 |
| Fort Cobb | 71.9 | 90 | 19 | 44 | 27 | **** | **** | 7.31 | 2.45 | 21 | Medicine Park | 73.6 | 98 | 1 | 48 | 27 | 12 | 271 | 9.78 | 3.37 | 21 |
| Grandfield | 75.5 | 100 | 1 | 50 | 27 | 8 | 324 | 5.74 | 2.90 | 21 | Tipton | 75.2 | 100 | 1 | 49 | 27 | 9 | 316 | 6.12 | 1.94 | 21 |
| Hinton | 72.7 | 96 | 1 | 44 | 27 | 21 | 253 | 3.94 | 1.59 | 21 | Walters | 74.7 | 97 | 1 | 48 | 27 | 10 | 300 | 6.32 | 3.05 | 21 |
| Hobart | 74.1 | 100 | 2 | 46 | 27 | 15 | 288 | 8.51 | 3.19 | 7 |  |  |  |  |  |  |  |  |  |  |  |
| SOUTH CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ada | 73.7 | 93 | 1 | 48 | 27 | 15 | 275 | 11.37 | 7.83 | 21 | Lane | 75.2 | 95 | 19 | 56 | 26 | 1 | 308 | 10.16 | 5.83 | 21 |
| Ardmore | 75.1 | 95 | 1 | 51 | 27 | 6 | 308 | 13.56 | 5.67 | 21 | Madill | 75.5 | 96 | 1 | 51 | 27 | 5 | 321 | 7.86 | 3.04 | 21 |
| Burneyville | 75.5 | 97 | 1 | 49 | 27 | 5 | 321 | 8.99 | 4.26 | 21 | Newport | 75.0 | 95 | 19 | 49 | 27 | 7 | 308 | 9.11 | 5.56 | 21 |
| Byars | 73.4 | 92 | 1 | 48 | 27 | 17 | 270 | 6.19 | 3.51 | 21 | Pauls Valley | 74.0 | 94 | 1 | 48 | 27 | 13 | 284 | 8.23 | 3.91 | 21 |
| Centrahoma | 74.8 | 95 | 19 | 49 | 27 | 8 | 302 | 13.83 | 9.69 | 21 | Ringling | 75.1 | 98 | 1 | 48 | 27 | 9 | 314 | 12.28 | 6.46 | 21 |
| Durant | 75.8 | 95 | 19 | 55 | 27 | 0 | 325 | 10.16 | 4.55 | 22 | Sulphur | 73.6 | 94 | 1 | 48 | 27 | 12 | 271 | 12.23 | 6.51 | 21 |
| Fittstown | 72.9 | 92 | 1 | 50 | 27 | 14 | 252 | 18.75 | 14.20 | 21 | Tishomingo | 74.5 | 94 | 1 | 51 | 27 | 7 | 292 | 12.91 | 7.09 | 21 |
| Ketchum Ranch | 74.2 | 96 | 1 | 48 | 27 | 12 | 289 | 10.55 | 4.93 | 21 | Waurika | 75.4 | 99 | 1 | 47 | 27 | 9 | 321 | 10.44 | 5.71 | 21 |
| SOUTHEAST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Antlers | 75.2 | 96 | 19 | 53 | 28 | 2 | 307 | 6.30 | 3.79 | 21 | Mt Herman | 75.1 | 95 | 19 | 57 | 27 | 2 | 305 | 5.70 | 2.34 | 21 |
| Broken Bow | 76.1 | 97 | 19 | 57 | 26 | 1 | 334 | 8.26 | 2.56 | 21 | Talihina | 75.6 | 100 | 19 | 53 | 27 | 2 | 321 | 10.75 | 8.27 | 21 |
| Clayton | 75.1 | 97 | 19 | 53 | 27 | 1 | 305 | 8.54 | 4.17 | 21 | Valliant | 77.1 | 99 | 18 | 56 | 28 | 0 | 365 | 7.40 | 2.69 | 22 |
| Cloudy | 75.4 | 95 | 18 | 56 | 28 | 2 | 313 | 5.31 | 2.27 | 21 | Wilburton | 75.1 | 98 | 19 | 50 | 27 | 5 | 308 | 5.06 | 3.78 | 21 |
| Hugo | 76.1 | 96 | 19 | 57 | 28 | 0 | 334 | 5.56 | 1.98 | 21 | Wister | 74.4 | 98 | 19 | 52 | 28 | 2 | 286 | 7.05 | 5.49 | 21 |
| Idabe 1 | 76.5 | 97 | 19 | 58 | 27 | 0 | 346 | 10.01 | 3.54 | 21 |  |  |  |  |  |  |  |  |  |  |  |

2018 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL


September 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) | Sep-17 <br> (inches) |
| :--- | :---: | :---: | :--- | :--- | :--- | :--- |
| Panhandle | 1.60 | -0.22 | 56th Driest | $5.03(1925)$ | $0.04(1956)$ | 2.94 |
| North Central | 2.21 | -0.63 | 50th Driest | $7.43(1923)$ | $0.07(2000)$ | 2.62 |
| Northeast | 2.90 | -1.60 | 48th Driest | $12.12(1986)$ | $0.29(1948)$ | 2.31 |
| West Central | 5.19 | 2.44 | 15th Wettest | $8.68(1923)$ | $0.06(1956)$ | 3.00 |
| Central | 5.93 | 2.07 | 18th Wettest | $9.81(1945)$ | $0.21(1956)$ | 3.43 |
| East Central | 4.95 | 0.28 | 39th Wettest | $10.16(1993)$ | $0.24(1948)$ | 1.35 |
| Southwest | 6.01 | 3.03 | 10th Wettest | $8.48(1936)$ | $0.04(1939)$ | 5.33 |
| South Central | 11.04 | 7.11 | 1st Wettest | $9.69(1936)$ | $0.13(1956)$ | 1.96 |
| Southeast | 7.27 | 3.00 | 15th Wettest | $11.97(1974)$ | $0.36(2017)$ | 0.36 |
| Statewide | 5.21 | 1.68 | 19th Wettest | $7.77(1945)$ | $0.25(1956)$ | 2.62 |

2018 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL


September 2018 Mesonet Temperature Comparison

| Climate Division | Average <br> Temp (F) | Departure from Normal (F) | Rank since 1895 | Hottest on Record (Year) | Coldest on Record (Year) | Sep-17 (F) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Panhandle | 70.5 | 1.1 | 50th Warmest | 76.9 (1931) | 62.3 (1974) | 70.1 |
| North Central | 72.7 | 0.8 | 58th Warmest | 80.6 (1931) | 63.6 (1974) | 73.0 |
| Northeast | 73.5 | 2.0 | 49th Warmest | 79.8 (1939) | 63.9 (1974) | 72.9 |
| West Central | 72.9 | 0.9 | 61st Warmest | 80.2 (1931) | 64.5 (1974) | 72.6 |
| Central | 73.5 | 0.7 | 55th Coolest | 81.7 (1931) | 64.9 (1974) | 73.8 |
| East Central | 74.5 | 1.9 | 51st Warmest | 81.8 (1939) | 65.1 (1974) | 74.2 |
| Southwest | 73.5 | -0.4 | 46th Coolest | 81.6 (1931) | 66.2 (1974) | 74.0 |
| South Central | 74.6 | 0.5 | 52nd Coolest | 81.8 (1939) | 66.6 (1974) | 74.4 |
| Southeast | 75.6 | 2.9 | 29th Warmest | 81.0 (1939) | 65.8 (1974) | 74.5 |
| Statewide | 73.4 | 1.1 | 59th Warmest | 80.1 (1931) | 64.7 (1974) | 73.3 |

MESONET EXTREMES FOR SEPTEMBER 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 | 99 | 1st | Buffalo | 36 | 22nd | Eva | 2.45 | Beaver | 1.28 | 21st | Arnett |
| North Central | 100 | 1st | Cherokee | 38 | 27th | Blackwell | 4.72 | Alva | 1.69 | 7th | Lahoma |
| Northeast | 98 | 19th | Inola | 37 | 27th | Burbank | 6.20 | Bixby | 4.60 | 21st | Porter |
| West Central | 99 | 1st | Bessie | 40 | 27th | Butler | 9.67 | Weatherford | 4.00 | 21st | Bessie |
| Central | 98 | 1st | Kingfisher | 40 | 27th | Lake Carl Blackwell | 10.19 | Acme | 5.51 | 21st | Chandler |
| East Central | 98 | 19th | Hectorville | 45 | 27th | Tahlequah | 9.15 | Stuart | 6.52 | 21st | Stuart |
| Southwest | 100 | 2nd | Hobart | 41 | 27th | Mangum | 9.78 | Medicine Park | 3.37 | 21st | Medicine Park |
| South Central | 99 | 1st | Waurika | 47 | 27th | Waurika | 18.75 | Fittstown | 14.20 | 21st | Fittstown |
| Southeast | 100 | 19th | Talihina | 50 | 27th | Wilburton | 10.75 | Talihina | 8.27 | 21st | Talihina |
| Statewide | 100 | 19th | Talihina | 36 | 22nd | Eva | 18.75 | Fittstown | 14.20 | 21st | Fittstown |

Oklahoma Climate Divisions


## U.S. Drought Monitor Oklahoma



September 25, 2018
(Released Thursday, Sep. 27, 2018) Valid 8 a.m. EDT

| Drought Conditions (Percent Area) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
| Current | 72.93 | 27.07 | 9.11 | 4.16 | 0.00 | 0.00 |
| Last Week <br> 09-18-2018 | 52.36 | 47.64 | 17.50 | 6.60 | 0.57 | 0.00 |
| 3 Months Ago <br> 06-26-2018 | 27.72 | 72.28 | 54.09 | 28.12 | 11.75 | 0.40 |
| Start of <br> Calendar Year <br> O1-02-2018 | 0.00 | 100.00 | 77.15 | 38.76 | 0.00 | 0.00 |
| Start of <br> whater Year <br> o9-26-2017 | 64.46 | 35.54 | 0.77 | 0.00 | 0.00 | 0.00 |
| One Year Ago <br> 09-26-2017 | 64.46 | 35.54 | 0.77 | 0.00 | 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:
Jessica Blunden
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/

## C OKLAHOMA CLIMATOLOGICAL SURVEY

Oklahoma Climatological Survey is the State Climate Office for Oklahoma

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