

The first month of spring greeted Oklahoma with warmer and more tranquil weather than the historic cold and snowy February that preceded it. While March offered up momentary glances of nearly every weather hazard in Oklahoma’s arsenal, the month was most often quiet. By coincidence—although state lore will say it’s the norm—the most active weather occurred during Oklahoma’s collectively shared spring break. On March 16-17, local National Weather Service offices issued a blizzard warning in the Panhandle, and severe thunderstorm and tornado watches in the main body of the state. That storm system started with severe weather across western Oklahoma the evening of the 16th, and transitioned to snow the morning of the 17th. Snowfall of 3-4 inches was being driven by 40 mph winds to create white-out conditions across far northwestern Oklahoma throughout the day on the 17th while the severe weather was pushed east. The additional 3-4 inches of snow across the

inches and 7.59 inches, respectively. Twenty-five of the 120 Oklahoma Mesonet sites recorded at least 4 inches of rain for the month. Thirty stations saw less than 2 inches, with Fort Cobb seeing the least at 0.64 inches. The first three months of the year ended as the 51st wettest since 1895 with a statewide average of 6.2 inches, 0.23 inches below normal. The January-March moisture distribution was similar to March’s pattern, with surpluses to the northwest and deficits to the southeast.

March was warm by any standard, but especially so following the historic cold weather of the previous month. The statewide average temperature for the month finished at 53.6 degrees, 3.2 degrees above normal, to rank as the 27th warmest March on record. High temperatures rose into the 70s and 80s quite often, with Beaver taking the top spot at 88 degrees on the 29th. Freezes were still common through

### March 2021 Statewide Extremes

| Description        | Extreme  | Station   | Day |
|--------------------|----------|-----------|-----|
| High Temperature   | 88°F     | Beaver    | 29  |
| Low Temperature    | 8°F      | Kenton    | 1   |
| High Precipitation | 8.06 in. | Foraker   | --  |
| Low Precipitation  | 0.64 in. | Fort Cobb | --  |

northwest brought seasonal totals to more than 40 inches in that region, with Arnett leading at 42.3 inches. Oklahoma City’s seasonal total of 22.5 inches through March was just 2.7 inches behind its record tally of 25.2 inches from 1947-1948, and ranked sixth highest on record. Tulsa’s seasonal total was 15.8 inches, its 17th highest on record and well behind 2010-2011’s 26.1 inches.

The statewide average precipitation total was 3.07 inches according to preliminary data from the Oklahoma Mesonet, 0.03 inches above normal, to rank as the 36th wettest March since records began in 1895. The northwestern half of the state saw surpluses of 1-3 inches, while the southeast fell 1-2 inches below normal. The moisture abundance was profound across parts of Oklahoma, with the Panhandle, north central and west central sections each experiencing one of their top 10 wettest Marches on record. The more robust totals came in Osage County, where Foraker and Burbank tallied 8.06

### March 2021 Statewide Statistics

#### Temperature

|                        | Average | Depart. | Rank (1895-2021) |
|------------------------|---------|---------|------------------|
| Month (March)          | 53.6°F  | 3.2°F   | 27th Warmest     |
| Year-to-Date (Jan-Mar) | 41.9°F  | -1.6°F  | 55th Coolest     |

#### Precipitation

|                        | Total    | Depart.   | Rank (1895-2021) |
|------------------------|----------|-----------|------------------|
| Month (March)          | 3.07 in. | 0.03 in.  | 36th Wettest     |
| Year-to-Date (Jan-Mar) | 6.20 in. | -0.23 in. | 51st Wettest     |

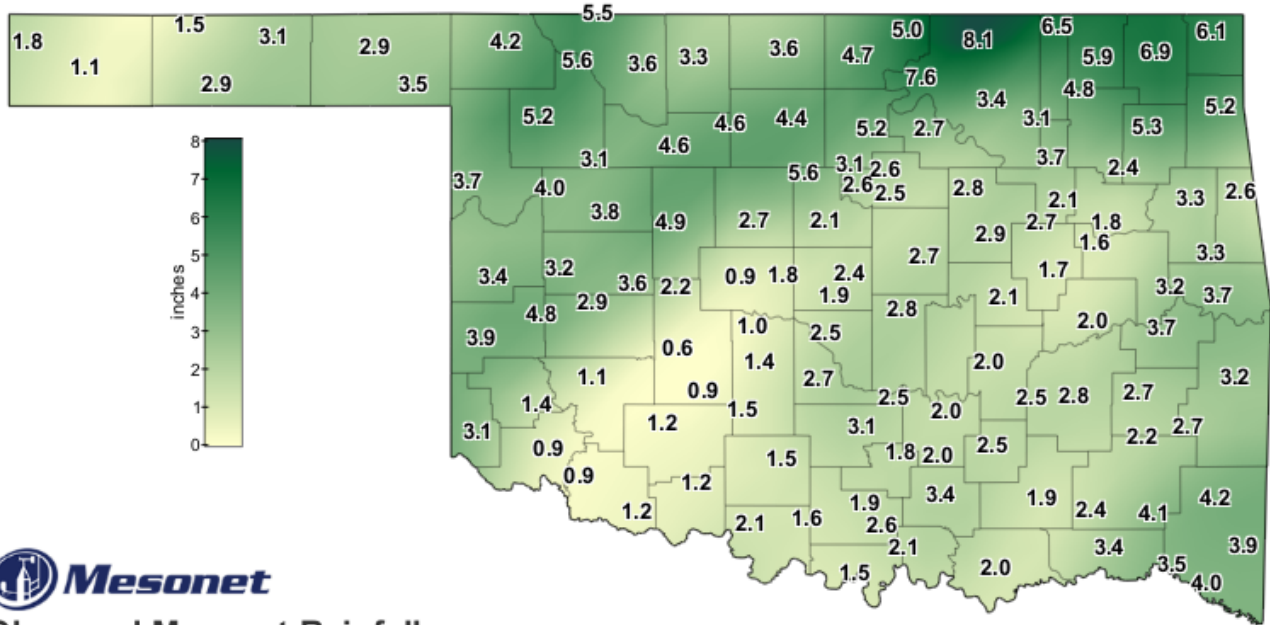
Depart. = departure from 30-year normal

the month, especially across far northwestern Oklahoma. Kenton recorded March’s lowest reading at 8 degrees on the month’s first day. The first three months of 2021 ended at 41.9 degrees, 1.6 degrees below normal and ranked as the 55th coolest January-March on record.

Drought continued to diminish in Oklahoma during March, dropping to an areal coverage of 10.71 percent on the month’s final U. S. Drought Monitor map. Drought was nearly eliminated across southwestern Oklahoma, although a

newer area of drought was attempting to intensify and spread across south central Oklahoma. The April temperature and precipitation outlooks from the Climate Prediction Center (CPC) indicated increased odds of above normal temperatures across the entire state, and below normal precipitation across the western half of Oklahoma. Given those outlooks, CPC's April drought outlook considered drought development likely in southwestern and west central Oklahoma, with no changes considered likely over the rest of the state.

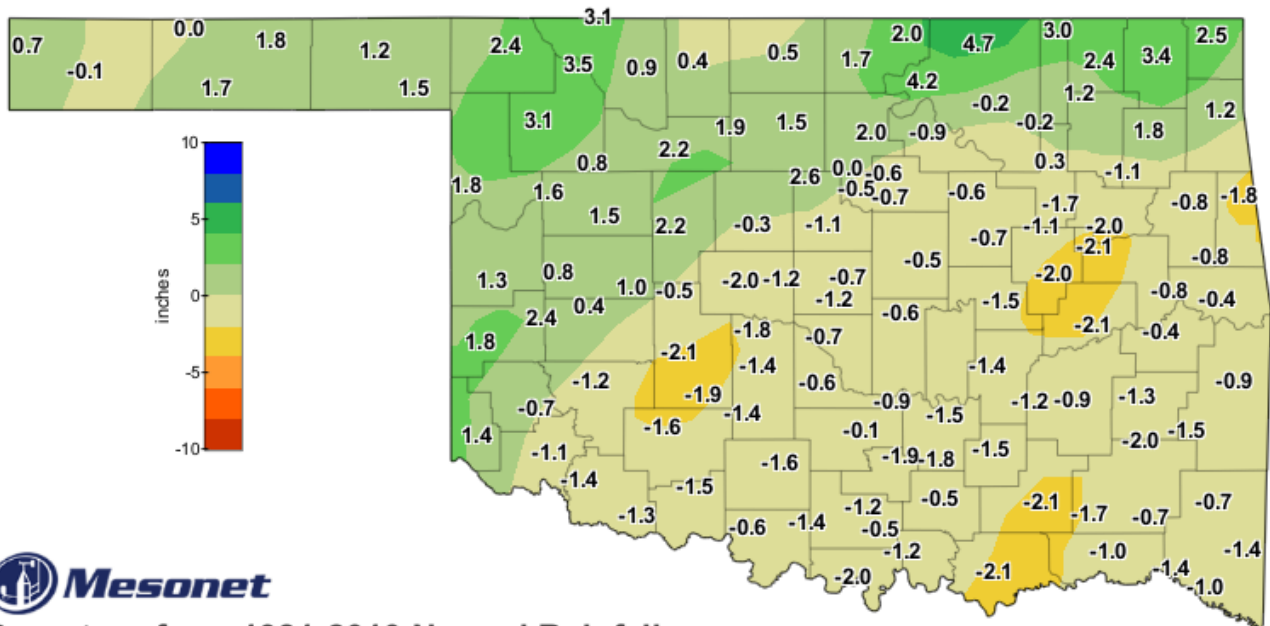
## MARCH 2021 OBSERVED PRECIPITATION



**Observed Mesonet Rainfall**  
Calendar Month to Date

Mar 1, 2021 through Mar 31, 2021  
Created 3:39:56 AM April 1, 2021 CDT. Copyright 2021

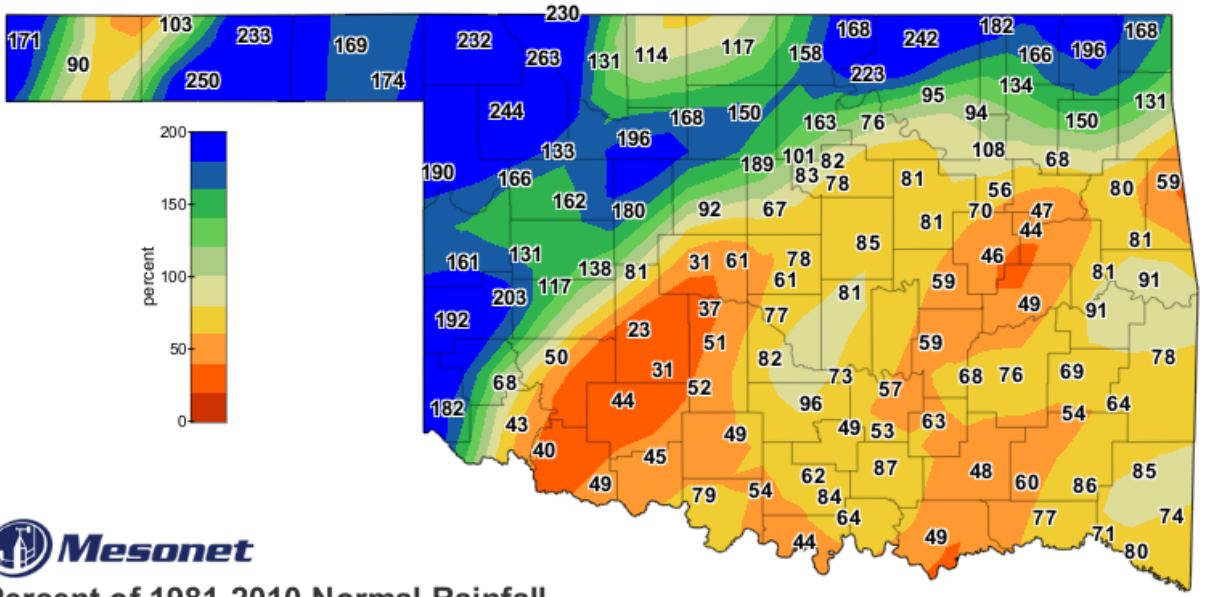
## MARCH 2021 DEPARTURE FROM NORMAL PRECIPITATION



**Departure from 1981-2010 Normal Rainfall**  
Calendar Month to Date

Mar 1, 2021 through Mar 31, 2021  
Created 3:39:57 AM April 1, 2021 CDT. Copyright 2021

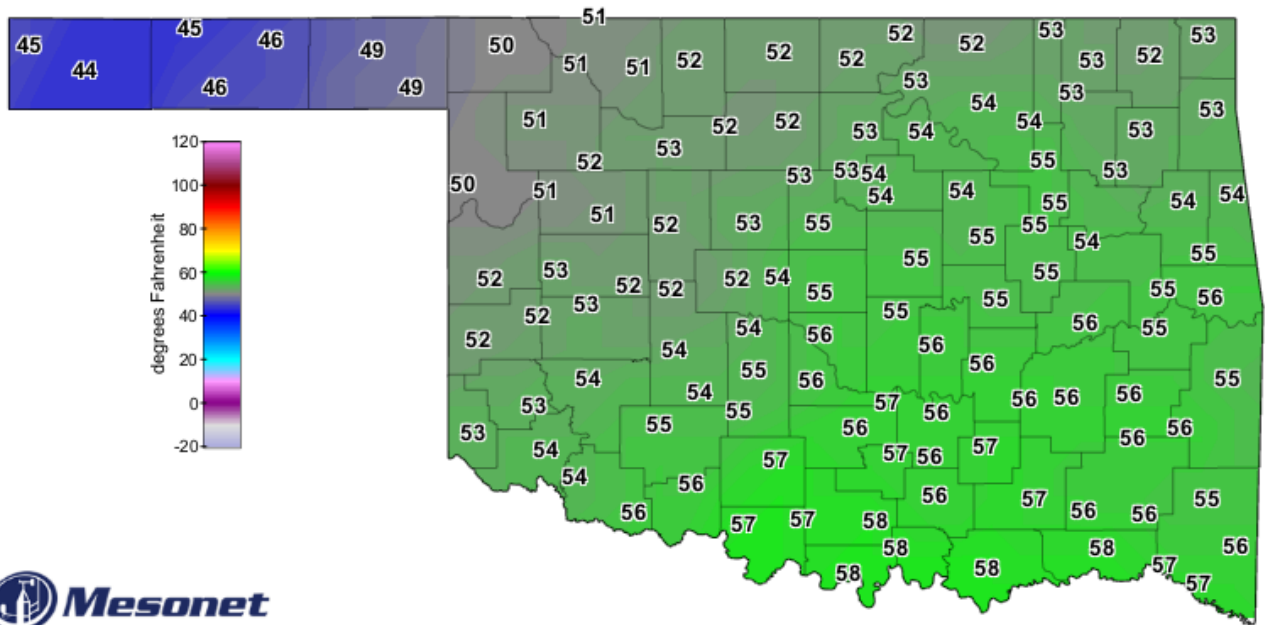
# MARCH 2021 PERCENT OF NORMAL PRECIPITATION



Percent of 1981-2010 Normal Rainfall  
Calendar Month to Date

Mar 1, 2021 through Mar 31, 2021  
Created 3:39:58 AM April 1, 2021 CDT. Copyright 2021

## MARCH 2021 AVERAGE TEMPERATURE

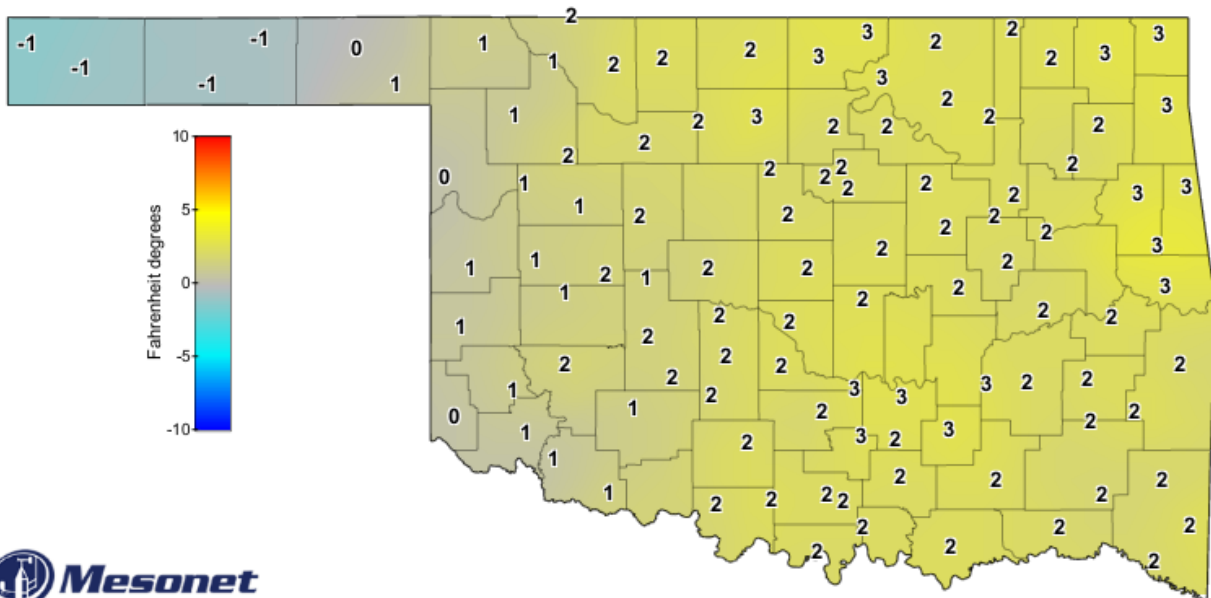


Average Air Temperature

March 2021

Created 7:41:05 AM April 1, 2021 CDT. © Copyright 2021

## MARCH 2021 DEPARTURE FROM NORMAL TEMPERATURE



Average Air Temperature

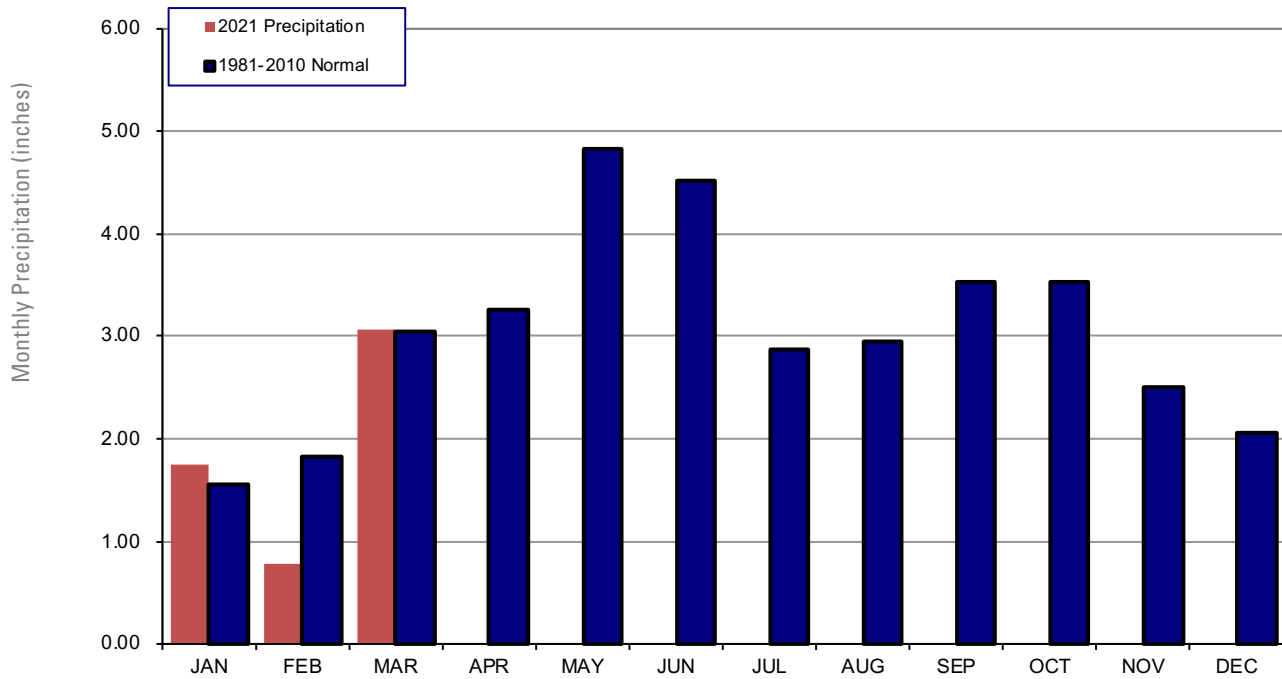
Departure from Average, March 2021

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# MESONET MONTHLY SUMMARY FOR MARCH 2021

| NAME                 | MEAN |      | HIGH |      | LOW |     | TOT |      | HIGH  |     | NAME          | MEAN |      | HIGH |      | LOW |     | TOT |      | HIGH  |     |
|----------------------|------|------|------|------|-----|-----|-----|------|-------|-----|---------------|------|------|------|------|-----|-----|-----|------|-------|-----|
|                      | TEMP | TEMP | DAY  | TEMP | DAY | HDD | CDD | PPT  | 24-HR | DAY |               | TEMP | TEMP | DAY  | TEMP | DAY | HDD | CDD | PPT  | 24-HR | DAY |
| <b>PANHANDLE</b>     |      |      |      |      |     |     |     |      |       |     |               |      |      |      |      |     |     |     |      |       |     |
| Arnett               | 50.8 | 85   | 29   | 21   | 2   | 443 | 2   | 3.74 | 1.09  | 22  | Goodwell      | 47.1 | 85   | 29   | 13   | 1   | 554 | 0   | 2.90 | 1.64  | 13  |
| Beaver               | 49.2 | 88   | 29   | 13   | 1   | 494 | 5   | 2.88 | 1.11  | 13  | Hooker        | 46.9 | 85   | 29   | 12   | 1   | 562 | 0   | 3.14 | 2.16  | 13  |
| Boise City           | 44.5 | 84   | 29   | 11   | 1   | 636 | 0   | 1.10 | .60   | 13  | Kenton        | 44.9 | 86   | 29   | 8    | 1   | 624 | 0   | 1.78 | 1.11  | 13  |
| Buffalo              | 50.8 | 86   | 29   | 18   | 1   | 445 | 5   | 4.23 | 1.41  | 22  | Slapout       | 50.1 | 87   | 29   | 21   | 1   | 466 | 3   | 3.45 | .98   | 13  |
| Eva                  | 45.3 | 86   | 29   | 9    | 1   | 611 | 0   | 1.45 | .63   | 13  |               |      |      |      |      |     |     |     |      |       |     |
| <b>NORTH CENTRAL</b> |      |      |      |      |     |     |     |      |       |     |               |      |      |      |      |     |     |     |      |       |     |
| Alva                 | 51.5 | 83   | 29   | 19   | 1   | 420 | 1   | 3.56 | 1.27  | 22  | May Ranch     | 51.2 | 85   | 29   | 21   | 1   | 432 | 4   | 5.45 | 2.00  | 22  |
| Blackwell            | 52.4 | 80   | 10   | 24   | 1   | 396 | 6   | 4.69 | 1.79  | 17  | Medford       | 52.0 | 80   | 10   | 22   | 1   | 409 | 5   | 3.60 | 1.31  | 22  |
| Breckinridge         | 52.8 | 80   | 10   | 23   | 1   | 383 | 5   | 4.40 | 1.52  | 22  | Newkirk       | 52.6 | 80   | 10   | 23   | 1   | 390 | 5   | 5.04 | 1.75  | 17  |
| Cherokee             | 52.0 | 82   | 10   | 23   | 1   | 403 | 1   | 3.28 | 1.13  | 22  | Red Rock      | 53.2 | 81   | 10   | 25   | 2   | 374 | 7   | 5.15 | 1.70  | 12  |
| Fairview             | 53.0 | 83   | 10   | 26   | 1   | 375 | 4   | 4.57 | 1.40  | 17  | Seiling       | 51.8 | 81   | 10   | 22   | 1   | 410 | 2   | 3.10 | 1.15  | 22  |
| Freedom              | 51.0 | 83   | 29   | 17   | 1   | 436 | 3   | 5.62 | 2.11  | 22  | Woodward      | 51.5 | 85   | 29   | 20   | 1   | 423 | 3   | 5.18 | 1.49  | 22  |
| Lahoma               | 52.2 | 80   | 10   | 24   | 1   | 402 | 5   | 4.56 | 1.94  | 12  |               |      |      |      |      |     |     |     |      |       |     |
| <b>NORTHEAST</b>     |      |      |      |      |     |     |     |      |       |     |               |      |      |      |      |     |     |     |      |       |     |
| Bixby                | 54.4 | 79   | 27   | 28   | 2   | 331 | 4   | 2.10 | .79   | 22  | Pawnee        | 53.9 | 80   | 16   | 26   | 2   | 350 | 6   | 2.72 | .82   | 17  |
| Burbank              | 53.1 | 81   | 10   | 24   | 1   | 375 | 7   | 7.59 | 2.18  | 12  | Porter        | 55.4 | 81   | 27   | 29   | 2   | 303 | 5   | 1.77 | .63   | 14  |
| Copan                | 52.6 | 77   | 10   | 26   | 1   | 388 | 4   | 6.53 | 2.32  | 13  | Pryor         | 52.9 | 77   | 27   | 24   | 2   | 379 | 3   | 5.31 | 1.64  | 13  |
| Foraker              | 52.3 | 78   | 10   | 25   | 1   | 397 | 4   | 8.06 | 2.58  | 12  | Skiatook      | 54.4 | 76   | 10   | 29   | 1   | 334 | 4   | 3.14 | .89   | 22  |
| Inola                | 53.3 | 78   | 27   | 26   | 2   | 366 | 3   | 2.41 | .63   | 17  | Talala        | 53.0 | 76   | 10   | 25   | 1   | 377 | 4   | 4.81 | 2.10  | 13  |
| Jay                  | 53.2 | 77   | 27   | 27   | 6   | 366 | 1   | 5.23 | 1.75  | 13  | Tulsa         | 55.1 | 77   | 27   | 30   | 2   | 310 | 4   | 3.68 | .96   | 22  |
| Miami                | 52.4 | 75   | 16   | 26   | 2   | 391 | 2   | 6.07 | 2.40  | 13  | Vinita        | 52.2 | 76   | 16   | 25   | 1   | 399 | 3   | 6.86 | 2.70  | 13  |
| Nowata               | 52.1 | 75   | 10   | 23   | 2   | 402 | 3   | 5.94 | 2.39  | 13  | Wynona        | 53.6 | 79   | 10   | 27   | 1   | 359 | 5   | 3.42 | .91   | 22  |
| <b>WEST CENTRAL</b>  |      |      |      |      |     |     |     |      |       |     |               |      |      |      |      |     |     |     |      |       |     |
| Bessie               | 53.6 | 84   | 10   | 26   | 1   | 357 | 5   | 2.88 | 1.32  | 13  | Erick         | 51.7 | 81   | 10   | 20   | 2   | 414 | 1   | 3.85 | 1.91  | 13  |
| Butler               | 53.0 | 84   | 10   | 21   | 2   | 378 | 6   | 3.23 | 1.09  | 17  | Putnam        | 51.8 | 82   | 10   | 25   | 1   | 413 | 4   | 3.82 | 1.73  | 17  |
| Camargo              | 50.7 | 82   | 29   | 18   | 2   | 443 | 1   | 3.95 | 1.12  | 16  | Watonga       | 52.9 | 81   | 10   | 27   | 1   | 380 | 4   | 4.85 | 1.55  | 13  |
| Cheyenne             | 52.0 | 81   | 29   | 27   | 1   | 405 | 1   | 3.37 | 1.25  | 22  | Weatherford   | 52.9 | 82   | 10   | 29   | 1   | 380 | 5   | 3.58 | 1.08  | 16  |
| Elk City             | 53.1 | 84   | 10   | 25   | 2   | 372 | 4   | 4.81 | 1.69  | 13  |               |      |      |      |      |     |     |     |      |       |     |
| <b>CENTRAL</b>       |      |      |      |      |     |     |     |      |       |     |               |      |      |      |      |     |     |     |      |       |     |
| Acme                 | 55.0 | 80   | 10   | 25   | 2   | 315 | 5   | 1.48 | 1.16  | 22  | Norman        | 55.4 | 79   | 10   | 30   | 2   | 302 | 5   | 2.51 | 1.64  | 22  |
| Bristow              | 54.0 | 78   | 16   | 25   | 2   | 347 | 4   | 2.90 | 1.63  | 22  | Oilton        | 53.6 | 77   | 16   | 25   | 2   | 359 | 5   | 2.77 | 1.26  | 22  |
| Lake Carl Blac       | 53.3 | 81   | 10   | 22   | 2   | 369 | 7   | 3.11 | .80   | 22  | OKC East      | 55.1 | 80   | 10   | 30   | 2   | 312 | 6   | 1.88 | 1.42  | 22  |
| Chandler             | 55.6 | 79   | 16   | 31   | 2   | 296 | 5   | 2.71 | 1.52  | 22  | Okemah        | 54.8 | 78   | 27   | 26   | 2   | 318 | 3   | 2.12 | 1.14  | 22  |
| Chickasha            | 54.1 | 81   | 10   | 24   | 2   | 343 | 7   | 1.40 | .96   | 22  | Perkins       | 54.4 | 80   | 16   | 28   | 2   | 334 | 6   | 2.46 | 1.09  | 22  |
| El Reno              | 53.0 | 82   | 10   | 25   | 1   | 379 | 6   | .90  | .36   | 22  | Seminole      | 56.0 | 80   | 16   | 29   | 2   | 284 | 6   | 2.43 | 1.65  | 22  |
| Guthrie              | 55.2 | 81   | 16   | 30   | 1   | 311 | 7   | 2.13 | .75   | 22  | Shawnee       | 55.3 | 78   | 16   | 30   | 2   | 305 | 4   | 2.75 | 2.01  | 22  |
| Kingfisher           | 53.4 | 80   | 10   | 25   | 2   | 365 | 5   | 2.69 | .77   | 17  | Spencer       | 55.7 | 80   | 16   | 31   | 1   | 293 | 6   | 2.43 | 1.44  | 22  |
| Marena               | 54.5 | 81   | 10   | 27   | 1   | 333 | 7   | 2.61 | 1.09  | 22  | Stillwater    | 54.2 | 82   | 10   | 24   | 2   | 344 | 8   | 2.58 | 1.01  | 22  |
| Minco                | 54.2 | 80   | 10   | 28   | 1   | 341 | 5   | 1.03 | .67   | 22  | Washington    | 55.8 | 80   | 10   | 33   | 7   | 290 | 6   | 2.66 | 2.24  | 22  |
| Marshall             | 53.4 | 80   | 10   | 25   | 2   | 367 | 6   | 5.61 | 2.11  | 12  | Yukon         | 54.8 | 81   | 16   | 28   | 1   | 321 | 6   | 1.83 | .73   | 22  |
| <b>EAST CENTRAL</b>  |      |      |      |      |     |     |     |      |       |     |               |      |      |      |      |     |     |     |      |       |     |
| Cookson              | 54.5 | 80   | 27   | 28   | 6   | 330 | 5   | 3.31 | .76   | 14  | Sallisaw      | 55.1 | 80   | 27   | 29   | 3   | 317 | 10  | 3.67 | .83   | 27  |
| Eufaula              | 55.5 | 79   | 27   | 30   | 2   | 295 | 1   | 1.97 | .79   | 22  | Stigler       | 54.6 | 81   | 27   | 29   | 2   | 325 | 3   | 3.73 | 1.02  | 22  |
| Haskell              | 54.2 | 80   | 27   | 27   | 2   | 339 | 3   | 1.64 | .55   | 14  | Stuart        | 56.0 | 77   | 27   | 32   | 7   | 286 | 7   | 2.53 | 1.11  | 22  |
| Hectorville          | 55.6 | 79   | 27   | 31   | 2   | 295 | 4   | 2.66 | .99   | 22  | Tahlequah     | 53.8 | 77   | 27   | 28   | 6   | 349 | 1   | 3.27 | .69   | 17  |
| Holdenville          | 56.0 | 78   | 27   | 32   | 6   | 283 | 4   | 2.04 | 1.16  | 22  | Webbers Falls | 55.0 | 79   | 27   | 31   | 2   | 314 | 4   | 3.18 | .89   | 22  |
| McAlester            | 55.5 | 79   | 27   | 29   | 2   | 302 | 6   | 2.78 | 1.04  | 22  | Westville     | 53.8 | 77   | 27   | 31   | 6   | 347 | 0   | 2.64 | .60   | 25  |
| Okmulgee             | 54.2 | 80   | 27   | 26   | 2   | 339 | 3   | 1.71 | .64   | 22  |               |      |      |      |      |     |     |     |      |       |     |
| <b>SOUTHWEST</b>     |      |      |      |      |     |     |     |      |       |     |               |      |      |      |      |     |     |     |      |       |     |
| Altus                | 54.2 | 87   | 10   | 25   | 2   | 342 | 8   | .86  | .65   | 22  | Hollis        | 53.6 | 86   | 10   | 21   | 2   | 357 | 4   | 3.08 | 1.66  | 13  |
| Apache               | 54.4 | 83   | 10   | 31   | 2   | 336 | 6   | .86  | .60   | 22  | Mangum        | 53.3 | 87   | 10   | 18   | 2   | 368 | 5   | 1.38 | .66   | 22  |
| Fort Cobb            | 53.9 | 83   | 10   | 27   | 2   | 349 | 6   | 1.64 | .47   | 22  | Medicine Park | 55.5 | 83   | 10   | 33   | 3   | 302 | 6   | 1.24 | .74   | 22  |
| Grandfield           | 56.1 | 85   | 10   | 30   | 2   | 285 | 10  | 1.22 | .63   | 22  | Tipton        | 54.3 | 87   | 10   | 24   | 2   | 340 | 9   | .94  | .56   | 22  |
| Hinton               | 52.9 | 81   | 10   | 30   | 19  | 379 | 5   | 2.15 | .76   | 22  | Walters       | 56.1 | 83   | 10   | 29   | 3   | 285 | 10  | 1.18 | .70   | 22  |
| Hobart               | 54.0 | 85   | 10   | 25   | 2   | 345 | 5   | 1.13 | .64   | 22  |               |      |      |      |      |     |     |     |      |       |     |
| <b>SOUTH CENTRAL</b> |      |      |      |      |     |     |     |      |       |     |               |      |      |      |      |     |     |     |      |       |     |
| Ada                  | 55.7 | 77   | 27   | 27   | 2   | 295 | 6   | 1.99 | 1.57  | 22  | Lane          | 56.5 | 80   | 27   | 28   | 3   | 282 | 18  | 1.91 | .78   | 22  |
| Ardmore              | 57.6 | 80   | 16   | 34   | 2   | 247 | 19  | 2.60 | 1.65  | 22  | Madill        | 57.6 | 79   | 16   | 30   | 2   | 249 | 19  | 2.14 | 1.35  | 22  |
| Burneyville          | 56.9 | 79   | 16   | 27   | 2   | 273 | 22  | 1.50 | 1.05  | 22  | Newport       | 57.5 | 80   | 16   | 34   | 2   | 252 | 19  | 1.86 | 1.49  | 22  |
| Byars                | 56.7 | 79   | 27   | 34   | 19  | 264 | 9   | 2.49 | 1.90  | 22  | Pauls Valley  | 56.1 | 80   | 16   | 29   | 2   | 285 | 9   | 3.05 | 2.38  | 22  |
| Centrahoma           | 56.6 | 78   | 27   | 29   | 2   | 274 | 12  | 2.48 | 1.62  | 22  | Ringling      | 57.5 | 81   | 16   | 31   | 2   | 250 | 17  | 1.60 | 1.34  | 22  |
| Durant               | 57.8 | 78   | 27   | 33   | 2   | 241 | 17  | 1.95 | .62   | 24  | Sulphur       | 56.2 | 79   | 16   | 25   | 2   | 286 | 12  | 1.78 | 1.51  | 22  |
| Fittstown            | 55.6 | 77   | 27   | 29   | 2   | 299 | 7   | 2.00 | 1.50  | 22  | Tishomingo    | 56.0 | 78   | 16   | 28   | 3   | 294 | 15  | 3.37 | 2.18  | 22  |
| Ketchum Ranch        | 56.7 | 80   | 10   | 30   | 2   | 268 | 9   | 1.52 | .94   | 22  | Waurika       | 57.4 | 83   | 10   | 27   | 2   | 253 | 18  | 2.12 | 1.11  | 22  |
| <b>SOUTHEAST</b>     |      |      |      |      |     |     |     |      |       |     |               |      |      |      |      |     |     |     |      |       |     |
| Antlers              | 55.9 | 80   | 27   | 28   | 3   | 296 | 13  | 2.42 | .81   | 24  | Mt Herman     | 54.9 | 76   | 27   | 30   | 3   | 324 | 10  | 4.19 | 1.58  | 25  |
| Broken Bow           | 55.7 | 80   | 27   | 28   | 3   | 298 | 10  | 3.93 | 1.27  | 25  | Talihina      | 55.5 | 79   | 27   | 27   | 3   | 311 | 17  | 2.72 | .86   | 25  |
| Clayton              | 55.6 | 79   | 27   | 30   | 7   | 304 | 13  | 2.24 | .56   | 22  | Valliant      | 56.2 | 77   | 27   | 30   | 3   | 289 | 17  | 3.53 | 1.19  | 22  |
| Cloudy               | 55.4 | 77   | 27   | 29   | 3   | 305 | 9   | 4.07 | 1.42  | 24  | Wilburton     | 55.6 | 79   | 27   | 32   | 3   | 302 | 10  | 2.72 | .72   | 25  |
| Hugo                 | 57.7 | 79   | 27   | 34   | 3   | 245 | 17  | 3.43 | 1.06  | 22  | Wister        | 53.7 | 79   | 27   | 26   | 3   | 362 | 11  | 3.23 | 1.31  | 25  |
| Idabel               | 56.5 | 78   | 27   | 32   | 3   | 280 | 18  | 4.   |       |     |               |      |      |      |      |     |     |     |      |       |     |

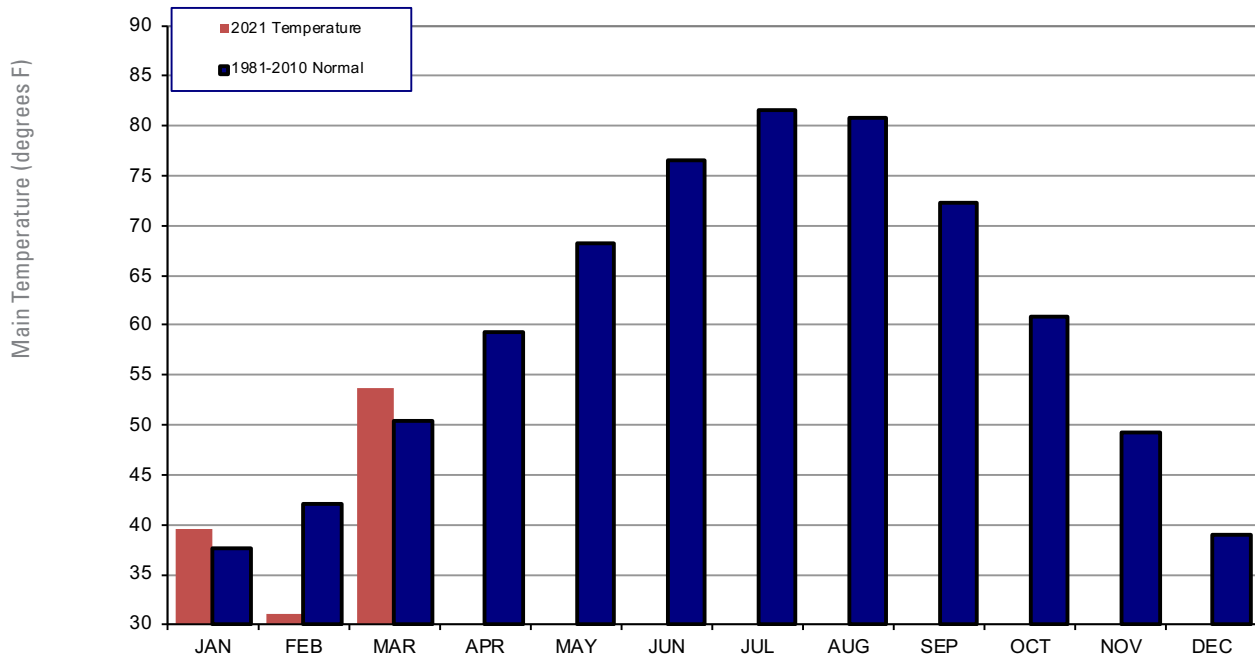
## 2021 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL



### March 2021 Mesonet Precipitation Comparison

| Climate Division | Precipitation (inches) | Departure from Normal (inches) | Rank since 1895 | Wettest on Record (Year) | Driest on Record (Year) | Mar-20 (inches) |
|------------------|------------------------|--------------------------------|-----------------|--------------------------|-------------------------|-----------------|
| Panhandle        | 2.74                   | 1.21                           | 8th Wettest     | 5.66 (1973)              | 0.01 (1936)             | 1.22            |
| North Central    | 4.48                   | 1.81                           | 7th Wettest     | 8.27 (1973)              | 0.00 (1936)             | 3.19            |
| Northeast        | 4.73                   | 1.22                           | 23rd Wettest    | 9.33 (1973)              | 0.33 (1971)             | 6.39            |
| West Central     | 3.82                   | 1.53                           | 9th Wettest     | 6.76 (1973)              | 0.00 (1971)             | 2.99            |
| Central          | 2.41                   | -0.73                          | 58th Wettest    | 7.45 (1990)              | 0.10 (1971)             | 5.61            |
| East Central     | 2.70                   | -1.18                          | 47th Driest     | 10.02 (1945)             | 0.52 (1941)             | 7.19            |
| Southwest        | 1.33                   | -1.04                          | 53rd Driest     | 5.61 (1973)              | 0.00 (1940)             | 4.71            |
| South Central    | 2.15                   | -1.33                          | 45th Driest     | 8.15 (1945)              | 0.28 (1950)             | 7.08            |
| Southeast        | 3.32                   | -1.19                          | 50th Driest     | 12.50 (1945)             | 0.96 (2011)             | 7.94            |
| Statewide        | 3.07                   | 0.03                           | 36th Wettest    | 7.43 (1973)              | 0.39 (1971)             | 5.16            |

## 2021 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL



### March 2021 Mesonet Temperature Comparison

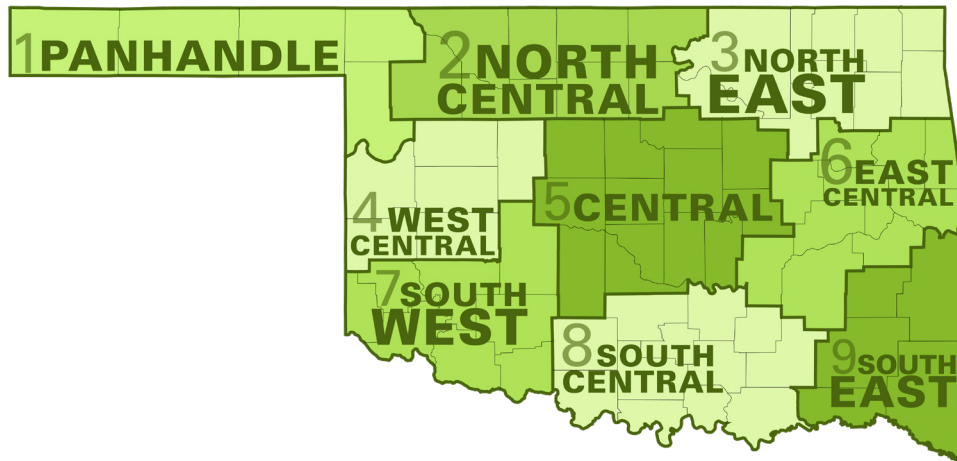
| Climate Division | Average Temp (F) | Departure from Normal (F) | Rank since 1895 | Hottest on Record (Year) | Coldest on Record (Year) | Mar-20 (F) |
|------------------|------------------|---------------------------|-----------------|--------------------------|--------------------------|------------|
| Panhandle        | 47.7             | 1.2                       | 39th Warmest    | 55.4 (2012)              | 34.1 (1958)              | 50.8       |
| North Central    | 52.1             | 3.8                       | 20th Warmest    | 58.5 (2012)              | 36.0 (1915)              | 52.6       |
| Northeast        | 53.4             | 3.7                       | 20th Warmest    | 59.7 (2012)              | 36.9 (1960)              | 54.8       |
| West Central     | 52.4             | 3.0                       | 27th Warmest    | 58.3 (1907)              | 37.2 (1915)              | 54.4       |
| Central          | 54.6             | 3.7                       | 21st Warmest    | 60.7 (2012)              | 38.6 (1915)              | 56.0       |
| East Central     | 54.9             | 3.2                       | 26th Warmest    | 61.2 (2012)              | 39.8 (1915)              | 57.2       |
| Southwest        | 54.4             | 2.4                       | 33rd Warmest    | 61.4 (1907)              | 40.6 (1915)              | 56.4       |
| South Central    | 56.8             | 3.4                       | 26th Warmest    | 62.1 (1907)              | 41.6 (1915)              | 58.8       |
| Southeast        | 55.7             | 3.2                       | 24th Warmest    | 62.0 (1907)              | 40.3 (1915)              | 58.6       |
| Statewide        | 53.6             | 3.2                       | 27th Warmest    | 59.6 (2012)              | 38.5 (1915)              | 55.5       |



## MESONET EXTREMES FOR MARCH 2021

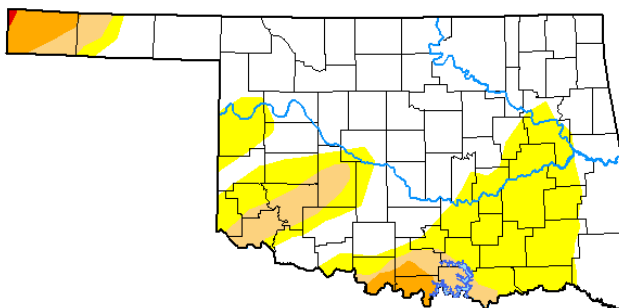
| Climate Division | High Temp (F) | Day  | Station   | Low Temp (F) | Day | Station             | High Monthly Rainfall (inches) | Station    | High Daily Rainfall (inches) | Day  | Station      |
|------------------|---------------|------|-----------|--------------|-----|---------------------|--------------------------------|------------|------------------------------|------|--------------|
| Panhandle        | 88            | 29th | Beaver    | 8            | 1st | Kenton              | 4.23                           | Buffalo    | 2.16                         | 13th | Hooker       |
| North Central    | 85            | 29th | May Ranch | 17           | 1st | Freedom             | 5.62                           | Freedom    | 2.11                         | 22nd | Freedom      |
| Northeast        | 81            | 27th | Porter    | 23           | 2nd | Nowata              | 8.06                           | Foraker    | 2.70                         | 13th | Vinita       |
| West Central     | 84            | 10th | Butler    | 18           | 2nd | Camargo             | 4.85                           | Watonga    | 1.91                         | 13th | Erick        |
| Central          | 82            | 10th | El Reno   | 22           | 2nd | Lake Carl Blackwell | 5.61                           | Marshall   | 2.24                         | 22nd | Washington   |
| East Central     | 81            | 27th | Stigler   | 26           | 2nd | Okmulgee            | 3.73                           | Stigler    | 1.16                         | 22nd | Holdenville  |
| Southwest        | 87            | 10th | Mangum    | 18           | 2nd | Mangum              | 3.08                           | Hollis     | 1.66                         | 13th | Hollis       |
| South Central    | 83            | 10th | Waurika   | 25           | 2nd | Sulphur             | 3.37                           | Tishomingo | 2.38                         | 22nd | Pauls Valley |
| Southeast        | 80            | 27th | Antlers   | 26           | 3rd | Wister              | 4.19                           | Mt Herman  | 1.58                         | 25th | Mt Herman    |
| Statewide        | 88            | 29th | Beaver    | 8            | 1st | Kenton              | 8.06                           | Foraker    | 2.70                         | 13th | Vinita       |

Oklahoma Climate Divisions



# U.S. Drought Monitor Oklahoma

**March 30, 2021**  
(Released Thursday, Apr. 1, 2021)  
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

|   | None  | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4   |
|---|-------|-------|-------|-------|-------|------|
| <b>Current</b>                              | 63.05 | 36.95 | 10.71 | 3.42  | 0.08  | 0.00 |
| <b>Last Week</b><br>03-23-2021              | 63.26 | 36.74 | 11.54 | 3.42  | 0.08  | 0.00 |
| <b>3 Months Ago</b><br>12-29-2020           | 56.83 | 43.17 | 25.21 | 7.75  | 1.45  | 0.00 |
| <b>Start of Calendar Year</b><br>12-29-2020 | 56.83 | 43.17 | 25.21 | 7.75  | 1.45  | 0.00 |
| <b>Start of Water Year</b><br>09-29-2020    | 66.79 | 33.21 | 17.71 | 11.97 | 1.55  | 0.00 |
| <b>One Year Ago</b><br>03-31-2020           | 95.89 | 4.11  | 2.52  | 0.84  | 0.00  | 0.00 |

Intensity:

- None
- 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. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>*

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[droughtmonitor.unl.edu](https://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/>



Oklahoma Climatological Survey is the State Climate Office for Oklahoma

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