With tornadoes and snow both being reported, January seemed to be quite the exciting month. The truth of the matter, however, is that the tornadoes were weak and the significant snowfall was confined to the extreme northern edge of the state. In the end, January ended up as warm and dry with not a lot of excitement thrown in, ranked as the 47th warmest and 16th driest on record. The month seemed windy, and the increased fire danger seems to confirm that suspicion. The only area with appreciable moisture was east central through northeastern Oklahoma where a band of more than three inches of liquid precipitation was recorded by the Oklahoma Mesonet.

## Precipitation

While all areas of the state were dry - save for parts of eastern Oklahoma - many Oklahoma Mesonet sites recorded less than a quarter of an inch of precipitation. In fact, three sites recorded no precipitation at all. The extreme fringes of the state in the west and south were parched throughout the month, continuing dry conditions that began in early fall. The statewide average precipitation was nearly an inch below normal.

## Temperature

The month was nearly two degrees above normal statewide with the southeast being the only section of the state below normal. Temperatures ranged from a high of 81 degrees recorded at Butler on the 28 th to a low of -4 degrees recorded at Boise City on the 17 th. Ten records were set during the month of January, all related to warm temperatures. McAlester tied its warmest minimum temperature for all of January with a 65-degree low temperature on the seventh.

| January 2008 Statewide Extremes |  |  |  |
| :---: | :---: | :---: | :---: |
| Description | Extreme | Station | Date |
| High Temperature | $81^{\circ} \mathrm{F}$ | Alva Butler | $\begin{array}{\|l\|} \hline \text { Jan. } 28 \\ \text { Jan. } 28 \end{array}$ |
| Low Temperature | $-4^{\circ} \mathrm{F}$ | Boise City | Jan. 17 |
| High Precipitation | 3.56 in. | Haskell |  |
| Low Precipitation | 0.00 in . | Altus Cherokee Freedom |  |

## January Daily Highlights

January 1-6: A cold start to the month finally gave way to some warm weather by the fourth. After highs in the 30s and 40s for a few days, strong southerly winds kicked in on the fourth which allowed temperatures to increase into the 50 s and 60 s . The winds got out of hand the next couple of days, however, gusting to over 45 mph . The temperatures skyrocketed on the fifth and sixth. Oklahoma City set record highs both days, 72 degrees on the fifth and 75 degrees on the sixth, and temperatures around the state were 15-20 degrees above normal. Unfortunately, the high temperatures and winds exacerbated wildfire conditions and several large fires ignited on the sixth.

January 7-8: The only real severe weather during January came on the seventh as a dry line moved into western Oklahoma. Thunderstorms fired in the afternoon and marched across the state. Three weak tornadoes touched down in the northeast with little damage being reported. Up to two-inch hail was reported in the northeast and thunderstorm winds across the state gusted to over 60 mph . A 74 mph wind gust was reported by the Adair Mesonet site. Heavy rains were also a problem as flash flooding was widespread in east central parts of the state. A wide swath of three-inch rains fell in that area. The cold front continued to move across the state on the eighth. Highs that day were much more suitable for winter in the 40s and 50 s , which together with the strong winds produced wind chills in the 30s.

January 9-15: The weather calmed considerably following the severe episode on the seventh. The winds were still fairly strong for the next seven days and temperatures moderated into the 50 s and 60 s for the most part. Skies were mostly clear throughout this period.

January 16-20: A strong cold front greeted the day on the 16th. Temperatures dropped into the 20s and 30s behind the front with some light freezing drizzle to add travel problems to the cold weather. Lows plummeted on the 17th. The Boise City Mesonet site recorded a low temperature of -4 degrees, the coldest measured temperature of the month. Several other northwestern sites were below freezing as well, with single digits and teens scattered across the rest of the state. Temperatures recovered into the 30s later that day. The weather remained seasonable, if not below normal, through the 20th.

January 21-27: Another cold front on the 21st generated a round of light freezing drizzle as it collided with milder and more humid air from the Gulf. The cold front meant more seasonable weather for the next few days until temperatures began to moderate on the 25 th. A few 60 s were recorded in the southern parts of the state, but a few 30s remained in the extreme north. Highs increased on the 26th and 27th into the 60s and 70s.

January 28-31: An approaching upper-level storm system on the 28th kicked winds up from the south at 35 mph as moisture surged in from the south as well. A fast-moving cold front on the 29th set the stage for a bit of snow in the northwest and winds gusted to over 55 mph behind the front. A few winds of 60 mph were recorded by the Oklahoma Mesonet in northwestern Oklahoma. The 30th was clear and mild with highs in the 50s and 60 s . More strong winds with gusts to over 50 mph popped up in the northwest. A final cold front was in store for the month's final day with snow and strong winds. The heaviest snow was confined to the extreme northern edge of the state where 5-8 inches fell in localized areas. Lesser amounts of 1-3 inches fell near I-40, while southern Oklahoma was left out of the snowy weather.

| January 2008 Statewide Statistics |
| :--- | :--- | :--- | :--- |
| Temperature |
| Average |$\quad$ Depart. | Rank (1895-2008) |
| :--- |$|$| Month (Jan) | $38^{\circ} \mathrm{F}$ | $1.9^{\circ} \mathrm{F}$ | 47 th Warmest |
| :--- | :--- | :--- | :--- |
| Season-to-Date <br> (Dec-Jan) | $37.9^{\circ} \mathrm{F}$ | $0.4^{\circ} \mathrm{F}$ | 51 st Coolest |

Precipitation
Total Depart. Rank (1895-2008)

| Month (Jan) | 0.52 in. | -0.93 in. | 16th Driest |
| :--- | :--- | :--- | :--- |
| Season-to-Date <br> (Dec-Jan) | 2.65 in. | -0.82 in. | 40 th Driest |

Depart. $=$ Departure from 30-year normal

## January 2008 Severe Weather

## Significant Tornadoes (EF2 or greater)

No significant tornadoes were reported in the state.

## Hail (2 inches in diameter or greater)

| Size (in.) | Location | County | Day |
| :---: | :---: | :---: | :---: |
| 2 | Tahlequah | Cherokee | 7 |

## Wind Gusts ( $\mathbf{7 0} \mathbf{m p h}$ or greater)

| Speed (m.p.h.) | Location |  | County |
| :--- | :--- | :--- | :--- |
| Day |  |  |  |
| 74 | 5 S Adair | Mayes | 8 |

## Flooding

| Location County | Day |  |
| :--- | :--- | :--- |
| 4 SE Peggs | Cherokee | 7 |
| Weleetka | Okfuskee | 7 |
| 3 SW Peggs | Cherokee | 7 |
| 5 E Hulbert | Cherokee | 7 |
| 4 W Okay | Wagoner | 7 |
| 10 N Proctor | Adair | 7 |
| Jamesville | Muskogee | 7 |
| 2 N Henryetta | Okmulgee | 7 |
| 2 W Eram | Okmulgee | 7 |
| Colcord | Delaware | 7 |

## Record Event Reports

| Description | Location | Record |  | Previous Record | Year |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Warmest Maximum <br> Temperature | 5 | Oklahoma City | 72 F | 71 F | 1927 |
| Warmest Minimum <br> Temperature (Tie) | 5 | Oklahoma City | 48 F | 48 F | 1948 |
| Warmest Maximum <br> Temperature (Tie) | 5 | McAlester | 72 F | 72 F | 1989 |
| Warmest Minimum <br> Temperature | 6 | Oklahoma City | 57 F | 52 F | 1907 |
| Warmest Maximum <br> Temperature | 6 | Oklahoma City | 75 F | 68 F | 1921 |
| Warmest Maximum <br> Temperature | 6 | Tulsa | 74 F | 69 F | 1907 |
| Warmest Maximum <br> Temperature | 6 | McAlester | 74 F | 69 F | 1965 |
| Warmest Maximum <br> Temperature | 7 | McAlester | 76 F | 74 F | 1965 |
| Warmest Jan. Min. <br> Temperature (Tie) | 7 | McAlester | 65 F | 65 F | 2004 |
| Warmest Minimum <br> Temperature | 7 | McAlester | 65 F | 59 F | 1965 |

## January 2008 Observed Precipitation



## January 2008 Departure from Normal Precipitation




January 2008 Average Soil Moisture at 25cm


January 2008 Average Temperature


January 2008 Departure from Normal Temperature


| NAME | $\begin{aligned} & \text { MEAN } \\ & \text { TEMP } \end{aligned}$ | HIGH <br> TEMP | DAY | $\begin{aligned} & \text { LOW } \\ & \text { TEMP } \end{aligned}$ | DAY | HDD | CDD |  | $\begin{aligned} & \text { HIGH } \\ & 24-\mathrm{HR} \end{aligned}$ | DAY | NAME | $\begin{aligned} & \text { MEAN } \\ & \text { TEMP } \end{aligned}$ | HIGH TEMP | DAY | $\begin{aligned} & \text { LOW } \\ & \text { TEMP } \end{aligned}$ | DAY | HDD | CDD |  | $\begin{aligned} & \text { HIGH } \\ & 24-\mathrm{HR} \end{aligned}$ | DAY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PANHANDLE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Arnett | 37.4 | 76 | 28 | 7 | 24 | 857 | 0 | . 01 | . 01 | 31 | Goodwell | 35.6 | 71 | 27 | 0 | 17 | 911 | 0 | . 21 | . 11 | 7 |
| Beaver | 35.7 | 74 | 28 | 2 | 17 | 908 | 0 | . 11 | . 07 | 7 | Hooker | 35.1 | 73 | 27 | -3 | 17 | 928 | 0 | . 08 | . 07 | 7 |
| Boise City | 33.1 | 68 | 27 | -4 | 17 | 988 | 0 | . 06 | . 05 | 8 | Kenton | 33.1 | 70 | 27 | -3 | 17 | 988 | 0 | . 08 | . 08 | 8 |
| Buffalo | 37.0 | 76 | 28 | 7 | 24 | 869 | 0 | . 18 | . 13 | 7 | Slapout | 36.8 | 74 | 28 | 5 | 22 | 874 | 0 | . 13 | . 10 | 7 |
| north CEntral |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alva | 36.2 | 81 | 28 | 3 | 31 | 892 | 1 | . 01 | . 01 | 7 | May Ranch | 36.4 | 76 | 28 | 7 | 22 | 885 | 0 | . 03 | . 02 | 7 |
| Blackwell | 35.8 | 73 | 6 | 7 | 24 | 906 | 0 | 1.05 | . 71 | 7 | Medford | 36.2 | 72 | 6 | 8 | 24 | 892 | 0 | . 25 | . 22 | 7 |
| Breckinridge | 36.9 | 74 | 6 | 10 | 24 | 872 | 0 | . 79 | . 74 | 7 | Newkirk | 35.3 | 73 | 6 | 6 | 24 | 921 | 0 | . 76 | . 29 | 7 |
| Cherokee | 36.5 | 77 | 28 | 6 | 31 | 883 | 0 | . 00 | . 00 | 1 | Red Rock | 37.0 | 75 | 6 | 8 | 24 | 870 | 0 | . 58 | . 32 | 7 |
| Fairview | 38.2 | 76 | 6 | 9 | 24 | 830 | 1 | . 05 | . 04 | 7 | Seiling | 36.6 | 79 | 28 | 2 | 31 | 879 | 0 | . 03 | . 02 | 30 |
| Freedom | 36.9 | 78 | 28 | 8 | 22 | 871 | 0 | . 00 | . 00 | 1 | Woodward | 38.2 | 78 | 28 | 8 | 24 | 831 | 1 | . 01 | . 01 | 8 |
| Lahoma | 37.2 | 73 | 6 | 9 | 24 | 861 | 0 | . 24 | . 22 | 7 |  |  |  |  |  |  |  |  |  |  |  |
| NORTHEAST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bixby | 37.9 | 74 | 7 | 13 | 24 | 845 | 4 | 1.22 | . 76 | 8 | Nowata | 35.1 | 73 | 7 | 6 | 24 | 927 | 0 | . 51 | . 38 | 8 |
| Burbank | 35.7 | 76 | 6 | 6 | 24 | 908 | 0 | . 57 | . 23 | 16 | Pawnee | 37.1 | 75 | 6 | 9 | 24 | 867 | 1 | . 57 | . 19 | 8 |
| Claremore | 37.7 | 74 | 6 | 9 | 24 | 850 | 3 | . 74 | . 54 | 8 | Porter | 38.0 | 74 | 7 | 12 | 24 | 840 | 3 | 3.47 | 2.75 | 7 |
| copan | 35.1 | 74 | 6 | 6 | 24 | 929 | 1 | . 68 | . 39 | 8 | Pryor | 36.5 | 73 | 6 | 9 | 24 | 887 | 3 | 1.67 | . 78 | 7 |
| Foraker | 35.1 | 74 | 6 | 6 | 24 | 928 | 0 | . 64 | . 31 | 8 | Skiatook | 37.0 | 74 | 6 | 9 | 24 | 871 | 2 | . 59 | . 41 | 8 |
| Inola | 36.1 | 73 | 6 | 11 | 24 | 895 | 0 | 1.35 | . 64 | 8 | Vinita | 35.1 | 72 | 7 | 6 | 24 | 926 | 0 | . 68 | . 37 | 8 |
| Jay | 36.5 | 73 | 6 | 9 | 24 | 887 | 3 | 2.45 | 1.34 | 7 | Wynona | 36.1 | 74 | 6 | 8 | 24 | 897 | 2 | . 56 | . 28 | 8 |
| Miami | 36.3 | 71 | 6 | 7 | 24 | 891 | 1 | . 68 | . 48 | 8 |  |  |  |  |  |  |  |  |  |  |  |
| WEST CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bessie | 39.5 | 77 | 6 | 11 | 19 | 790 | 0 | . 53 | . 52 | 7 | Putnam | 38.0 | 75 | 28 | 9 | 19 | 837 | 0 | . 04 | . 03 | 7 |
| Butler | 38.0 | 81 | 28 | 9 | 19 | 837 | 1 | . 07 | . 06 | 7 | Retrop | 39.8 | 78 | 28 | 12 | 24 | 782 | 0 | . 22 | . 21 | 7 |
| Camargo | 36.1 | 79 | 28 | 7 | 31 | 895 | 0 | . 03 | . 03 | 7 | Watonga | 38.9 | 73 | 6 | 11 | 24 | 810 | 0 | . 98 | . 96 | 7 |
| Cheyenne | 39.3 | 77 | 28 | 10 | 19 | 798 | 0 | . 07 | . 05 | 7 | Weatherford | 38.2 | 74 | 6 | 12 | 24 | 832 | 0 | . 65 | . 63 | 7 |
| Erick | 38.2 | 79 | 28 | 9 | 19 | 832 | 0 | . 04 | . 04 | 7 |  |  |  |  |  |  |  |  |  |  |  |
| CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Acme | 39.8 | 76 | 6 | 10 | 23 | 783 | 1 | . 12 | . 10 | 7 | Norman | 39.7 | 76 | 6 | 14 | 19 | 787 | 3 | . 24 | . 16 | 8 |
| Bowlegs | 38.9 | 74 | 7 | 12 | 23 | 813 | 4 | . 46 | . 30 | 7 | Oilton | 36.5 | 74 | 6 | 9 | 23 | 885 | 2 | . 79 | . 51 | 8 |
| Bristow | 37.2 | 74 | 7 | 11 | 23 | 865 | 4 | 1.03 | . 84 | 8 | OKC East | 39.6 | 75 | 6 | 13 | 24 | 788 | 1 | . 80 | . 67 | 8 |
| Chandler | 38.9 | 75 | 6 | 11 | 24 | 813 | 5 | . 61 | . 51 | 8 | OKC North | 40.3 | 75 | 6 | 12 | 24 | 767 | 2 | . 46 | . 20 | 8 |
| Chickasha | 38.5 | 75 | 6 | 11 | 2 | 822 | 1 | . 15 | . 08 | 16 | OKC West | 40.1 | 75 | 6 | 15 | 24 | 772 | 1 | . 52 | . 26 | 8 |
| El Reno | 37.7 | 73 | 6 | 10 | 19 | 847 | 0 | . 68 | . 58 | 7 | Okemah | 38.2 | 73 | 7 | 12 | 23 | 836 | 3 | 1.00 | . 72 | 7 |
| Guthrie | 39.2 | 75 | 6 | 11 | 24 | 801 | 2 | . 35 | . 17 | 7 | Perkins | 38.3 | 74 | 6 | 11 | 24 | 830 | 1 | . 64 | . 47 | 7 |
| Kingfisher | 38.1 | 75 | 6 | 13 | 31 | 834 | 0 | . 52 | . 39 | 7 | Shawnee | 38.9 | 73 | 7 | 11 | 19 | 812 | 2 | . 09 | . 04 | 16 |
| Marena | 37.9 | 75 | 6 | 10 | 24 | 841 | 1 | . 36 | . 16 | 7 | Spencer | 39.6 | 75 | 6 | 12 | 24 | 789 | 1 | . 71 | . 63 | 8 |
| Minco | 38.4 | 73 | 6 | 13 | 24 | 825 | 0 | . 49 | . 38 | 7 | Stillwater | 37.8 | 76 | 6 | 10 | 23 | 845 | 2 | . 56 | . 35 |  |
| Marshall | 37.9 | 74 | 6 | 11 | 24 | 841 | 0 | . 67 | . 53 | 7 | Washington | 39.4 | 76 | 6 | 13 | 19 | 797 | 3 | . 12 | . 06 | 16 |
| Ninnekah | 39.4 | 75 | 6 | 11 | 23 | 796 | 1 | . 13 | . 07 | 16 |  |  |  |  |  |  |  |  |  |  |  |
| east central |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Calvin | 38.2 | 75 | 7 | 12 | 20 | 834 | 4 | . 21 | . 07 | 16 | Sallisaw | 37.9 | 76 | 6 | 12 | 3 | 849 | 8 | . 36 | . 11 | 21 |
| Cookson | 36.4 | 73 | 6 | 9 | 23 | 890 | 3 | . 34 | . 14 | 8 | Stigler | 38.0 | 74 | 6 | 13 | 3 | 844 | 8 | . 49 | . 32 | 21 |
| Eufaula | 39.4 | 74 | 7 | 15 | 24 | 798 | 5 | . 57 | . 25 | 7 | Stuart | 39.3 | 75 | 7 | 15 | 19 | 803 | 5 | . 54 | . 24 | 21 |
| Haskell | 37.7 | 74 | 7 | 12 | 24 | 850 | 3 | 3.56 | 2.63 | 7 | Tahlequah | 37.2 | 74 | 6 | 11 | 3 | 864 | 2 | 2.86 | 2.12 | 7 |
| Hectorville | 38.6 | 74 | 7 | 12 | 24 | 824 | 5 | 1.13 | . 86 | 8 | Webbers Falls | 37.9 | 75 | 7 | 13 | 3 | 847 | 7 | . 20 | . 06 | 23 |
| McAlester | 38.4 | 75 | 7 | 14 | 23 | 831 | 7 | . 63 | . 28 | 21 | Westville | 36.6 | 71 | 6 | 10 | 2 | 883 | 2 | . 93 | . 55 | 8 |
| Okmulgee | 38.6 | 75 | 7 | 13 | 24 | 825 | 6 | 2.34 | 1.87 | 7 |  |  |  |  |  |  |  |  |  |  |  |
| SOUTHWEST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Altus | 40.3 | 80 | 6 | 14 | 2 | 765 | 0 | . 00 | . 00 | 1 | Hollis | 39.3 | 80 | 28 | 10 | 19 | 796 | 0 | . 05 | . 03 | 7 |
| Apache | 39.7 | 75 | 6 | 12 | 19 | 783 | 0 | . 05 | . 02 | 7 | Mangum | 37.9 | 80 | 6 | 7 | 19 | 839 | 0 | . 02 | . 01 | 21 |
| Fort Cobb | 39.1 | 75 | 6 | 14 | 23 | 804 | 0 | . 51 | . 49 | 7 | Medicine Park | 41.1 | 75 | 6 | 15 | 23 | 742 | 0 | . 03 | . 01 | 7 |
| Grandfield | 41.0 | 79 | 6 | 12 | 18 | 743 | 0 | . 03 | . 03 | 22 | Tipton | 40.8 | 78 | 6 | 12 | 19 | 749 | 0 | . 01 | . 01 | 21 |
| Hinton | 38.7 | 75 | 6 | 13 | 24 | 815 | 0 | . 59 | . 54 | 7 | Walters | 40.8 | 79 | 5 | 12 | 18 | 753 | 1 | . 01 | . 01 | 22 |
| Hobart | 38.7 | 77 | 6 | 11 | 19 | 816 | 0 | . 03 | . 02 | 21 |  |  |  |  |  |  |  |  |  |  |  |
| SOUTH CENTRAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ada | 39.1 | 74 | 7 | 14 | 23 | 807 | 3 | . 21 | . 09 | 7 | Madill | 40.9 | 76 | 5 | 14 | 23 | 752 | 4 | . 38 | . 26 | 21 |
| Ardmore | 41.1 | 75 | 5 | 15 | 20 | 745 | 3 | . 10 | . 04 | 21 | Newport | 41.2 | 77 | 5 | 14 | 20 | 742 | 4 | . 07 | . 02 | 22 |
| Burneyville | 40.2 | 77 | 7 | 12 | 2 | 774 | 5 | . 14 | . 08 | 21 | Pauls Valley | 40.2 | 76 | 5 | 14 | 23 | 775 | 6 | . 05 | . 01 | 7 |
| Byars | 40.1 | 74 | 7 | 13 | 19 | 775 | 3 | . 47 | . 42 | 7 | Ringling | 40.7 | 77 | 6 | 11 | 18 | 758 | 4 | . 06 | . 03 | 3 |
| Centrahoma | 38.6 | 76 | 7 | 12 | 18 | 823 | 5 | . 47 | . 28 | 21 | Sulphur | 37.9 | 74 | 7 | 10 | 18 | 844 | 3 | . 16 | . 11 | 7 |
| Durant | 40.8 | 77 | 7 | 16 | 20 | 758 | 6 | . 48 | . 21 | 21 | Tishomingo | 39.3 | 77 | 7 | 14 | 18 | 801 | 3 | . 26 | . 15 | 21 |
| Fittstown | 38.9 | 73 | 7 | 14 | 23 | 812 | 2 | . 14 | . 08 | 21 | Vanoss | 38.8 | 74 | 7 | 12 | 23 | 816 | 4 | . 48 | . 40 | 7 |
| Ketchum Ranch | 41.3 | 79 | 6 | 13 | 23 | 739 | 4 | . 03 | . 01 | 21 | Waurika | 41.1 | 79 | 6 | 13 | 18 | 745 |  | . 03 | . 02 | 22 |
| Lane | 39.1 | 76 | 7 | 14 | 18 | 809 | 4 | . 48 | . 25 | 21 |  |  |  |  |  |  |  |  |  |  |  |
| SOUTHEAST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Antlers | 39.1 | 77 | 7 | 11 | 20 | 810 | 7 | . 76 | . 30 | 21 | Idabel | 40.1 | 77 | 6 | 14 | 3 | 778 | 6 | 1.22 | . 44 | 8 |
| Broken Bow | 38.9 | 77 | 6 | 13 | 3 | 812 | 3 | 1.45 | . 41 | 8 | Mt Herman | 38.9 | 73 | 6 | 15 | 3 | 813 | 3 | 1.45 | . 57 | 8 |
| Clayton | 39.5 | 74 | 6 | 12 | 3 | 797 | 8 | . 72 | . 26 | 21 | Talihina | 39.2 | 74 | 6 | 11 | 3 | 807 | 7 | . 98 | . 32 | 8 |
| Cloudy | 38.8 | 75 | 6 | 14 | 20 | 814 | 2 | 1.01 | . 32 | 31 | Wilburton | 38.4 | 74 | 6 | 12 | 20 | 832 | 8 | . 57 | . 26 | 21 |
| Hugo | 40.5 | 75 | 7 | 17 | 18 | 766 | 7 | . 79 | . 31 | 21 | Wister | 38.4 | 75 | 6 | 9 | 20 | 835 | 10 | . 77 | . 27 | 31 |

January 2008 Mesonet Precipitation Comparison

| Climate Division | Precipitation (inches) | Departure from Normal (inches) | Rank since 1895 | Wettest on Record (Year) | Driest on Record (Year) | Jan-07 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Panhandle | 0.11 | -0.41 | 15th Driest | 1.64 (1939) | 0.01 (1904) | 0.66 |
| North Central | 0.29 | -0.64 | 27th Driest | 4.43 (1949) | 0.00 (1912) | 0.88 |
| Northeast | 1.09 | -0.48 | 44th Driest | 6.01 (1949) | 0.01 (1986) | 2.11 |
| West Central | 0.29 | -0.59 | 34th Driest | 4.08 (1949) | 0.00 (1912) | 0.72 |
| Central | 0.50 | -0.87 | 28th Driest | 6.18 (1949) | 0.00 (1912) | 1.81 |
| East Central | 1.09 | -1.04 | 30th Driest | 7.99 (1932) | 0.04 (1986) | 3.36 |
| Southwest | 0.12 | -0.94 | 15th Driest | 4.89 (1949) | 0.00 (1902) | 1.45 |
| South Central | 0.24 | -1.66 | 9th Driest | 6.85 (1932) | 0.00 (1909) | 2.63 |
| Southeast | 0.97 | -1.84 | 15th Driest | 11.08 (1932) | 0.11 (2003) | 5.21 |
| Statewide | 0.52 | -0.93 | 16th Driest | 5.23 (1949) | 0.04 (1986) | 2.05 |

2007 and 2008 Statewide Precipitation: Monthly Totals vs. Normal


## January 2008 Mesonet Temperature Comparison

| Climate Division | Average Temp (F) | Departure from Normal (F) | Rank since 1895 | Hottest on Record (Year) | Coldest on Record (Year) | Jan-07 (F) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Panhandle | 35.5 | 2.5 | 42nd Warmest | 42.6 (1953) | 19.5 (1930) | 29.2 |
| North Central | 36.7 | 3.2 | 37th Warmest | 45.2 (2006) | 19.4 (1930) | 32.7 |
| Northeast | 36.4 | 1.8 | 50th Warmest | 46.0 (2006) | 21.3 (1940) | 34.1 |
| West Central | 38.4 | 3.4 | 34th Warmest | 46.4 (2006) | 20.8 (1930) | 34.0 |
| Central | 38.7 | 2.5 | 37th Warmest | 47.4 (2006) | 22.5 (1930) | 35.4 |
| East Central | 38.0 | 0.7 | 51st Coolest | 47.7 (1933) | 24.8 (1940) | 36.4 |
| Southwest | 39.8 | 2.3 | 43rd Warmest | 47.8 (1923) | 24.2 (1930) | 36.2 |
| South Central | 40.0 | 0.9 | 54th Coolest | 49.5 (1923) | 27.0 (1930) | 37.7 |
| Southeast | 39.2 | -0.4 | 38th Coolest | 49.4 (1952) | 28.3 (1979) | 38.6 |
| Statewide | 38.0 | 1.9 | 47th Warmest | 46.6 (2006) | 23.5 (1930) | 34.8 |

2007 and 2008 Statewide Temperature: Monthly Averages vs. Normal


Mesonet Extremes for January 2008

| Climate Division | High <br> (F) | Day | Station | Low Temp <br> (F) | Day | Station | High Monthly Rainfall (inches) | Station | $\begin{gathered} \text { High } \\ \text { Daily } \\ \text { Rainfall } \\ \text { (inches) } \end{gathered}$ | Day | Station |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Panhandle | 76 | 28th | Buffalo | -4 | 17th | Boise City | 0.21 | Goodwell | 0.13 | 7th | Buffalo |
| North Central | 81 | 28th | Alva | 2 | 31st | Seiling | 1.05 | Blackwell | 0.74 | 7th | Breckinridge |
| Northeast | 76 | 6th | Burbank | 6 | 24th | Foraker | 3.47 | Porter | 2.75 | 7th | Porter |
| West Central | 81 | 28th | Butler | 7 | 31st | Camargo | 0.98 | Watonga | 0.96 | 7th | Watonga |
| Central | 76 | 6th | Washington | 9 | 23rd | Oilton | 1.03 | Bristow | 0.84 | 8th | Bristow |
| East Central | 76 | 6th | Sallisaw | 9 | 23rd | Cookson | 3.56 | Haskell | 2.63 | 7th | Haskell |
| Southwest | 80 | 6th | Mangum | 7 | 19th | Mangum | 0.59 | Hinton | 0.54 | 7th | Hinton |
| South Central | 79 | 6th | Waurika | 10 | 18th | Sulphur | 0.48 | Vanoss | 0.42 | 7th | Byars |
| Southeast | 77 | 6th | Idabel | 9 | 20th | Wister | 1.45 | Broken Bow | 0.57 | 8th | Mt Herman |
| Statewide | 81 | 28th | Butler | -4 | 17th | Boise City | 3.56 | Haskell | 2.75 | 7th | Porter |

## February Climatological Outlook

NORMAN - February is the warmest of the Oklahoma's three winter months, a product of the combination of gradually lengthening days - often heralding an illusory approach of spring - and the very real existence of the continuing winter. Recorded temperatures in Oklahoma during the second month of the year traverse a range of 126 degrees Fahrenheit, from 99 degrees at Arapaho on February 24, 1918 to -27 degrees at Vinita on February 13, 1905. The latter thermometer reading is tied as the state's all-time lowest temperature. Oklahoma's normal monthly temperature, based on data obtained from 1971 through 2000, is 42.3 degrees. Monthly values of normal daily maximum temperatures across the state range between 60.3 degrees along the Red River at Waurika and 49.5 degrees at Newkirk near the state's northern border. Normal daily minimum temperatures vary between 34.4 degrees at Waurika and 22.0 degrees in the Panhandle at Beaver. The monthly mean temperatures for February, compiled as a statewide average since 1892, have varied between a high of 50.7 degrees in 1954 and a low of 26.6 degrees in both 1899 and 1905.

## Precipitation

Mean: 1.77 inches
Wettest February: 1938, 6.44 inches
Driest February: 1947 and 1996, 0.20 inches
Wettest location: Idabel, 3.60 inches
Driest location: Kenton, 0.33 inches
Most recorded: 13.21 inches, Tuskahoma, 1945
Of all the other months, only January has a normal precipitation lower, when averaged statewide, than February's 1.77 inches. Southeastern Oklahoma's Idabel possesses the state's greatest precipitation normal during February at 3.60 inches. Kenton, in the shadow of Black Mesa, gains distinction as the state's driest reporting station during February with a normal total of 0.33 inch. The February statewide-averaged precipitation varies substantially, being bounded by a low of 0.18 inch attained 1996 and a high of, 4.66 inches in 1938. In contrast to the many stations that have suffered through February precipitation voids, Tuskahoma was treated to an excessive 13.21 inches during February 1945. Snow is an important part of the precipitation picture in northwestern Oklahoma. Helena and Woodward both average about 4.7 inches of snow during February, compared to less than one-half inch at stations in southeastern Oklahoma.

## Temperature

Mean: 42.3 degrees
Warmest February: 1954, 51.8 degrees
Coolest February: 1899, 27.9 degrees
Hottest recorded: 99 degrees, Arapaho, February 24, 1918
Coldest recorded: -27 degrees, Vinita, February 13, 1905
Oklahoma's extreme snowstorm of record was the blizzard of February 21-23, 1971. This blizzard buried northwestern Oklahoma under as much as three feet of snow, not accounting for drifts. Buffalo was the hardest hit, reporting 23 inches of snow on the 21 st and a state-record snow depth of 36 inches by the morning of the 24th. The snow was driven by winds 30 to 50 miles per hour, producing drifts as high as 20 feet. Military cargo planes were used to airdrop hay to cattle stranded in the far-flung pastures of the region. Losses to agriculture were estimated at $\$ 2.1$ million (1971 dollars). Lost livestock included approximately 11,000 cattle, 3,500 hogs, and 1,000 sheep. Buffalo reported a total of 39.5 inches of snow during the month (a state record for all months).

## Tornadoes

Average February Tornadoes: 0.8
Most: 6 (1975)

Tornadoes are not generally considered a February phenomenon, but a total of 44 February tornadoes have been recorded across the state since 1950, including six in 1975. Three people were killed on February 22, 1975, bringing the confirmed total of February tornado deaths in the state to nine, according to storm-by-storm death tolls compiled by Thomas P. Grazulis and published in the book "Significant Tornadoes: 1880-1989."

February Normal Daily Maximum Temperature (1971-2000)


February Normal Daily Minimum Temperature (1971-2000)


February Normal Precipitation (1971-2000)


February 1, 2008 Soil Moisture Conditions at 25cm


## U.S. Drought Monitor <br> Oklahoma

January 29, 2008
Valid 7 atm. EST

|  | Drought Conditions (Percent Area) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | DA |
| Current | 48.5 | 51.5 | 8.5 | 0.0 | 0.0 | 0.0 |
| Last Week <br> (01/2222008 map) | 58.7 | 41.3 | 8.5 | 0.0 | 0.0 | 0.0 |
| 3 Months Ago <br> (11/0612007 map) | 76.7 | 23.3 | 6.0 | 0.0 | 0.0 | 0.0 |
| Start of <br> Calendar Year <br> (01/012008 map) | 83.4 | 16.6 | 7.1 | 0.0 | 0.0 | 0.0 |
| Start of <br> Water Year <br> (100222007 map) | 95.6 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| One Year Ago <br> (01/3012007 map) | 50.2 | 49.8 | 26.9 | 15.5 | 0.0 | 0.0 |

[

Intensity:

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements
http://drought.unl.edu/dm
.

```
D0 Abnormally Dry
D1 Drought \(~\) Moderate
D3 Drought - Extreme
D4 Drought - Exceptional
D2 Drought - Severe
D0 Abnormally Dry
    D2 Drought - Severe
```




Released Thursday, January 31, 2008 Author: David Miskus, JAWF/CPC/NOAA


February 2008 U.S. Precipitation Forecast


## February 2008 U.S. Temperature Forecast



## February Climate Normals

| Climate Division | Max. Temperature $\left({ }^{\circ} \mathbf{F}\right)$ | Min. Temperature $\left({ }^{\circ} \mathbf{F}\right)$ | Avg. Temperature $\left.{ }^{\circ}{ }^{\circ} \mathbf{F}\right)$ | Precipitation (inches) |
| :--- | :--- | :--- | :--- | :--- |
| 1 | 53.3 | 23.8 | 38.6 | 0.64 |
| 2 | 51.4 | 25.1 | 38.3 | 1.23 |
| 3 | 52.9 | 28.8 | 40.9 | 1.96 |
| 4 | 53.2 | 26.9 | 40.1 | 1.09 |
| 5 | 53.9 | 29.2 | 41.6 | 1.77 |
| 6 | 54.4 | 31.2 | 42.8 | 2.35 |
| 7 | 55.9 | 29.0 | 42.5 | 1.36 |
| 8 | 56.8 | 31.9 | 44.4 | 2.21 |
| 9 | 57.3 | 31.9 | 44.6 | 3.13 |
| Statewide | 54.2 | 28.7 | 41.5 | 1.82 |

Oklahoma Climate Divisions


## 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 may 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 may result in an artificially high or low value.

Severe Weather Reports: Only the most significant events are listed. Tornadoes of F2 or greater strength (on the 0-5 Fujita scale), hail of two inches diameter or greater, and wind speeds of 70 miles per hour or above are listed. National Weather Service defines storms as severe when they produce a tornado, hail of three-quarters inch or greater, or wind speeds above 57 miles per hour ( 50 knots). For additional reports, contact the Oklahoma Climatological Survey, Storm Prediction Center, or your local National Weather Service forecast office.

Soil Moisture: The soil moisture variable displayed is the Fractional Water Index (FWI), measured at a depth of 25 cm . This unitless value ranges from very dry soil having a value of 0 , to saturated soils having a value of 1 .

## 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 Climatic Data Center (more than about 4-5 months old):
http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwEvent~Storms

## Seasonal Outlooks

Climate Prediction Center:
http://www.cpc.ncep.noaa.gov/products/OUTLOOKS index.html
Climate Calendars and other local weather and climate information
Oklahoma Climatological Survey: http://climate.ocs.ou.edu or http://www.ocs.ou.edu/
E-mail (ocs@ou.edu) or telephone (405/325-2541)

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