

# OKLAHOMA MONTHLY CLIMATE SUMMARY FEBRUARY 2003

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**Oklahoma Climatological Survey**

## MONTHLY SUMMARY FOR FEBRUARY 2003

### **February 2003**

*Statewide average temperature = 37.8° F*  
*Statewide average rainfall = 1.79 inches*

A series of winter storms spread snow across various parts of Oklahoma during February, providing for the state a month of below average temperature with near normal precipitation. Winter weather arrived with a vengeance, in stark contrast to the decidedly dull weather of January. Pleasant weather at the beginning of the month provided many with a false hope for an early spring. Those hopes were dashed quite emphatically, however, by a powerful late-month blast of record-breaking glacial weather.

According to preliminary data from the National Weather Service, the month finished as the 21<sup>st</sup> coldest and 40<sup>th</sup> wettest February since record keeping began in 1892. At 1.79 inches, 0.02 inch greater than normal, the statewide-averaged precipitation was augmented considerably by four separate snowstorms that afflicted various portions of the state. The statewide-averaged temperature finished 4.5 degrees below normal at 37.8 degrees. Bolstered by the cold February, this winter season finished as the 30<sup>th</sup>-coldest since 1893 with a statewide-averaged temperature of 38.4 degrees, 1.3 degrees below normal. Oklahoma's coldest winter occurred in 1979, with an average temperature of 32.2 degrees. Precipitation during the 2002-2003 winter finished 0.41 inches below normal with 4.85 inches (rainfall and melted snow), making it the 61<sup>st</sup> driest winter on record. Through its first two months, 2003 has been both cooler and dryer than normal. The combined January-February temperature, averaged statewide, of 37.3 degrees is 2.2 degrees lower than normal and ranks this as the 24<sup>th</sup> coldest of the 112 such periods on record. The state's two-month precipitation of 1.86 inches is 1.37 inches less than normal and ranks this as the 29<sup>th</sup> driest January-February period on record.

### **February Normals**

*Statewide average temperature = 42.3° F*  
*Statewide average rainfall = 1.77 inches*

The month started out on a high note with daily maximum temperatures in the 70s and 80s across the state. The state's high temperature for the month, 87 degrees, occurred at Altus (Jackson County) on the 2<sup>nd</sup>, setting a new statewide record high for that date. The previous high temperature for February 2<sup>nd</sup> was 86 degrees and was measured at two locations: El Reno in 1911 and Hollis in 1995. The warmth of the 2<sup>nd</sup> was short-lived, however, as a strong cold front dropped temperatures below normal and set the stage for February's first taste of wintry precipitation. A low pressure system approached the state from the west and combined with the cold air already in place to dump 2 to 4 inches of snow across an area generally north of I-40. Locally heavier amounts up to 6 inches were found in northwestern and west central Oklahoma. The snow cover encouraged substantial local cooling, leading to a reported lowest temperature of -6 degrees at Fort Supply (Woodward) on the 8<sup>th</sup>.

**(Continued on page 3.)**

A second winter storm, on the 9<sup>th</sup> and 10<sup>th</sup>, brought additional snowfall totals as great as 7 inches across the northern half of the state. Snowfall amounts were greatest in the northeast, where heavy bands of snow reportedly dropped up to 10 inches in Wagoner, Cherokee, and southern Delaware Counties. Snow fell across southwestern and central portions of the state, but rising temperatures quickly melted the snow as the afternoon progressed. Temperatures statewide rose into the 50s and 60s on the following day and ushered in a period of more seasonable weather. Strong southerly winds on the 15<sup>th</sup> produced daily average wind speeds in excess of 25 miles per hour at several stations of the Oklahoma Mesonet. The station at Minco (Grady) posted a 24-hour average wind speed of 28.5 miles per hour. Daily average wind speeds at Cheyenne (Roger Mills: 25.9), Medicine Park (Comanche: 25.2), and Weatherford (Custer: 25.0) also breached the quarter-century mark. Severe thunderstorms rumbled across the northern portions of the state on the 15<sup>th</sup>, producing strong winds, heavy rains, and 1-inch diameter hail in the Tulsa area.

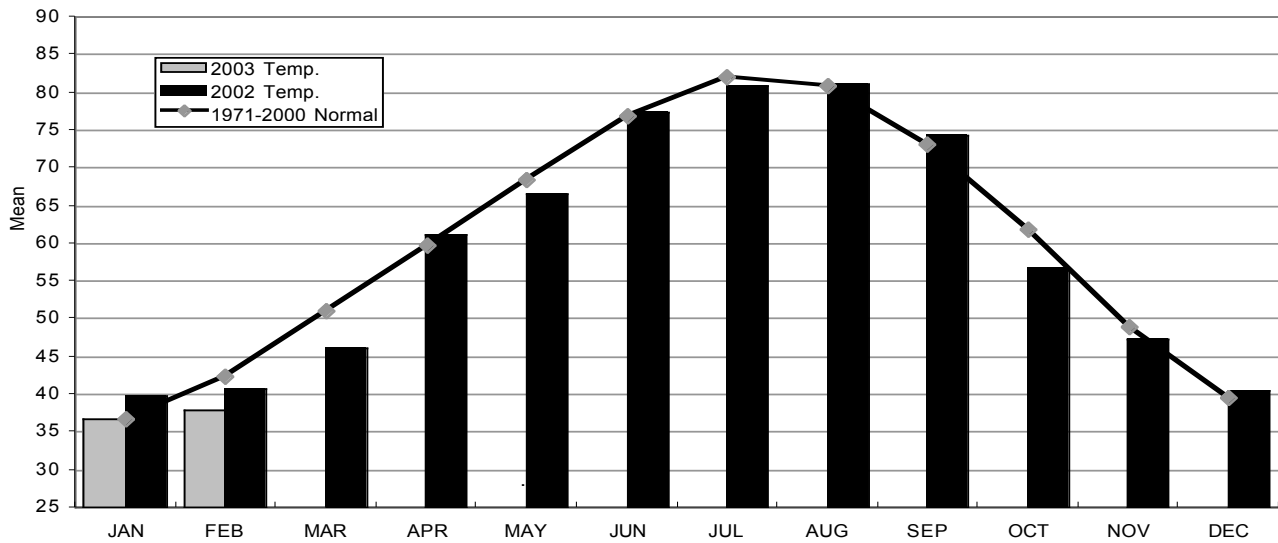
The seasonable weather came to an end on the 23<sup>rd</sup> when a large dome of arctic air plunged into the state from the north. Temperatures over parts of northern Oklahoma remained below freezing for the next five days – over 130 consecutive hours in all. The frigid air combined with a series of upper-level storms to produce significant snowfall amounts across the state. The first upper-level storm affected the state on the 23<sup>rd</sup>, covering the northern-third of the state with 6 to 10 inches of snow. Public reports from Kildare (Kay) indicated that 18 inches of snow fell there. Kay County observers in the NWS cooperative network reported storm total snowfalls of 17.5 inches each at Braman, 15.5 inches at Blackwell, and 14.6 inches at Newkirk. Wann (Nowata) and Lamont (Grant) each reported snowfall accumulations of 14 inches. Numerous accounts of 8 inches or more of snow were reported across the northern third of the state from Helena (Major) eastward. Blizzard conditions forced road closings along the Oklahoma-Kansas border as 40 mph winds drifted snow across highways. The white-out conditions contributed to a 30-car pileup along I-44 near Miami.

A second round of snow struck overnight on the 24<sup>th</sup> and affected the southern half of the state. The extreme southeastern counties received the heaviest snowfall, with totals of 6 to 8 inches being commonly reported, prompting rare school closings across the region. Clayton in Pushmataha County reportedly received 10 inches. The NWS observer at Smithville (McCurtain) reported an 8-inch snowfall.

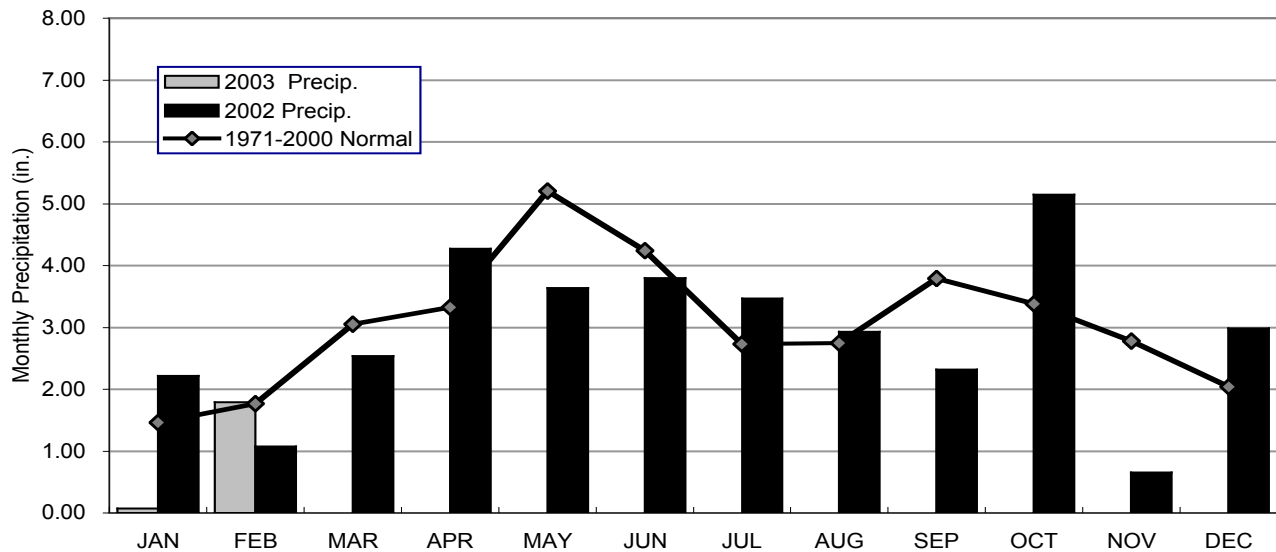
The icy weather held throughout the remainder of the month. On the 25<sup>th</sup> and 26<sup>th</sup>, another storm moved across the state and produced a light band of freezing drizzle, which was enough to cause numerous accidents on Oklahoma streets and highways. Another 4 to 5 inches of snowfall fell across parts of northwestern Oklahoma overnight on the 26<sup>th</sup>. Roads were closed in several areas of the state as they simply became too slick for travel.

Gary McManus, Howard Johnson

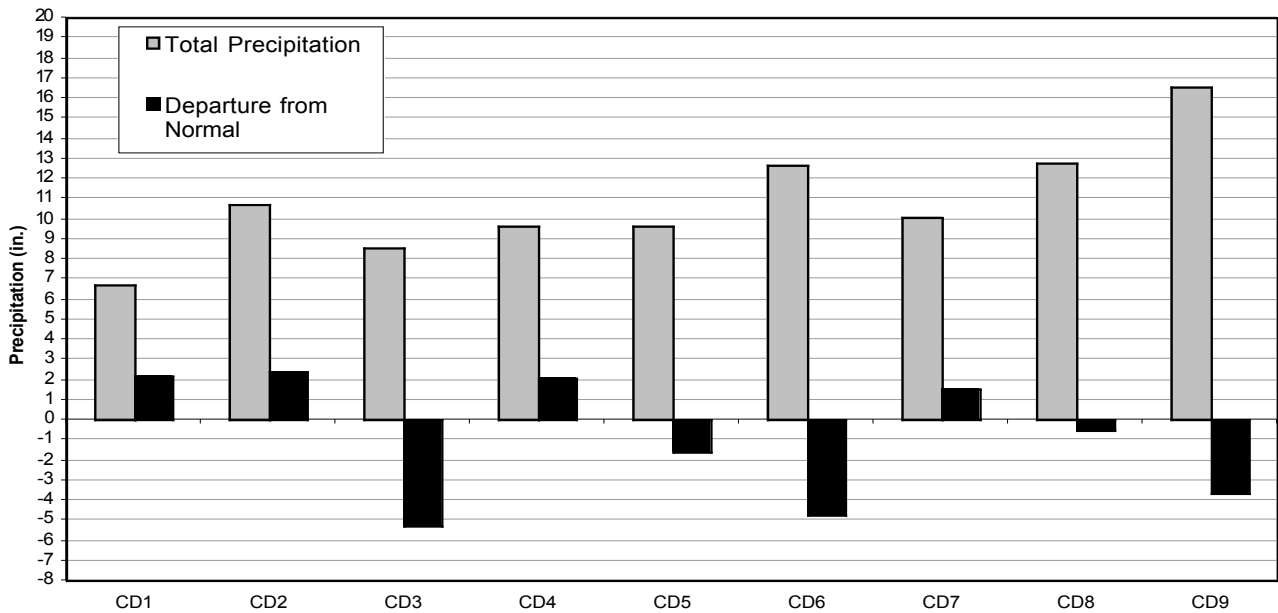
## 2002 AND 2003 STATEWIDE TEMPERATURES - MONTHLY AVERAGES



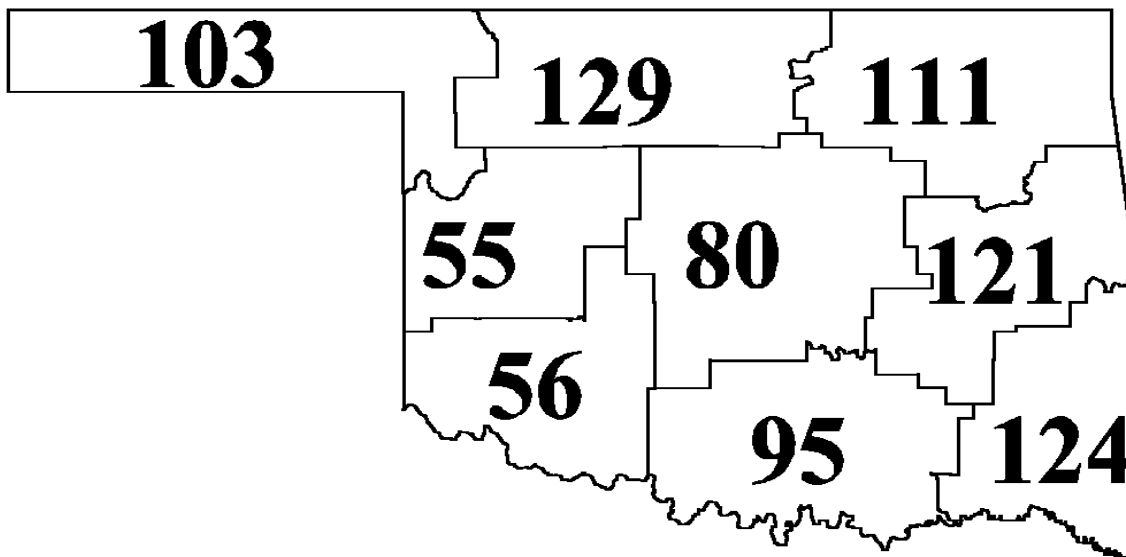
## 2002 AND 2003 STATEWIDE PRECIPITATION - MONTHLY TOTALS



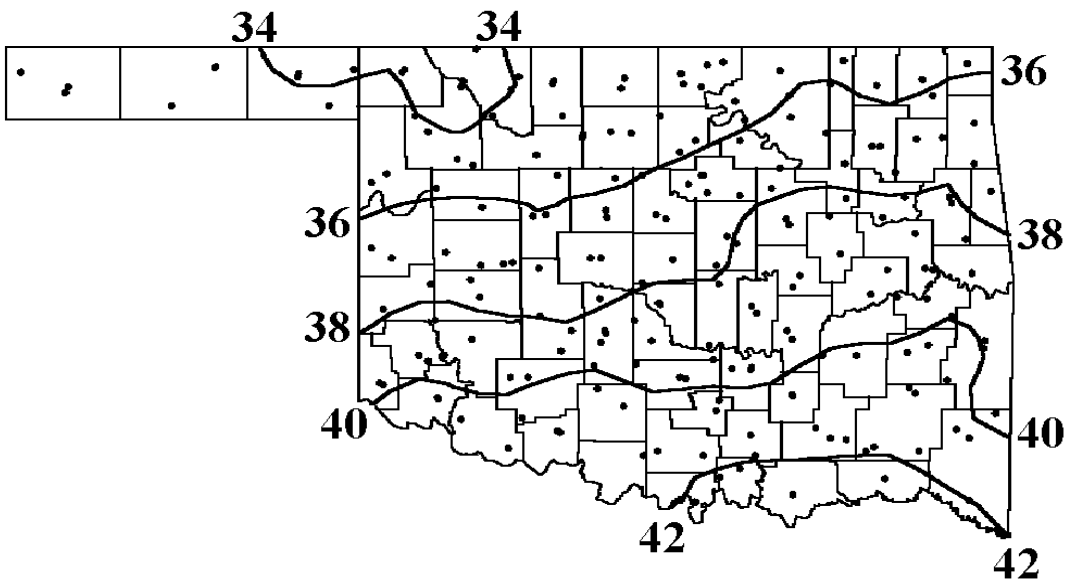
CLIMATE DIVISION AVERAGED PRECIPITATION - OCTOBER 2002 THROUGH FEBRUARY 2003



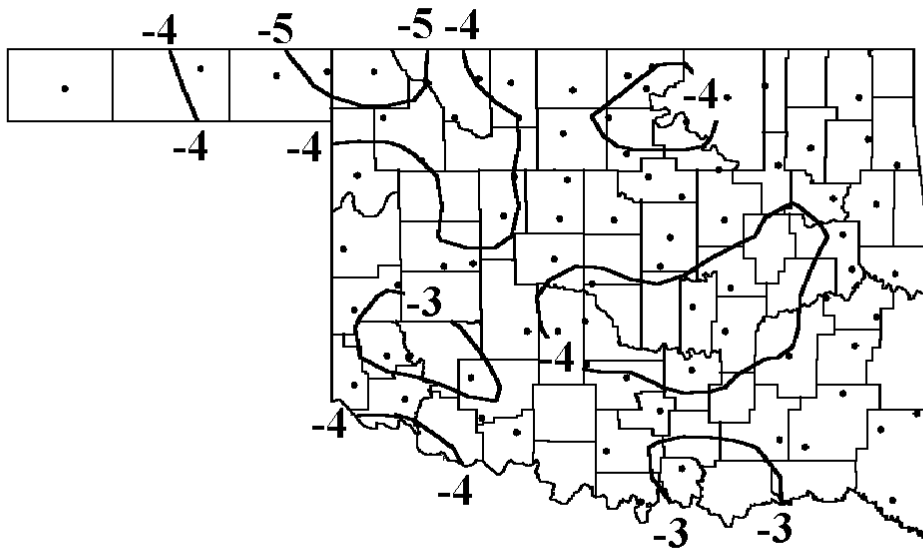
CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION - FEBRUARY 2003



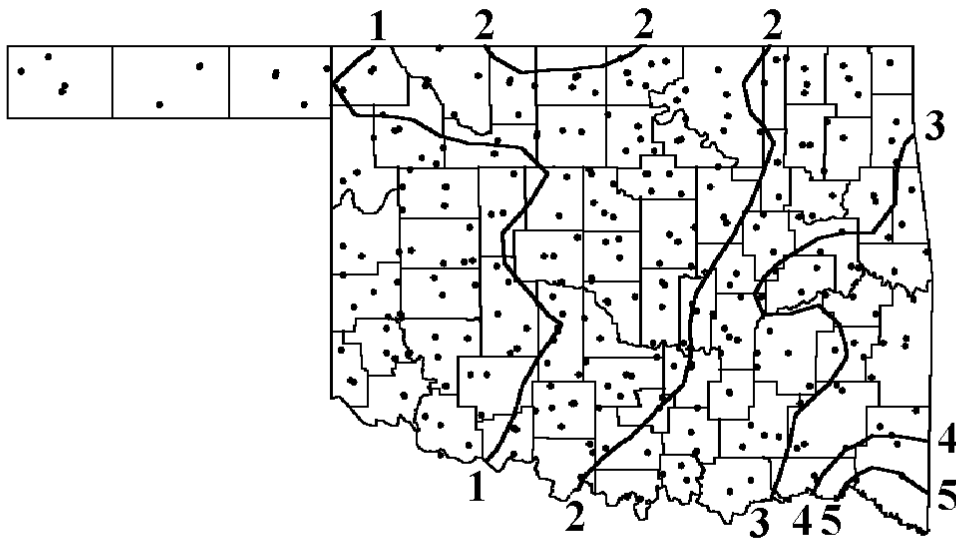
FEBRUARY 2003 AVERAGE MONTHLY TEMPERATURE (°F)



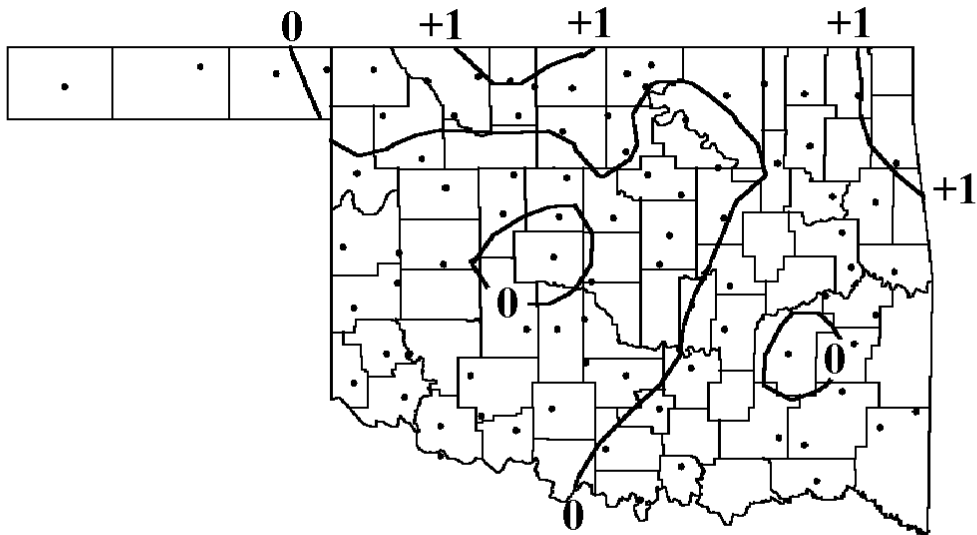
FEBRUARY 2003 DEPARTURE FROM NORMAL TEMPERATURE (°F)



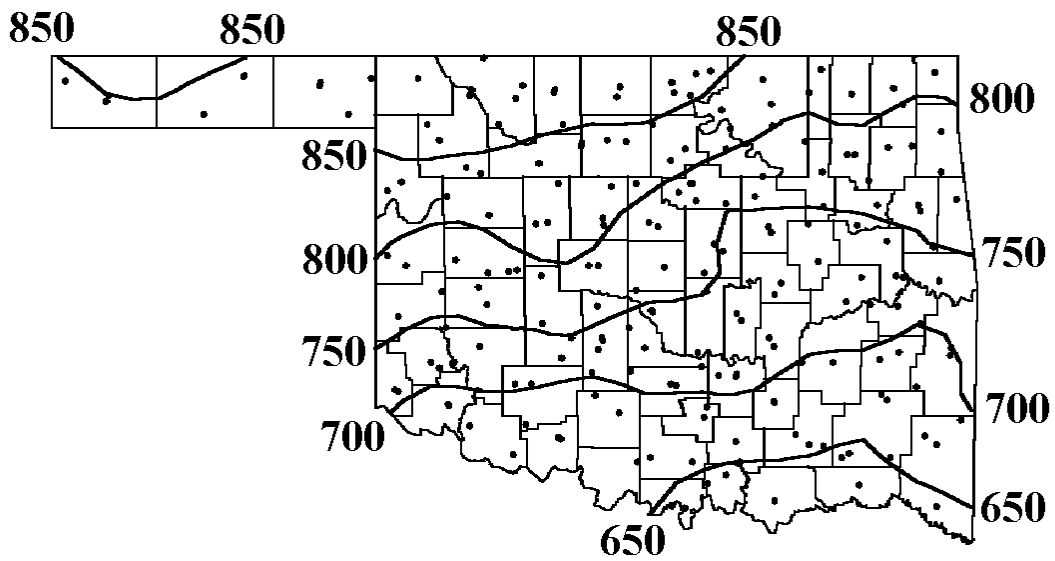
FEBRUARY 2003 PRECIPITATION (INCHES)



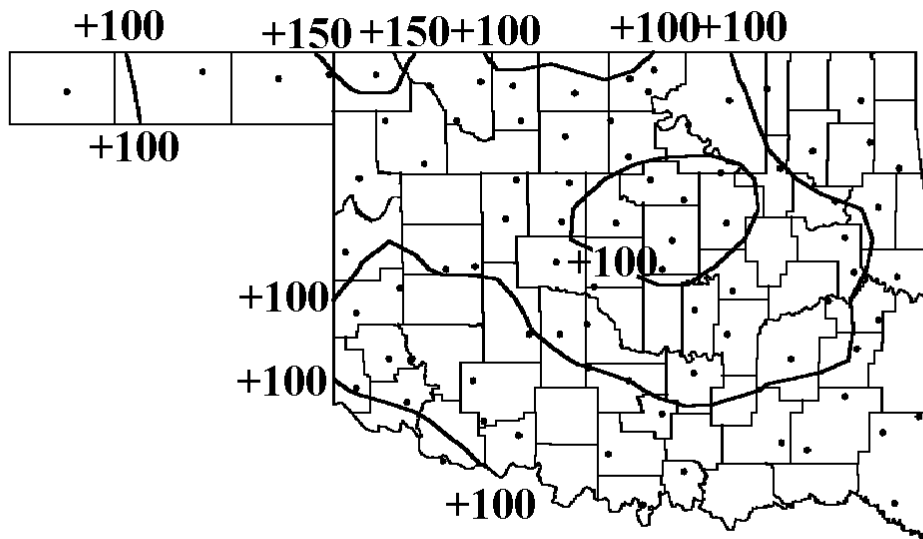
FEBRUARY 2003 DEPARTURE FROM NORMAL PRECIPITATION (INCHES)



FEBRUARY 2003 ACCUMULATED HEATING DEGREE DAYS (°F)



FEBRUARY 2003 DEPARTURE FROM NORMAL HEATING DEGREE DAYS (°F)





## FEBRUARY 2003 SUMMARY FOR PANHANDLE CLIMATE DIVISION (CD1)

| NAME       | ID   | CD | MEAN<br>TEMP | NUM<br>OBS | DEV          |             | MIN<br>DAY | TEMP<br>DAY | HEAT<br>DEG | DEV<br>FROM<br>NORM | COOL<br>DEG<br>DAY | DEV<br>FROM<br>NORM | TOT<br>PPT | NUM<br>OBS | DEV          |              | DAY  |    |
|------------|------|----|--------------|------------|--------------|-------------|------------|-------------|-------------|---------------------|--------------------|---------------------|------------|------------|--------------|--------------|------|----|
|            |      |    |              |            | FROM<br>NORM | MAX<br>TEMP |            |             |             |                     |                    |                     |            |            | FROM<br>NORM | MAX<br>24-HR |      |    |
| ARNETT     | 332  | 1  | 34.7         | 28         | -3.0         | 78          | 3          | 0           | 25          | 850                 | 85                 | 0                   | 0          | 0.991      | 28           | 0.04         | 0.27 | 27 |
| BEAVER     | 593  | 1  | 32.5         | 28         | -4.7         | 79          | 3          | 0           | 8           | 911                 | 131                | 0                   | 0          | 0.382      | 28           | -0.35        | 0.17 | 19 |
| BOISE CITY | 908  | 1  | 35.6         | 28         | -3.1         | 76          | 2          | 1           | 24          | 823                 | 85                 | 0                   | 0          | 0.154      | 28           | -0.28        | 0.12 | 28 |
| BUFFALO    | 1243 | 1  | 33.9         | 28         | -7.4         | 78          | 2          | 1           | 25          | 871                 | 199                | 0                   | -5         | 1.001      | 28           | 0.04         | 0.35 | 19 |
| FARGO      | 3070 | 1  | *****        | 0          | *****        | ****        | 0          | ****        | 0           | *****               | *****              | *****               | *****      | 0.813      | 28           | *****        | 0.37 | 27 |
| GAGE       | 3407 | 1  | 36.1         | 24         | *****        | 79          | 1          | 3           | 23          | 695                 | *****              | 0                   | *****      | 0.644      | 26           | *****        | 0.31 | 26 |
| GATE       | 3489 | 1  | 33.8         | 28         | -5.2         | 79          | 2          | 1           | 24          | 875                 | 146                | 0                   | 0          | 1.123      | 28           | 0.36         | 0.31 | 19 |
| GUYMON     | 3835 | 1  | 35.9         | 22         | *****        | 79          | 2          | 2           | 25          | 641                 | *****              | 0                   | *****      | 0.080      | 25           | *****        | 0.06 | 19 |
| HOOKER     | 4298 | 1  | 35.3         | 28         | -4.2         | 79          | 1          | 2           | 24          | 831                 | 116                | 0                   | 0          | 0.286      | 28           | -0.20        | 0.12 | 6  |
| LAVERNE    | 5045 | 1  | 36.1         | 26         | *****        | 78          | 1          | 2           | 24          | 752                 | *****              | 0                   | *****      | 1.431      | 28           | *****        | 0.30 | 19 |
| REGNIER    | 7534 | 1  | *****        | 0          | *****        | ****        | 0          | ****        | 0           | *****               | *****              | *****               | *****      | 0.183      | 28           | *****        | 0.11 | 19 |
| TURPIN     | 9017 | 1  | 33.2         | 20         | *****        | 78          | 3          | 3           | 24          | 636                 | *****              | 0                   | *****      | 0.280      | 21           | *****        | 0.18 | 19 |

## FEBRUARY 2003 SUMMARY FOR NORTH CENTRAL CLIMATE DIVISION (CD2)

| NAME         | ID   | CD | MEAN<br>TEMP | NUM<br>OBS | DEV          |             | MIN<br>DAY | TEMP<br>DAY | HEAT<br>DEG | DEV<br>FROM<br>NORM | COOL<br>DEG<br>DAY | DEV<br>FROM<br>NORM | TOT<br>PPT | NUM<br>OBS | DEV          |              | DAY  |    |
|--------------|------|----|--------------|------------|--------------|-------------|------------|-------------|-------------|---------------------|--------------------|---------------------|------------|------------|--------------|--------------|------|----|
|              |      |    |              |            | FROM<br>NORM | MAX<br>TEMP |            |             |             |                     |                    |                     |            |            | FROM<br>NORM | MAX<br>24-HR |      |    |
| ALVA         | 193  | 2  | 35.0         | 28         | -2.7         | 82          | 3          | 2           | 24          | 839                 | 71                 | 0                   | 0          | 1.720      | 28           | 0.74         | 0.55 | 23 |
| BILLINGS     | 755  | 2  | 34.2         | 28         | -4.5         | 76          | 15         | 1           | 24          | 862                 | 122                | 0                   | -2         | 1.978      | 28           | 0.44         | 0.63 | 23 |
| BLACKWELL 2E | 818  | 2  | 35.0         | 28         | -2.7         | 76          | 15         | 3           | 25          | 840                 | 70                 | 0                   | 0          | 1.736      | 28           | 0.59         | 0.54 | 23 |
| BRAMAN       | 1075 | 2  | *****        | 0          | *****        | ****        | 0          | ****        | 0           | *****               | *****              | *****               | *****      | 2.890      | 28           | *****        | 1.65 | 24 |
| CEDARDALE    | 1620 | 2  | *****        | 0          | *****        | ****        | 0          | ****        | 0           | *****               | *****              | *****               | *****      | 1.224      | 28           | *****        | 0.36 | 6  |
| CHEROKEE     | 1724 | 2  | 34.2         | 28         | -3.7         | 76          | 4          | -2          | 25          | 863                 | 104                | 0                   | 0          | 3.601      | 28           | 2.43         | 0.95 | 10 |
| ENID         | 2912 | 2  | 35.3         | 28         | -3.3         | 75          | 15         | 5           | 24          | 832                 | 89                 | 0                   | -1         | 1.222      | 28           | -0.42        | 0.45 | 23 |
| FT SUPPLY    | 3304 | 2  | 32.6         | 28         | -4.3         | 79          | 3          | -6          | 8           | 909                 | 120                | 0                   | 0          | 1.211      | 28           | 0.32         | 0.28 | 27 |
| FREEDOM      | 3358 | 2  | 33.0         | 28         | -4.9         | 83          | 2          | -2          | 24          | 895                 | 135                | 0                   | 0          | 1.580      | 28           | 0.66         | 0.50 | 22 |
| GREAT SALT P | 3740 | 2  | 34.0         | 26         | *****        | 75          | 3          | 2           | 24          | 807                 | *****              | 0                   | *****      | 1.330      | 28           | 0.22         | 0.60 | 23 |
| HELENA       | 4019 | 2  | 33.9         | 28         | -4.2         | 76          | 15         | 0           | 8           | 872                 | 118                | 0                   | 0          | 1.721      | 28           | 0.43         | 0.49 | 23 |
| JEFFERSON    | 4573 | 2  | 34.1         | 28         | -4.1         | 75          | 15         | -2          | 24          | 866                 | 114                | 0                   | 0          | 2.050      | 28           | 0.71         | 0.90 | 6  |
| LAHOMA       | 4950 | 2  | 35.8         | 28         | *****        | 75          | 15         | 3           | 25          | 817                 | *****              | 0                   | *****      | 1.220      | 28           | *****        | 0.23 | 22 |
| LAMONT       | 5013 | 2  | *****        | 0          | *****        | ****        | 0          | ****        | 0           | *****               | *****              | *****               | *****      | 1.472      | 28           | *****        | 0.32 | 24 |
| MEDFORD      | 5768 | 2  | *****        | 0          | *****        | ****        | 0          | ****        | 0           | *****               | *****              | *****               | *****      | 1.820      | 28           | *****        | 0.41 | 24 |
| MORRISON     | 6065 | 2  | *****        | 0          | *****        | ****        | 0          | ****        | 0           | *****               | *****              | *****               | *****      | 1.622      | 28           | *****        | 0.38 | 24 |
| MUTUAL       | 6139 | 2  | 34.4         | 28         | -3.5         | 82          | 3          | 0           | 25          | 857                 | 97                 | 0                   | 0          | 0.641      | 28           | -0.34        | 0.20 | 24 |
| NEWKIRK      | 6278 | 2  | 33.0         | 28         | -4.2         | 75          | 15         | 1           | 24          | 896                 | 114                | 0                   | 0          | 1.881      | 28           | 0.52         | 0.50 | 24 |
| ORIENTA      | 6751 | 2  | *****        | 0          | *****        | ****        | 0          | ****        | 0           | *****               | *****              | *****               | *****      | 1.211      | 28           | *****        | 0.34 | 24 |
| PERRY        | 7012 | 2  | 36.0         | 28         | -3.9         | 75          | 15         | 5           | 24          | 811                 | 104                | 0                   | -3         | 2.263      | 28           | 0.56         | 0.67 | 7  |
| PONCA CITY   | 7201 | 2  | 34.5         | 28         | -5.2         | 77          | 14         | 1           | 24          | 854                 | 135                | 0                   | -6         | 0.226      | 28           | -1.18        | 0.05 | 18 |
| RED ROCK     | 7505 | 2  | *****        | 0          | *****        | ****        | 0          | ****        | 0           | *****               | *****              | *****               | *****      | 1.519      | 28           | *****        | 0.53 | 23 |
| WAYNOKA      | 9404 | 2  | 33.4         | 28         | -5.8         | 84          | 2          | -2          | 24          | 886                 | 161                | 0                   | 0          | 1.141      | 28           | 0.06         | 0.36 | 22 |
| WOODWARD     | 9760 | 2  | *****        | 0          | *****        | ****        | 0          | ****        | 0           | *****               | *****              | *****               | *****      | 1.031      | 28           | *****        | 0.30 | 27 |

## FEBRUARY 2003 SUMMARY FOR NORTHEAST CLIMATE DIVISION (CD3)

| NAME         | ID   | CD | MEAN<br>TEMP | NUM<br>OBS | DEV        |              | MIN<br>DAY | MIN<br>TEMP | MIN<br>DAY | HEAT       | DEV          | COOL         | DEV          | TOT<br>PPT | NUM<br>OBS | DEV          | DEV          | DAY |
|--------------|------|----|--------------|------------|------------|--------------|------------|-------------|------------|------------|--------------|--------------|--------------|------------|------------|--------------|--------------|-----|
|              |      |    |              |            | DEG<br>DAY | FROM<br>NORM |            |             |            | DEG<br>DAY | FROM<br>NORM | FROM<br>NORM | FROM<br>NORM |            |            | FROM<br>NORM | FROM<br>NORM |     |
| BARTLESVILLE | 548  | 3  | 37.1         | 28         | -4.0       | 79           | 14         | 5           | 24         | 783        | 110          | 0            | -3           | 2.921      | 28         | 0.99         | 1.20         | 24  |
| BURBANK      | 1256 | 3  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 2.301      | 28         | *****        | 1.18         | 23  |
| CHELSEA      | 1717 | 3  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 2.250      | 28         | *****        | 0.68         | 19  |
| CLAREMORE    | 1828 | 3  | 36.3         | 28         | -3.1       | 75           | 15         | 11          | 25         | 803        | 85           | 0            | 0            | 3.126      | 28         | 0.96         | 0.94         | 15  |
| HOLLOW       | 4258 | 3  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 2.291      | 28         | *****        | 0.75         | 24  |
| HOMINY       | 4289 | 3  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 2.462      | 28         | *****        | 0.85         | 14  |
| KANSAS       | 4672 | 3  | 37.9         | 28         | -4.2       | 70           | 14         | 9           | 7          | 760        | 118          | 0            | -2           | 4.130      | 28         | 1.64         | 0.73         | 19  |
| LENAPAH      | 5118 | 3  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 1.710      | 28         | *****        | 0.53         | 19  |
| MANNFORD     | 5522 | 3  | 38.4         | 28         | -3.9       | 78           | 14         | 7           | 24         | 745        | 102          | 0            | -7           | 1.842      | 28         | -0.28        | 0.52         | 24  |
| NOWATA       | 6485 | 3  | 37.4         | 25         | *****      | 77           | 14         | 8           | 25         | 690        | *****        | 0            | *****        | 1.480      | 28         | -0.48        | 0.92         | 13  |
| PAWHUSKA     | 6935 | 3  | 37.6         | 28         | -3.1       | 78           | 15         | 5           | 25         | 767        | 83           | 0            | -4           | 1.972      | 28         | -0.12        | 0.56         | 20  |
| PAWNEE       | 6940 | 3  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 1.872      | 28         | *****        | 0.70         | 24  |
| PRYOR        | 7309 | 3  | 40.0         | 21         | *****      | 73           | 15         | 12          | 8          | 524        | *****        | 0            | *****        | 3.080      | 23         | *****        | 0.89         | 28  |
| RALSTON      | 7390 | 3  | 34.6         | 28         | -4.9       | 78           | 14         | 5           | 7          | 851        | 132          | 0            | -2           | 1.463      | 28         | -0.32        | 0.50         | 23  |
| SPAVINAW     | 8380 | 3  | 39.2         | 27         | -3.5       | 70           | 15         | 10          | 24         | 698        | 69           | 0            | -4           | 3.601      | 27         | *****        | 0.89         | 24  |
| TULSA        | 8992 | 3  | 37.7         | 28         | -4.3       | 77           | 14         | 8           | 24         | 766        | 108          | 0            | -1           | 1.763      | 28         | -0.19        | 0.68         | 23  |
| UPPER SPAV   | 9101 | 3  | 38.0         | 26         | *****      | 72           | 14         | 12          | 8          | 701        | *****        | 0            | *****        | 2.412      | 28         | *****        | 0.75         | 19  |
| VINITA       | 9203 | 3  | 37.1         | 27         | -3.2       | 71           | 14         | 7           | 24         | 754        | 62           | 0            | 0            | 3.181      | 28         | 1.13         | 0.81         | 24  |
| WAGONER      | 9247 | 3  | 39.1         | 28         | -3.9       | 74           | 14         | 13          | 7          | 726        | 103          | 0            | -7           | 1.662      | 28         | -0.61        | 0.43         | 22  |
| WANN         | 9298 | 3  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 2.682      | 28         | *****        | 1.26         | 24  |

## FEBRUARY 2003 SUMMARY FOR WEST CENTRAL CLIMATE DIVISION (CD4)

| NAME        | ID   | CD | MEAN<br>TEMP | NUM<br>OBS | DEV        |              | MIN<br>DAY | MIN<br>TEMP | MIN<br>DAY | HEAT       | DEV          | COOL         | DEV          | TOT<br>PPT | NUM<br>OBS | DEV          | DEV          | DAY |
|-------------|------|----|--------------|------------|------------|--------------|------------|-------------|------------|------------|--------------|--------------|--------------|------------|------------|--------------|--------------|-----|
|             |      |    |              |            | DEG<br>DAY | FROM<br>NORM |            |             |            | DEG<br>DAY | FROM<br>NORM | FROM<br>NORM | FROM<br>NORM |            |            | FROM<br>NORM | FROM<br>NORM |     |
| CLINTON     | 1909 | 4  | 35.9         | 28         | -4.8       | 78           | 3          | 8           | 25         | 814        | 132          | 0            | 0            | 1.333      | 28         | 0.16         | 0.86         | 14  |
| COLONY      | 2039 | 4  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 0.620      | 28         | *****        | 0.28         | 8   |
| CORDELL     | 2125 | 4  | 37.1         | 28         | *****      | 76           | 3          | 10          | 26         | 781        | *****        | 0            | *****        | 0.623      | 28         | *****        | 0.30         | 6   |
| ELK CITY    | 2849 | 4  | 37.5         | 28         | -2.3       | 80           | 3          | 6           | 25         | 771        | 65           | 0            | 0            | 0.630      | 28         | -0.57        | 0.23         | 6   |
| ERICK       | 2944 | 4  | 37.0         | 28         | -3.2       | 82           | 3          | 6           | 25         | 784        | 91           | 0            | 0            | 0.413      | 28         | -0.53        | 0.18         | 9   |
| GEARY       | 3497 | 4  | 35.7         | 25         | *****      | 75           | 14         | 7           | 24         | 733        | *****        | 0            | *****        | 1.070      | 25         | *****        | 0.23         | 5   |
| HAMMON      | 3871 | 4  | 36.6         | 25         | *****      | 82           | 3          | 6           | 26         | 711        | *****        | 0            | *****        | 0.690      | 28         | -0.30        | 0.28         | 6   |
| LEEDEY      | 5090 | 4  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 0.580      | 28         | *****        | 0.58         | 9   |
| OKEENE      | 6629 | 4  | 37.8         | 28         | -3.6       | 76           | 14         | 6           | 25         | 763        | 94           | 0            | -6           | 0.363      | 28         | -1.01        | 0.15         | 19  |
| MORAVIA     | 6035 | 4  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 0.111      | 28         | *****        | 0.06         | 9   |
| RETROP      | 7565 | 4  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 0.580      | 28         | *****        | 0.33         | 4   |
| REYDON      | 7579 | 4  | 35.9         | 28         | -4.4       | 82           | 3          | 3           | 26         | 814        | 121          | 0            | 0            | 0.370      | 28         | -0.58        | 0.17         | 6   |
| SAYRE       | 7952 | 4  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 0.430      | 28         | *****        | 0.18         | 9   |
| SWEETWATER  | 8652 | 4  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 0.450      | 28         | *****        | 0.43         | 10  |
| TALOGA      | 8708 | 4  | 32.7         | 25         | *****      | 77           | 15         | 3           | 8          | 807        | *****        | 0            | *****        | 0.443      | 28         | -0.63        | 0.26         | 7   |
| THOMAS      | 8815 | 4  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 0.830      | 28         | *****        | 0.39         | 6   |
| VICI        | 9172 | 4  | *****        | 0          | *****      | ****         | 0          | ****        | 0          | *****      | *****        | *****        | *****        | 0.845      | 28         | *****        | 0.20         | 6   |
| WATONGA     | 9364 | 4  | 34.4         | 28         | -4.8       | 74           | 3          | 3           | 8          | 857        | 135          | 0            | 0            | 1.042      | 28         | -0.37        | 0.25         | 6   |
| WEATHERFORD | 9422 | 4  | 37.5         | 28         | -3.4       | 75           | 15         | 8           | 24         | 769        | 87           | 0            | -4           | 1.020      | 28         | -0.14        | 0.48         | 6   |

## FEBRUARY 2003 SUMMARY FOR CENTRAL CLIMATE DIVISION (CD5)

| NAME          | ID   | CD | DEV       |         |           |          |     | MIN  |         | HEAT      |         | DEV       |         | COOL    |           | DEV       |      | DEV |  |
|---------------|------|----|-----------|---------|-----------|----------|-----|------|---------|-----------|---------|-----------|---------|---------|-----------|-----------|------|-----|--|
|               |      |    | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | DAY | DAY  | DEG DAY | FROM NORM | DEG DAY | FROM NORM | TOT PPT | NUM OBS | FROM NORM | MAX 24-HR | DAY  |     |  |
| AMBER         | 200  | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 0.420   | 28        | *****     | 0.33 | 22  |  |
| ARCADIA       | 288  | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.111   | 28        | *****     | 0.19 | 22  |  |
| BLANCHARD     | 830  | 5  | 38.9      | 28      | -5.2      | 80       | 3   | 11   | 24      | 732       | 138     | 0         | -9      | 1.090   | 28        | -0.68     | 0.30 | 7   |  |
| BRISTOW       | 1144 | 5  | 39.5      | 28      | -3.3      | 77       | 14  | 10   | 24      | 714       | 86      | 0         | -6      | 2.480   | 28        | 0.40      | 0.60 | 24  |  |
| CHANDLER      | 1684 | 5  | 38.1      | 27      | -3.0      | 79       | 15  | 8    | 25      | 727       | 51      | 0         | -5      | 0.630   | 28        | -1.34     | 0.60 | 10  |  |
| CHICKASHA EXP | 1750 | 5  | 40.5      | 28      | -3.8      | 78       | 2   | 11   | 24      | 687       | 99      | 1         | -6      | 1.091   | 28        | -0.70     | 0.35 | 22  |  |
| COX CITY      | 2196 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.130   | 28        | *****     | 0.55 | 22  |  |
| CRESCENT      | 2242 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.233   | 28        | *****     | 0.51 | 24  |  |
| CUSHING       | 2318 | 5  | 38.3      | 27      | -2.7      | 78       | 15  | 9    | 24      | 720       | 40      | 0         | -5      | 1.243   | 28        | -0.65     | 0.32 | 24  |  |
| EDMOND        | 2788 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.320   | 28        | *****     | 0.25 | 9   |  |
| EL RENO       | 2818 | 5  | 36.5      | 28      | -3.7      | 76       | 15  | 9    | 25      | 797       | 98      | 0         | -3      | 3.733   | 28        | 2.37      | 1.50 | 7   |  |
| GUTHRIE       | 3821 | 5  | 36.6      | 28      | -3.6      | 78       | 15  | 7    | 25      | 797       | 100     | 0         | -2      | 1.430   | 28        | -0.42     | 0.29 | 24  |  |
| HENNESSEY     | 4055 | 5  | 34.6      | 28      | -4.0      | 72       | 15  | -3   | 8       | 852       | 111     | 0         | 0       | 1.501   | 28        | 0.14      | 0.66 | 24  |  |
| INGALLS       | 4489 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.912   | 28        | *****     | 0.60 | 24  |  |
| KINGFISHER    | 4861 | 5  | 36.0      | 28      | -3.2      | 76       | 15  | 9    | 24      | 812       | 88      | 0         | -1      | 1.330   | 28        | -0.17     | 0.30 | 7   |  |
| KONAWA        | 4915 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 2.040   | 28        | *****     | 0.90 | 21  |  |
| MARSHALL      | 5589 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 0.770   | 28        | *****     | 0.38 | 24  |  |
| MEEKER        | 5779 | 5  | 36.6      | 28      | -3.1      | 77       | 15  | 10   | 25      | 797       | 89      | 0         | 0       | 1.372   | 28        | -0.61     | 0.40 | 23  |  |
| MULHALL       | 6110 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 0.770   | 28        | *****     | 0.44 | 24  |  |
| NORMAN NWS    | 6386 | 5  | 38.1      | 28      | *****     | 78       | 2   | 10   | 24      | 754       | *****   | 0         | *****   | 1.420   | 28        | *****     | 0.58 | 21  |  |
| OKEMAH        | 6638 | 5  | 40.0      | 28      | -5.2      | 76       | 14  | 12   | 25      | 700       | 134     | 0         | -11     | 2.650   | 28        | 0.55      | 0.72 | 22  |  |
| OKLAHOMA CTY  | 6661 | 5  | 37.7      | 28      | -4.6      | 76       | 14  | 9    | 24      | 764       | 116     | 0         | -1      | 0.880   | 28        | -0.68     | 0.28 | 21  |  |
| OKLAHOMA CTY  | 6659 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.040   | 28        | *****     | 0.35 | 21  |  |
| PIEDMONT      | 7068 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 0.900   | 28        | *****     | 0.17 | 9   |  |
| PRAGUE        | 7264 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.471   | 28        | *****     | 0.44 | 22  |  |
| SEMINOLE      | 8042 | 5  | 37.9      | 27      | -5.1      | 77       | 15  | 11   | 25      | 733       | 113     | 0         | -3      | 2.151   | 28        | -0.01     | 0.65 | 22  |  |
| SHAWNEE       | 8110 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.722   | 28        | *****     | 0.52 | 22  |  |
| STELLA        | 8479 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.331   | 28        | *****     | 0.55 | 22  |  |
| STILLWATER    | 8501 | 5  | 36.8      | 28      | -3.2      | 79       | 15  | 6    | 24      | 789       | 85      | 0         | -3      | 1.454   | 28        | -0.17     | 0.57 | 24  |  |
| STROUD        | 8563 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.290   | 28        | *****     | 0.33 | 24  |  |
| TECUMSEH      | 8751 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.260   | 28        | *****     | 0.66 | 22  |  |
| UNION CITY    | 9086 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.092   | 28        | *****     | 0.34 | 9   |  |
| WANETTE       | 9291 | 5  | 38.3      | 28      | *****     | 77       | 15  | 12   | 25      | 748       | *****   | 0         | *****   | 1.340   | 28        | *****     | 0.70 | 22  |  |
| WEWOKA        | 9575 | 5  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 2.250   | 28        | *****     | 0.63 | 22  |  |

## FEBRUARY 2003 SUMMARY FOR EAST CENTRAL CLIMATE DIVISION (CD6)

| NAME         | ID   | CD | DEV       |         |           |          |     | MIN  |         | HEAT      |         | DEV       |         | COOL    |           | DEV       |      | DEV |  |
|--------------|------|----|-----------|---------|-----------|----------|-----|------|---------|-----------|---------|-----------|---------|---------|-----------|-----------|------|-----|--|
|              |      |    | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | DAY | DAY  | DEG DAY | FROM NORM | DEG DAY | FROM NORM | TOT PPT | NUM OBS | FROM NORM | MAX 24-HR | DAY  |     |  |
| ASHLAND      | 364  | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.994   | 28        | *****     | 0.79 | 22  |  |
| BEGGS        | 631  | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 1.810   | 28        | *****     | 0.69 | 22  |  |
| CALVIN       | 1391 | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 2.200   | 28        | *****     | 0.80 | 22  |  |
| CHECOTAH     | 1711 | 6  | 40.2      | 28      | *****     | 75       | 14  | 14   | 24      | 698       | *****   | 2         | *****   | 3.662   | 28        | *****     | 0.90 | 22  |  |
| CLAYTON      | 1858 | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 3.190   | 28        | *****     | 0.70 | 6   |  |
| DEWAR        | 2485 | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 3.694   | 28        | *****     | 0.70 | 19  |  |
| DUSTIN       | 2690 | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 4.000   | 28        | *****     | 1.42 | 6   |  |
| HASKELL      | 3956 | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 2.030   | 28        | *****     | 0.68 | 14  |  |
| HOLDENVILLE  | 4235 | 6  | 38.6      | 28      | -3.6      | 78       | 14  | 14   | 24      | 739       | 91      | 0         | -7      | 3.102   | 28        | 1.03      | 1.05 | 21  |  |
| LAKE EUFAULA | 4975 | 6  | 38.4      | 28      | -3.4      | 72       | 15  | 13   | 25      | 746       | 91      | 0         | -3      | 2.331   | 28        | -0.09     | 0.95 | 22  |  |
| LYONS        | 5437 | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 3.110   | 28        | *****     | 0.82 | 19  |  |
| MCALESTER    | 5664 | 6  | 40.4      | 28      | -4.2      | 75       | 14  | 15   | 24      | 689       | 109     | 0         | -6      | 2.114   | 28        | -0.64     | 0.87 | 21  |  |
| MCCURTAIN    | 5693 | 6  | 41.5      | 28      | -3.9      | 73       | 14  | 15   | 7       | 659       | 99      | 0         | -9      | 4.024   | 28        | 1.22      | 1.00 | 22  |  |
| MUSKOGEE     | 6130 | 6  | 37.4      | 28      | -4.2      | 75       | 14  | 14   | 6       | 772       | 116     | 0         | -1      | 3.362   | 28        | 1.16      | 0.87 | 18  |  |
| OKTAHA       | 6678 | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 3.840   | 28        | *****     | 1.19 | 19  |  |
| SALLISAW     | 7862 | 6  | 39.1      | 28      | -3.1      | 72       | 15  | 16   | 8       | 725       | 86      | 0         | 0       | 3.160   | 28        | 0.48      | 0.96 | 22  |  |
| SCPIO        | 7979 | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 3.330   | 28        | *****     | 0.94 | 14  |  |
| SHORT        | 8170 | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 3.541   | 28        | *****     | 1.00 | 14  |  |
| TAHLEQUAH    | 8677 | 6  | 38.9      | 28      | -3.5      | 72       | 14  | 10   | 7       | 730       | 90      | 0         | -5      | 2.323   | 28        | -0.12     | 0.61 | 15  |  |
| WEBBERS FALL | 9445 | 6  | 37.8      | 28      | -4.0      | 76       | 15  | 13   | 8       | 762       | 109     | 0         | -3      | 3.450   | 28        | 0.92      | 0.88 | 22  |  |
| WETUMKA      | 9571 | 6  | *****     | 0       | *****     | ****     | 0   | **** | 0       | *****     | *****   | *****     | *****   | 2.832   | 28        | *****     | 0.84 | 22  |  |

## FEBRUARY 2003 SUMMARY FOR SOUTHWEST CLIMATE DIVISION (CD7)

| NAME        | ID   | CD | MEAN<br>TEMP | NUM<br>OBS | DEV          |             | MIN<br>TEMP | DAY  | HEAT<br>DEG | DEV<br>FROM | COOL<br>DEG | DEV<br>FROM | TOT<br>PPT | NUM<br>OBS | DEV          |              | DAY  |    |
|-------------|------|----|--------------|------------|--------------|-------------|-------------|------|-------------|-------------|-------------|-------------|------------|------------|--------------|--------------|------|----|
|             |      |    |              |            | FROM<br>NORM | MAX<br>TEMP |             |      |             |             |             |             |            |            | FROM<br>NORM | MAX<br>24-HR |      |    |
| ALTUS DAM   | 184  | 7  | 40.4         | 28         | -2.2         | 85          | 3           | 13   | 26          | 689         | 56          | 0           | -5         | 0.831      | 28           | -0.41        | 0.50 | 9  |
| ALTUS       | 179  | 7  | 38.8         | 28         | -4.2         | 87          | 2           | 12   | 26          | 735         | 118         | 0           | 0          | 0.701      | 28           | -0.49        | 0.28 | 9  |
| ANADARKO    | 224  | 7  | 36.5         | 28         | -4.2         | 78          | 3           | 11   | 25          | 797         | 115         | 0           | 0          | 0.907      | 28           | -0.62        | 0.30 | 22 |
| APACHE      | 260  | 7  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 0.610      | 28           | *****        | 0.31 | 22 |
| CHATTANOOGA | 1706 | 7  | 39.6         | 28         | -2.9         | 83          | 3           | 13   | 25          | 712         | 80          | 0           | 0          | 0.672      | 28           | -0.82        | 0.35 | 9  |
| DUNCAN 11 W | 2668 | 7  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 1.132      | 28           | *****        | 0.46 | 22 |
| FREDERICK   | 3353 | 7  | 39.9         | 26         | *****        | 84          | 2           | 12   | 24          | 652         | *****       | 0           | *****      | 1.490      | 28           | 0.07         | 0.35 | 28 |
| HOLLIS      | 4249 | 7  | 40.2         | 28         | -3.5         | 86          | 2           | 11   | 25          | 696         | 99          | 0           | 0          | 0.353      | 28           | -0.80        | 0.20 | 9  |
| LAWTON      | 5063 | 7  | 37.3         | 16         | *****        | 70          | 15          | 13   | 25          | 444         | *****       | 0           | *****      | 0.470      | 27           | *****        | 0.30 | 9  |
| LOOKEBA     | 5329 | 7  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 0.790      | 28           | *****        | 0.25 | 6  |
| MANGUM      | 5509 | 7  | 40.2         | 28         | -2.0         | 84          | 3           | 10   | 26          | 694         | 54          | 0           | 0          | 0.124      | 28           | -1.04        | 0.06 | 14 |
| RANDLETT    | 7403 | 7  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 1.093      | 28           | *****        | 0.43 | 22 |
| ROOSEVELT   | 7727 | 7  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 1.040      | 28           | *****        | 0.37 | 9  |
| SEDAN       | 8016 | 7  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 0.793      | 28           | *****        | 0.30 | 9  |
| SNYDER      | 8299 | 7  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 0.810      | 28           | *****        | 0.30 | 22 |
| VINSON      | 9212 | 7  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 0.213      | 28           | *****        | 0.16 | 6  |
| WALTERS     | 9278 | 7  | 40.7         | 28         | -2.8         | 84          | 3           | 13   | 25          | 681         | 74          | 0           | -2         | 1.180      | 28           | -0.57        | 0.50 | 22 |
| WICHITA MT  | 9629 | 7  | 39.2         | 27         | -2.3         | 82          | 3           | 6    | 24          | 697         | 38          | 0           | 0          | 0.722      | 28           | -0.89        | 0.32 | 9  |
| WILLOW      | 9668 | 7  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 0.501      | 28           | *****        | 0.23 | 6  |

## FEBRUARY 2003 SUMMARY FOR SOUTH CENTRAL CLIMATE DIVISION (CD8)

| NAME          | ID   | CD | MEAN<br>TEMP | NUM<br>OBS | DEV          |             | MIN<br>TEMP | DAY  | HEAT<br>DEG | DEV<br>FROM | COOL<br>DEG | DEV<br>FROM | TOT<br>PPT | NUM<br>OBS | DEV          |              | DAY  |    |
|---------------|------|----|--------------|------------|--------------|-------------|-------------|------|-------------|-------------|-------------|-------------|------------|------------|--------------|--------------|------|----|
|               |      |    |              |            | FROM<br>NORM | MAX<br>TEMP |             |      |             |             |             |             |            |            | FROM<br>NORM | MAX<br>24-HR |      |    |
| ADA           | 17   | 8  | 38.9         | 28         | -5.4         | 76          | 14          | 13   | 26          | 730         | 143         | 0           | -6         | 2.073      | 28           | -0.12        | 0.60 | 6  |
| ALLEN         | 147  | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 2.391      | 28           | *****        | 1.50 | 14 |
| ATOKA         | 391  | 8  | 40.7         | 28         | *****        | 76          | 15          | 15   | 25          | 681         | *****       | 0           | *****      | 3.123      | 28           | *****        | 0.75 | 22 |
| BOKCHITO      | 917  | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 2.300      | 28           | *****        | 1.07 | 22 |
| CANEY         | 1437 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 3.070      | 28           | *****        | 0.76 | 23 |
| CENTRAHOMA    | 1648 | 8  | 40.4         | 28         | *****        | 75          | 15          | 15   | 25          | 689         | *****       | 0           | *****      | 1.900      | 28           | *****        | 0.60 | 22 |
| CHICKASAW     | 1745 | 8  | 40.1         | 28         | -3.5         | 78          | 15          | 14   | 25          | 697         | 93          | 0           | -4         | 2.410      | 28           | 0.36         | 0.52 | 22 |
| COLEMAN       | 2011 | 8  | 42.8         | 19         | *****        | 75          | 14          | 16   | 6           | 422         | *****       | 0           | *****      | 2.050      | 23           | *****        | 0.65 | 14 |
| COMANCHE      | 2054 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 1.105      | 28           | *****        | 0.35 | 7  |
| DAISY         | 2354 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 3.494      | 28           | *****        | 0.95 | 6  |
| DUNCAN        | 2660 | 8  | 40.1         | 24         | *****        | 81          | 3           | 13   | 25          | 598         | *****       | 0           | *****      | 1.391      | 28           | -0.47        | 0.61 | 22 |
| ELMORE CITY   | 2872 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 1.410      | 28           | *****        | 0.65 | 22 |
| GRADY         | 3688 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 2.300      | 28           | *****        | 0.47 | 22 |
| HEALDTON      | 4001 | 8  | 41.3         | 28         | -3.2         | 80          | 3           | 14   | 26          | 665         | 85          | 0           | -3         | 2.210      | 28           | 0.15         | 0.74 | 22 |
| HENNEPIN      | 4052 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 0.910      | 28           | *****        | 0.63 | 22 |
| KETCHUM RAN   | 4780 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 1.170      | 28           | *****        | 0.53 | 22 |
| KINGSTON      | 4865 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 2.500      | 28           | *****        | 0.90 | 25 |
| LOCO          | 5247 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 1.340      | 28           | *****        | 0.58 | 22 |
| LINDSAY       | 5216 | 8  | 37.6         | 27         | -4.6         | 80          | 2           | 13   | 24          | 741         | 99          | 0           | -3         | 0.370      | 28           | -1.27        | 0.16 | 6  |
| MADILL        | 5468 | 8  | 42.7         | 28         | -1.7         | 78          | 15          | 15   | 26          | 627         | 45          | 3           | -3         | 2.640      | 28           | 0.22         | 0.60 | 22 |
| MARIETTA 5 SW | 5563 | 8  | 41.3         | 28         | -4.0         | 76          | 15          | 16   | 26          | 664         | 107         | 0           | -5         | 2.621      | 28           | 0.48         | 0.74 | 22 |
| MARLOW        | 5581 | 8  | 43.3         | 28         | *****        | 83          | 2           | 12   | 24          | 614         | *****       | 6           | *****      | 1.095      | 28           | *****        | 0.53 | 22 |
| MCGEE CREEK   | 5713 | 8  | 41.9         | 28         | -3.0         | 74          | 15          | 16   | 25          | 648         | 81          | 0           | -4         | 3.062      | 28           | 0.20         | 0.86 | 25 |
| PAULS VALLEY  | 6926 | 8  | 39.3         | 28         | -3.3         | 81          | 3           | 13   | 25          | 720         | 91          | 0           | 0          | 1.823      | 28           | -0.19        | 0.70 | 9  |
| PONTOTOC      | 7214 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 1.880      | 28           | *****        | 0.47 | 5  |
| TISHOMINGO    | 8884 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 2.510      | 28           | *****        | 0.94 | 24 |
| TUSSY         | 9032 | 8  | *****        | 0          | *****        | ****        | 0           | **** | 0           | *****       | *****       | *****       | *****      | 1.422      | 28           | *****        | 0.65 | 22 |
| WAURIKA       | 9395 | 8  | 42.7         | 28         | -4.7         | 83          | 2           | 15   | 25          | 625         | 121         | 0           | -9         | 1.020      | 28           | -0.70        | 0.40 | 21 |

## FEBRUARY 2003 SUMMARY FOR SOUTHEAST CLIMATE DIVISION (CD9)

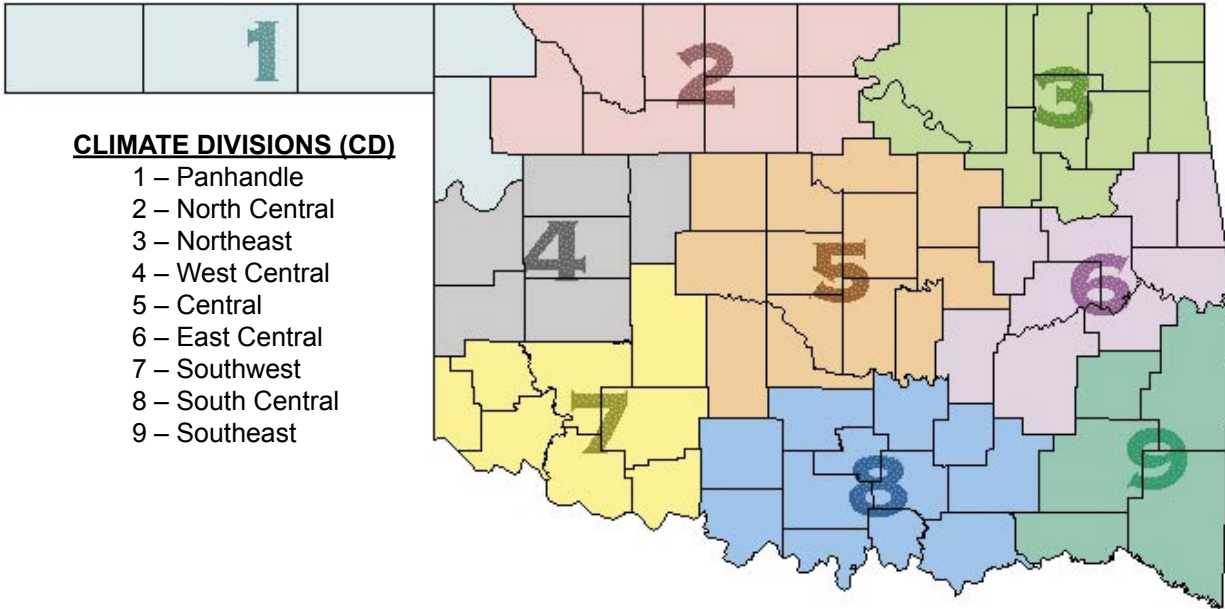
| NAME       | ID   | CD | DEV       |         |           |          |         | HEAT    |           |         | DEV       |         |         | COOL      |           |       | DEV  |    |  |
|------------|------|----|-----------|---------|-----------|----------|---------|---------|-----------|---------|-----------|---------|---------|-----------|-----------|-------|------|----|--|
|            |      |    | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | MIN DAY | DEG DAY | FROM NORM | DEG DAY | FROM NORM | TOT PPT | NUM OBS | FROM NORM | MAX 24-HR | DAY   |      |    |  |
| ANTLERS    | 256  | 9  | 42.1      | 27      | -3.4      | 72       | 15      | 17      | 8         | 619     | 67        | 0       | -4      | 2.700     | 28        | 0.17  | 0.93 | 25 |  |
| BATTIEST   | 567  | 9  | 39.0      | 28      | -3.1      | 69       | 1       | 12      | 7         | 728     | 87        | 0       | 0       | 3.907     | 28        | 0.48  | 1.08 | 13 |  |
| BENGAL     | 670  | 9  | *****     | 0       | *****     | ****     | 0       | ****    | 0         | *****   | *****     | *****   | *****   | 2.720     | 28        | ***** | 0.65 | 14 |  |
| BROKEN BOW | 1162 | 9  | *****     | 0       | *****     | ****     | 0       | ****    | 0         | *****   | *****     | *****   | *****   | 4.980     | 28        | ***** | 1.20 | 14 |  |
| CARTER TWR | 1544 | 9  | *****     | 0       | *****     | ****     | 0       | ****    | 0         | *****   | *****     | *****   | *****   | 3.900     | 28        | ***** | 0.90 | 22 |  |
| FANSHAWE   | 3065 | 9  | *****     | 0       | *****     | ****     | 0       | ****    | 0         | *****   | *****     | *****   | *****   | 5.310     | 28        | ***** | 0.97 | 10 |  |
| HUGO       | 4384 | 9  | 42.6      | 25      | *****     | 73       | 3       | 18      | 25        | 559     | *****     | 0       | *****   | 3.253     | 28        | 0.00  | 1.16 | 25 |  |
| IDABEL     | 4451 | 9  | 42.3      | 28      | -3.5      | 70       | 2       | 23      | 7         | 635     | 96        | 0       | 0       | 6.620     | 26        | ***** | 1.27 | 22 |  |
| PAGE       | 6842 | 9  | 38.7      | 25      | *****     | 69       | 15      | 12      | 8         | 659     | *****     | 0       | *****   | 1.990     | 25        | ***** | 1.04 | 13 |  |
| SMITHVILLE | 8285 | 9  | 38.6      | 27      | -2.9      | 70       | 2       | 12      | 8         | 713     | 56        | 0       | 0       | 3.231     | 28        | -0.11 | 1.30 | 14 |  |
| SPIRO      | 8416 | 9  | *****     | 0       | *****     | ****     | 0       | ****    | 0         | *****   | *****     | *****   | *****   | 3.190     | 28        | ***** | 0.97 | 14 |  |
| TUSKAHOMA  | 9023 | 9  | 42.1      | 28      | -3.6      | 72       | 14      | 14      | 8         | 640     | 95        | 0       | -4      | 3.210     | 28        | 0.38  | 0.72 | 25 |  |
| VALLIANT   | 9118 | 9  | *****     | 0       | *****     | ****     | 0       | ****    | 0         | *****   | *****     | *****   | *****   | 7.431     | 28        | ***** | 2.09 | 7  |  |
| WILBURTON  | 9634 | 9  | 40.4      | 28      | -4.1      | 72       | 14      | 13      | 8         | 688     | 110       | 0       | -3      | 2.363     | 28        | -0.42 | 0.70 | 13 |  |
| WISTER     | 9724 | 9  | 40.7      | 28      | *****     | 71       | 15      | 13      | 8         | 680     | *****     | 0       | *****   | 3.910     | 28        | ***** | 1.41 | 14 |  |

## FEBRUARY 2003 CLIMATE DIVISION SUMMARY

| NAME          | CD | DEV       |         |           |          |         | HEAT    |           |         | DEV       |         |         | COOL      |           |       | DEV  |    |  |
|---------------|----|-----------|---------|-----------|----------|---------|---------|-----------|---------|-----------|---------|---------|-----------|-----------|-------|------|----|--|
|               |    | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | MIN DAY | DEG DAY | FROM NORM | DEG DAY | FROM NORM | TOT PPT | NUM OBS | FROM NORM | MAX 24-HR | DAY   |      |    |  |
| PANHANDLE     | 1  | 34.3      | 6       | -4.2      | 79       | 1       | 0       | 8         | 860     | 116       | 0       | -1      | 0.710     | 9         | 0.02  | 0.37 | 27 |  |
| NORTH CENTRAL | 2  | 34.3      | 15      | -4.0      | 84       | 2       | -6      | 8         | 860     | 108       | 0       | -1      | 1.600     | 24        | 0.36  | 1.65 | 24 |  |
| NORTH EAST    | 3  | 37.5      | 10      | -3.7      | 79       | 14      | 5       | 7         | 765     | 93        | 0       | -3      | 2.310     | 18        | 0.22  | 1.26 | 24 |  |
| WEST CENTRAL  | 4  | 36.6      | 8       | -3.5      | 82       | 3       | 3       | 8         | 794     | 95        | 0       | -1      | 0.630     | 18        | -0.51 | 0.86 | 14 |  |
| CENTRAL       | 5  | 37.8      | 16      | -3.8      | 80       | 3       | -3      | 8         | 758     | 95        | 0       | -4      | 1.440     | 34        | -0.35 | 1.50 | 7  |  |
| EAST CENTRAL  | 6  | 39.1      | 9       | -3.6      | 78       | 14      | 10      | 7         | 724     | 95        | 0       | -4      | 3.000     | 21        | 0.52  | 1.42 | 6  |  |
| SOUTHWEST     | 7  | 39.4      | 8       | -3.3      | 87       | 2       | 6       | 24        | 712     | 86        | 0       | -2      | 0.780     | 18        | -0.62 | 0.50 | 22 |  |
| SOUTH CENTRAL | 8  | 40.8      | 12      | -3.5      | 83       | 2       | 12      | 24        | 675     | 90        | 1       | -4      | 1.980     | 27        | -0.11 | 1.50 | 14 |  |
| SOUTHEAST     | 9  | 40.8      | 7       | -3.6      | 73       | 3       | 12      | 8         | 672     | 90        | 0       | -2      | 3.850     | 13        | 0.75  | 2.09 | 7  |  |

Note: The above climate division summary contains similar information to the preceding tables but are the averages or extremes over all of the stations reporting in each climate division.

## CLIMATE DIVISION MAP



## EXPLANATION OF TABLES

The tables appearing on the preceding pages contain the following information for each station or climate division:

**Station Name:** The name of the observing site.

**Station Identification Number:** These numbers usually are assigned by the National Climatic Data Center.

**Climate Division:** See the figure above.

**Number of Temperature Observations:** These numbers are the actual number of temperature reports recorded at the station during the current month. Missing observations may result in artificially high or low mean monthly temperatures.

**Deviation from Normal:** The deviation of the observed mean monthly temperature from the monthly station normal. A positive value indicates the month was warmer than normal. A negative value indicates the month was cooler than normal. Normal monthly temperatures may be calculated by subtracting the deviation from the observed temperature.

**Maximum Daily Temperature:** The maximum daily maximum temperature observed during the current month and year and the day on which it occurred.

**Minimum Daily Temperature:** The minimum daily minimum temperature observed during the current month and year and the day on which it occurred.

**Heating Degree Days:** HDD are calculated each day of the month for which there is a temperature report and the average temperature for the day is less than 65 degrees. Daily values are summed to arrive at a monthly total. HDD are a qualitative measure of how much heat was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. See the equation to the right for the HDD calculation.

**Deviation from Normal Heating Degree Days:** The difference between the actual HDD and the normal HDD for the month. A positive value indicates higher than normal heating requirements for the month as a whole. A negative value indicates lower than normal heating requirements for the month as a whole. Normal HDD may be calculated by subtracting the deviation from observed HDD.

**Cooling Degree Days:** CDD are calculated each day of the month for which there is a temperature report and the average temperature for the day exceeds 65 degrees. Daily values are summed to give a monthly total. CDD are a proxy measure of how much cooling was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. See the equation to the right for the CDD calculation.

**Deviation from Normal Cooling Degree Days:** The difference between the actual HDD and the normal HDD for the month. A positive value indicates higher than normal cooling requirements for the month as a whole. A negative value indicates lower than normal cooling requirements for the month as a whole. Normal cooling degree days may be found by subtracting the deviation from the observed cooling degree days.

**Total Precipitation:** Often incorrectly referred to as a mean precipitation, this value is the sum of all precipitation reported during the month at a station. If snow occurred, it is to be melted and its water equivalent recorded.

**Number of Precipitation Observations:** The number of days a rain or no rain observation was reported. Missing observations frequently result in artificially low total precipitation values.

**Deviation from Normal Precipitation:** The difference between the actual rainfall and the normal rainfall for the month. A positive value indicates more rain than normal was received. A negative value indicates less than was expected rainfall was received. Normal rainfall may be calculated by subtracting the deviation from the monthly total.

**Maximum 24-Hour Report and Day:** The maximum amount of precipitation recorded during the station's 24-hour observation period for the current month and year and the day on which it was recorded.

### **Heating Degree Days Calculation**

**NumDays**

$$\sum_{i=1}^{NumDays} 65 - ((TMAX_i + TMIN_i) / 2)$$

*Where NumDays = the number of days in the month of interest (e.g., NumDays = 31 for January)*

### **Cooling Degree Days Calculation**

**NumDays**

$$\sum_{i=1}^{NumDays} ((TMAX_i + TMIN_i) / 2) - 65$$

*Where NumDays = the number of days in the month of interest (e.g., NumDays = 30 for June)*

# MESONET MONTHLY SUMMARY FOR FEBRUARY 2003

| NAME                 | MEAN MAX |      | MIN |      | TOT MAX |      |      |      | NAME | MEAN MAX |               | MIN  |      | TOT MAX |      |     |      |      |       |       |     |
|----------------------|----------|------|-----|------|---------|------|------|------|------|----------|---------------|------|------|---------|------|-----|------|------|-------|-------|-----|
|                      | 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               | 36.0     | 79   | 2   | 2    | 25      | 812  | 0    | .44  | .19  | 9        | Goodwell      | 34.3 | 80   | 1       | 3    | 24  | 860  | 0    | .21   | .10   | 18  |
| Beaver               | 33.9     | 81   | 1   | -1   | 7       | 870  | 0    | .43  | .18  | 18       | Hooker        | 34.0 | 79   | 1       | 2    | 24  | 867  | 0    | .22   | .12   | 18  |
| Boise City           | 33.4     | 76   | 1   | 2    | 24      | 885  | 0    | .22  | .07  | 28       | Kenton        | 34.2 | 75   | 1       | 3    | 24  | 863  | 0    | .21   | .07   | 7   |
| Buffalo              | 35.8     | 78   | 1   | 0    | 23      | **** | **** | .61  | .32  | 18       | Slapout       | 34.5 | 81   | 1       | 1    | 25  | 853  | 0    | .76   | .21   | 9   |
| <b>NORTH CENTRAL</b> |          |      |     |      |         |      |      |      |      |          |               |      |      |         |      |     |      |      |       |       |     |
| Blackwell            | 34.1     | 75   | 14  | 3    | 24      | 864  | 0    | .87  | .14  | 13       | Medford       | 34.3 | 74   | 14      | -3   | 24  | 859  | 0    | 1.02  | .23   | 28  |
| Breckenridge         | 34.6     | 75   | 14  | 3    | 24      | 850  | 0    | .94  | .21  | 9        | Newkirk       | 34.4 | 76   | 14      | 2    | 24  | 856  | 0    | .94   | .21   | 18  |
| Cherokee             | 34.4     | 76   | 2   | -2   | 25      | 856  | 0    | .66  | .16  | 13       | Red Rock      | 35.5 | 76   | 14      | 2    | 24  | 827  | 0    | 1.39  | .32   | 13  |
| Fairview             | 35.7     | 76   | 14  | 4    | 25      | 822  | 0    | .87  | .25  | 9        | Seiling       | 35.4 | 83   | 2       | 2    | 25  | 828  | 0    | .62   | .26   | 8   |
| Freedom              | 33.9     | 80   | 2   | 0    | 25      | 872  | 0    | .78  | .33  | 18       | Woodward      | 35.4 | 81   | 2       | -1   | 25  | 829  | 0    | .40   | .16   | 8   |
| Lahoma               | 34.5     | 74   | 14  | 3    | 25      | 855  | 0    | .68  | .18  | 9        | Alva          | 33.6 | 82   | 2       | -1   | 25  | 880  | 0    | ***** | ***** | *** |
| May Ranch            | 33.5     | 78   | 2   | -2   | 25      | 883  | 0    | .94  | .44  | 18       |               |      |      |         |      |     |      |      |       |       |     |
| <b>NORTHEAST</b>     |          |      |     |      |         |      |      |      |      |          |               |      |      |         |      |     |      |      |       |       |     |
| Bixby                | 38.1     | 75   | 14  | 12   | 24      | 752  | 0    | 2.58 | .60  | 15       | Pryor         | 36.2 | 71   | 1       | 7    | 24  | 806  | 0    | 2.32  | .73   | 13  |
| Burbank              | 35.6     | 76   | 14  | 7    | 24      | 823  | 0    | 1.65 | .45  | 13       | Skiatook      | 36.6 | 76   | 14      | 8    | 24  | 797  | 0    | 1.58  | .41   | 13  |
| Copan                | 35.3     | 76   | 14  | 6    | 24      | 831  | 0    | 1.60 | .46  | 13       | Vinita        | 35.2 | 72   | 14      | 4    | 24  | 833  | 0    | 1.85  | .56   | 13  |
| Foraker              | 34.8     | 77   | 14  | 4    | 24      | 845  | 0    | 1.42 | .37  | 13       | Wynona        | 35.7 | 80   | 14      | 6    | 24  | 821  | 0    | 1.63  | .42   | 13  |
| Jay                  | 36.9     | 71   | 14  | 9    | 7       | 788  | 0    | 2.73 | .59  | 13       | Porter        | 38.3 | 75   | 14      | 12   | 24  | 747  | 0    | 2.75  | .66   | 21  |
| Miami                | 35.8     | 72   | 2   | 7    | 25      | 816  | 0    | 2.38 | .78  | 13       | Inola         | 37.0 | 74   | 14      | 11   | 24  | 784  | 0    | 2.69  | .42   | 19  |
| Nowata               | 34.9     | 75   | 14  | 6    | 24      | 843  | 0    | 2.18 | .75  | 13       | Claremore     | 37.7 | 75   | 14      | 9    | 24  | 763  | 0    | 2.22  | .67   | 13  |
| Pawnee               | 36.6     | 79   | 14  | 7    | 24      | 794  | 0    | 1.30 | .28  | 8        |               |      |      |         |      |     |      |      |       |       |     |
| <b>WEST CENTRAL</b>  |          |      |     |      |         |      |      |      |      |          |               |      |      |         |      |     |      |      |       |       |     |
| Bessie               | 38.4     | 80   | 2   | 9    | 25      | 746  | 0    | .78  | .25  | 9        | Putnam        | 36.3 | 78   | 14      | 4    | 7   | 802  | 0    | .63   | .31   | 8   |
| Butler               | 37.9     | 82   | 2   | 7    | 25      | 758  | 0    | .66  | .30  | 6        | Retrop        | 38.7 | 82   | 2       | 9    | 25  | 737  | 0    | .59   | .26   | 6   |
| Camargo              | 35.9     | 83   | 2   | 4    | 7       | 815  | 0    | .49  | .17  | 9        | Watonga       | 35.8 | 73   | 14      | 6    | 7   | 818  | 0    | .72   | .23   | 9   |
| Cheyenne             | 37.6     | 81   | 2   | 5    | 25      | 768  | 0    | .54  | .24  | 8        | Weatherford   | 36.6 | 73   | 2       | 4    | 7   | 796  | 0    | .73   | .28   | 9   |
| Erick                | 37.7     | 81   | 2   | 7    | 25      | 766  | 0    | .45  | .21  | 9        |               |      |      |         |      |     |      |      |       |       |     |
| <b>CENTRAL</b>       |          |      |     |      |         |      |      |      |      |          |               |      |      |         |      |     |      |      |       |       |     |
| Bowlegs              | 39.2     | 77   | 14  | 13   | 24      | 723  | 0    | 2.00 | .75  | 21       | Oilton        | 36.5 | 77   | 14      | 8    | 24  | 797  | 0    | 1.08  | .24   | 6   |
| Bristow              | 37.7     | 77   | 14  | 11   | 24      | 765  | 0    | 1.84 | .38  | 21       | Okemah        | 38.9 | 76   | 14      | 13   | 24  | 731  | 0    | 2.38  | .79   | 21  |
| Chandler             | 38.5     | 77   | 14  | 10   | 24      | 743  | 0    | 1.35 | .30  | 9        | Perkins       | 37.5 | 76   | 14      | 8    | 24  | 771  | 0    | 1.04  | .18   | 8   |
| Chickasha            | 38.0     | 78   | 2   | 12   | 24      | 756  | 0    | 1.15 | .46  | 21       | Shawnee       | 38.7 | 75   | 14      | 11   | 24  | 737  | 0    | 1.49  | .46   | 21  |
| El Reno              | 36.1     | 77   | 14  | 8    | 24      | 809  | 0    | 1.05 | .27  | 8        | Spencer       | 38.2 | 76   | 2       | 8    | 24  | 752  | 0    | 1.10  | .31   | 9   |
| Guthrie              | 38.1     | 77   | 14  | 8    | 24      | 754  | 0    | 1.33 | .27  | 8        | Stillwater    | 36.5 | 79   | 14      | 7    | 24  | 799  | 0    | .95   | .26   | 6   |
| Kingfisher           | 36.8     | 76   | 14  | 9    | 24      | 789  | 0    | **** | **** | ***      | Washington    | 39.3 | 79   | 2       | 12   | 24  | 720  | 1    | 1.57  | .70   | 21  |
| Marena               | 36.9     | 79   | 14  | 6    | 24      | 785  | 0    | **** | **** | ***      | Ninnekah      | 39.0 | 79   | 2       | 12   | 24  | 728  | 0    | 1.12  | .43   | 21  |
| Marshall             | 36.0     | 76   | 14  | 6    | 24      | 813  | 0    | .88  | .15  | 8        | Acme          | 39.3 | 81   | 2       | 11   | 24  | 719  | 0    | 1.16  | .49   | 21  |
| Minco                | 37.7     | 76   | 2   | 10   | 24      | 763  | 0    | .93  | .27  | 9        | Norman        | 38.8 | 79   | 2       | 11   | 24  | 734  | 0    | 1.30  | .53   | 21  |
| <b>EAST CENTRAL</b>  |          |      |     |      |         |      |      |      |      |          |               |      |      |         |      |     |      |      |       |       |     |
| Calvin               | 39.7     | 77   | 14  | 15   | 24      | 709  | 0    | 2.18 | .75  | 21       | Stigler       | 39.1 | 74   | 14      | 15   | 8   | 726  | 0    | 3.47  | 1.11  | 21  |
| Cookson              | 37.9     | 71   | 14  | 12   | 7       | 760  | 0    | 3.34 | .73  | 21       | Stuart        | 40.2 | 75   | 14      | 14   | 7   | 693  | 0    | 2.20  | .89   | 21  |
| Eufaula              | 39.4     | 74   | 14  | 15   | 24      | 716  | 0    | 2.97 | 1.02 | 21       | Tahlequah     | 37.9 | 72   | 14      | 10   | 7   | 758  | 0    | 1.86  | .25   | 10  |
| Haskell              | ****     | ***  | *** | ***  | ***     | **** | **** | **** | **** | ***      | Webbers Falls | 39.4 | 75   | 1       | 18   | 24  | 718  | 0    | 2.63  | .56   | 13  |
| McAlester            | 40.3     | 75   | 14  | 15   | 24      | 692  | 0    | 2.66 | 1.03 | 21       | Westville     | 37.3 | 69   | 1       | 9    | 7   | 776  | 0    | 3.08  | .54   | 10  |
| Okmulgee             | 38.5     | 76   | 14  | 13   | 24      | 743  | 0    | 2.81 | .75  | 21       | Hectorville   | 39.1 | 76   | 14      | 11   | 24  | 725  | 0    | 2.01  | .44   | 21  |
| Sallisaw             | 38.8     | 73   | 14  | 13   | 8       | 733  | 0    | 3.20 | 1.11 | 21       |               |      |      |         |      |     |      |      |       |       |     |
| <b>SOUTHWEST</b>     |          |      |     |      |         |      |      |      |      |          |               |      |      |         |      |     |      |      |       |       |     |
| Altus                | 40.8     | 87   | 2   | 13   | 25      | 679  | 0    | .71  | .29  | 9        | Medicine Park | 40.5 | 82   | 2       | 11   | 25  | 686  | 0    | 1.04  | .34   | 6   |
| Fort Cobb            | 38.6     | 78   | 2   | 11   | 24      | 739  | 0    | .82  | .29  | 6        | Tipton        | 41.0 | 84   | 2       | 14   | 25  | 673  | 0    | .81   | .28   | 9   |
| Hinton               | 36.8     | 75   | 2   | 7    | 7       | 791  | 0    | .98  | .27  | 9        | Walters       | 41.4 | 84   | 2       | 14   | 24  | 663  | 1    | .85   | .40   | 21  |
| Hobart               | 38.4     | 79   | 2   | 11   | 25      | 745  | 0    | .77  | .34  | 9        | Apache        | 38.4 | 79   | 2       | 11   | 24  | 745  | 0    | 1.10  | .34   | 21  |
| Hollis               | 39.5     | 86   | 2   | 10   | 25      | 715  | 0    | .32  | .18  | 9        | Grandfield    | 41.5 | 85   | 2       | 15   | 25  | 657  | 0    | .67   | .38   | 21  |
| Mangum               | 39.4     | 86   | 2   | 10   | 25      | 718  | 0    | .57  | .23  | 9        |               |      |      |         |      |     |      |      |       |       |     |
| <b>SOUTH CENTRAL</b> |          |      |     |      |         |      |      |      |      |          |               |      |      |         |      |     |      |      |       |       |     |
| Ada                  | 39.8     | 77   | 14  | 14   | 25      | 704  | 0    | 1.89 | .57  | 21       | Pauls Valley  | 40.9 | 81   | 2       | 14   | 24  | 676  | 2    | 1.36  | .62   | 21  |
| Ardmore              | 42.1     | 77   | 14  | 15   | 25      | 645  | 3    | 2.26 | .70  | 21       | Ringling      | 41.6 | 79   | 2       | 15   | 25  | 659  | 3    | 2.25  | .75   | 21  |
| Burneyville          | 42.2     | 80   | 14  | 16   | 25      | 643  | 6    | 1.98 | .71  | 21       | Sulphur       | 40.4 | 77   | 14      | 14   | 25  | 689  | 1    | 2.16  | .79   | 21  |
| Byars                | 39.8     | 75   | 14  | 13   | 24      | 706  | 1    | 1.45 | .60  | 21       | Tishomingo    | 41.2 | 76   | 14      | 15   | 24  | 668  | 0    | 2.30  | .56   | 21  |
| Centrahoma           | 40.2     | 75   | 14  | 15   | 24      | 695  | 0    | 2.25 | .79  | 21       | Waurika       | **** | ***  | ***     | ***  | *** | **** | **** | ****  | ****  | *** |
| Durant               | 43.4     | 75   | 14  | 17   | 25      | 607  | 2    | 2.73 | .73  | 21       | Vanoss        | 39.7 | 78   | 14      | 13   | 24  | 709  | 1    | 1.91  | .78   | 21  |
| Ketchum Ranch        | 40.7     | 82   | 2   | 13   | 24      | 683  | 2    | 1.58 | .82  | 21       | Bee           | 41.8 | 73   | 14      | 15   | 25  | 649  | 0    | 2.68  | .67   | 21  |
| Lane                 | 41.6     | 74   | 2   | 16   | 25      | 656  | 0    | 2.86 | .95  | 21       | Newport       | 42.2 | 79   | 14      | 15   | 25  | 643  | 4    | 1.92  | .64   | 21  |
| Madill               | 42.6     | 76   | 14  | 15   | 25      | 630  | 3    | 2.74 | .75  | 21       |               |      |      |         |      |     |      |      |       |       |     |
| <b>SOUTHEAST</b>     |          |      |     |      |         |      |      |      |      |          |               |      |      |         |      |     |      |      |       |       |     |
| Antlers              | 41.3     | 74   | 2   | 14   | 8       | 663  | 0    | 2.80 | .68  | 27       | Mt Herman     | 41.1 | 69   | 1       | 16   | 8   | 670  | 0    | 4.10  | .79   | 13  |
| Clayton              | 41.1     | 74   | 14  | 15   | 8       | 670  | 0    | 2.90 | .69  | 13       | Talihina      | 40.7 | 72   | 14      | 14   | 8   | 679  | 0    | 3.03  | .76   | 13  |
| Cloudy               | 41.6     | 71   | 2   | 16   | 8       | 656  | 0    | 3.37 | .72  | 21       | Wilburton     | 39.8 | 74   | 14      | 13   | 8   | 704  | 0    | 2.67  | .92   | 21  |
| Hugo                 | 42.9     | 72   | 2   | 18   | 25      | 620  | 0    | 3.20 | .82  | 27       | Wister        | 39.5 | 73   | 14      | 12   | 8   | 715  | 0    | 3.35  | 1.01  | 13  |
| Idabel               | ****     | ***  | *** | ***  | ***     | **** | **** | **** | **** | ***      |               |      |      |         |      |     |      |      |       |       |     |



**EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION  
FEBRUARY 2003**

| CD | MAX<br>TEMP | DATE | LOCATION     | MIN<br>TEMP | DATE | LOCATION     | 24-HOUR<br>PRECIP | DATE | LOCATION  | MONTHLY<br>PRECIP | LOCATION  |
|----|-------------|------|--------------|-------------|------|--------------|-------------------|------|-----------|-------------------|-----------|
| 1  | 79          | 3    | BEAVER       | 0           | 25   | ARNETT       | .37               | 27   | FARGO     | 1.43              | LAVERNE   |
|    | 79          | 1    | GAGE         | 0           | 8    | BEAVER       |                   |      |           |                   |           |
|    | 79          | 2    | GATE         |             |      |              |                   |      |           |                   |           |
|    | 79          | 2    | GUYMON       |             |      |              |                   |      |           |                   |           |
|    | 79          | 1    | HOOKER       |             |      |              |                   |      |           |                   |           |
| 2  | 84          | 2    | WAYNOKA      | -6          | 7    | FT SUPPLY    | 1.65              | 24   | BRAMAN    | 3.60              | CHEROKEE  |
|    |             |      |              | -6          | 8    | FT SUPPLY    |                   |      |           |                   |           |
| 3  | 79          | 14   | BARTLESVILLE | 5           | 24   | BARTLESVILLE | 1.26              | 24   | WANN      | 4.13              | KANSAS    |
|    |             |      |              | 5           | 25   | PAWHUSKA     |                   |      |           |                   |           |
|    |             |      |              | 5           | 7    | RALSTON      |                   |      |           |                   |           |
| 4  | 82          | 3    | ERICK        | 3           | 25   | REYDON       | .86               | 14   | CLINTON   | 1.33              | CLINTON   |
|    |             |      |              | 3           | 26   | REYDON       |                   |      |           |                   |           |
|    |             |      |              | 3           | 8    | TALOGA       |                   |      |           |                   |           |
|    |             |      |              | 3           | 7    | WATONGA      |                   |      |           |                   |           |
| 5  | 80          | 3    | BLANCHARD    | -3          | 8    | HENNESSEY    | 1.50              | 7    | EL RENO   | 3.73              | EL RENO   |
|    |             |      |              |             |      |              |                   |      |           |                   |           |
| 6  | 78          | 14   | HOLDENVILLE  | 10          | 7    | TAHLEQUAH    | 1.42              | 6    | DUSTIN    | 4.02              | MCCURTAIN |
| 7  | 87          | 2    | ALTUS        | 6           | 24   | WICHITA MT   | .50               | 9    | ALTUS DAM | 1.49              | FREDERICK |
|    |             |      |              |             |      |              |                   | 22   | WALTERS   |                   |           |
| 8  | 83          | 2    | MARLOW       | 12          | 24   | MARLOW       | 1.50              | 14   | ALLEN     | 3.49              | DAISY     |
|    | 83          | 2    | WAURIKA      |             |      |              |                   |      |           |                   |           |
| 9  | 73          | 3    | HUGO         | 12          | 7    | BATTIEST     | 2.09              | 7    | VALLIANT  | 7.43              | VALLIANT  |
|    |             |      |              | 12          | 8    | PAGE         |                   |      |           |                   |           |
|    |             |      |              | 12          | 8    | SMITHVILLE   |                   |      |           |                   |           |

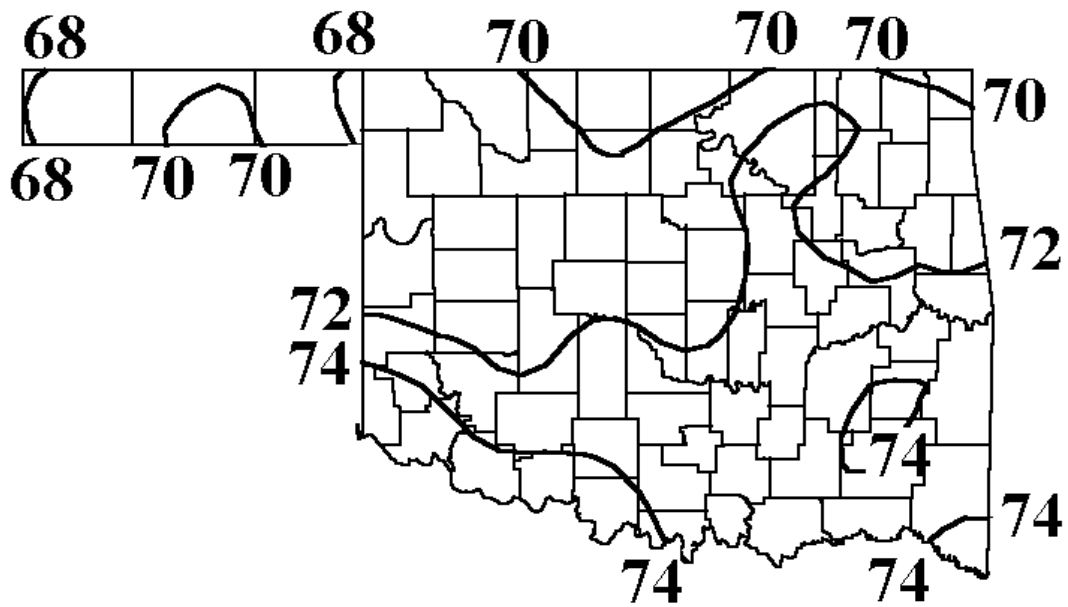
**TABLE OF 2002/2003 COMPARISONS**

| Station           | FEBRUARY<br>Temperature ( F ) |      | FEBRUARY<br>Precipitation ( in. ) |      |
|-------------------|-------------------------------|------|-----------------------------------|------|
|                   | 2002                          | 2003 | 2002                              | 2003 |
| Arnett            | 37.6                          | 34.7 | 0.72                              | 0.99 |
| Enid              | 41.0                          | 35.3 | 0.68                              | 1.22 |
| Tulsa             | 42.1                          | 37.7 | 0.90                              | 1.76 |
| Elk City          | 40.5                          | 37.5 | 0.73                              | 0.63 |
| Oklahoma City     | 41.1                          | 37.7 | 0.47                              | 0.88 |
| McAlester         | 41.7                          | 40.4 | 1.28                              | 2.11 |
| Altus Irr Station | 42.0                          | 38.8 | 0.56                              | 0.70 |
| Ardmore           | 44.3                          | ***  | 0.75                              | ***  |
| Idabel            | 42.7                          | 42.3 | 2.17                              | 6.62 |

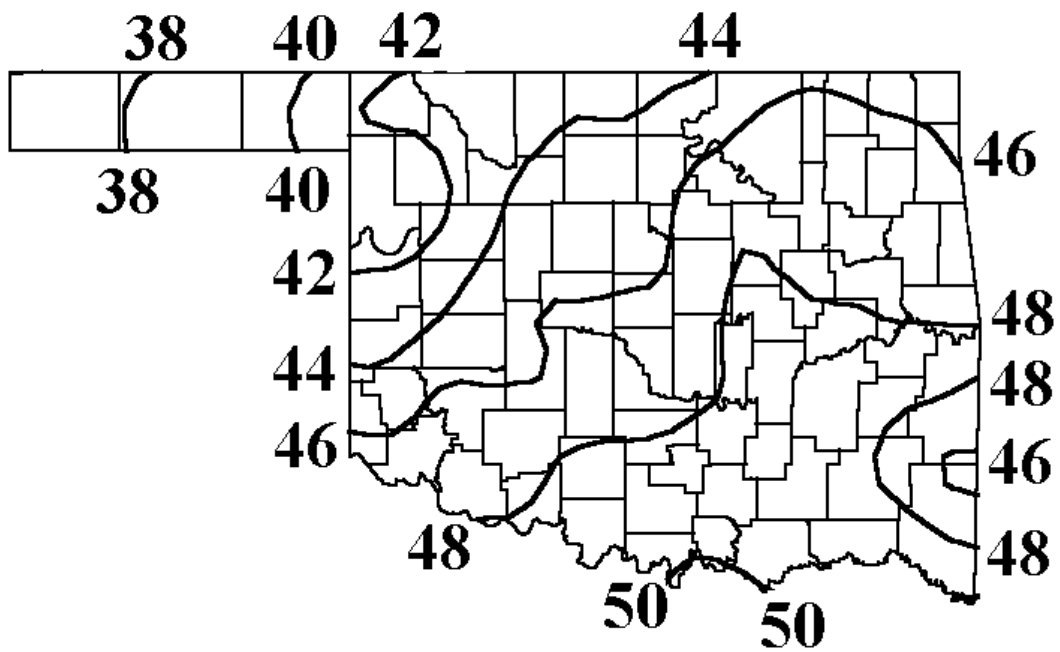
**FEBRUARY 2003 STATEWIDE EXTREMES**

| VARIABLE                         | STATION    | DIVISION | OBSERVATION | DATE  |
|----------------------------------|------------|----------|-------------|-------|
| Minimum temperature ( F )        | FT. SUPPLY | 2        | -6          | 7 & 8 |
| Maximum temperature ( F )        | ALTUS      | 7        | 87          | 2     |
| Maximum 24-hour<br>Precipitation | VALLIANT   | 7        | 2.09        | 7     |

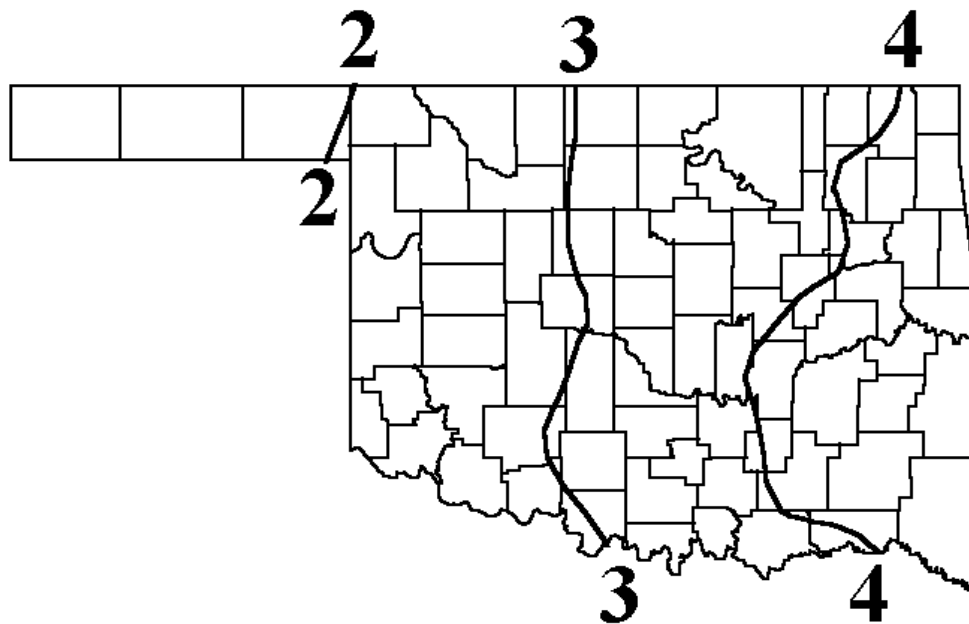
APRIL NORMAL DAILY MAXIMUM TEMPERATURE (°F)



APRIL NORMAL DAILY MINIMUM TEMPERATURE (°F)



## APRIL NORMAL MONTHLY PRECIPITATION (INCHES)



## APRIL TORNADO STATISTICS

The most tornadoes reported in **APRIL** for Oklahoma was **(40)** in **1957**.

The average number of tornadoes in **APRIL** for Oklahoma is **(10.8)**.

## OUTLOOK FOR APRIL 2003 THROUGH JUNE 2003

BASED ON SEASONAL OUTLOOK PROVIDED BY THE CLIMATE PREDICTION CENTER

**Temperature: Near Normal Temperature Statewide**

**Precipitation: Near Normal Precipitation Statewide**

**OKLAHOMA CITY CLIMATE CALENDAR**

**APRIL**

The data on this calendar are for Oklahoma City, Oklahoma.  
 Normal values are calculated for the period 1961-1990.  
 Temperature extremes are for the period 1905-2001.  
 Precipitation extremes are for the period 1888-2001.

| Day          | Avg. Temp.  | Ave. High   | 2003 | Record High | Year        | Lowest Max | Year        | Ave. Low    | 2003 | Highest Min. | Year        | Record Low | Year        | Avg. Precip. | 2003 | Greatest Precip. | Year        |
|--------------|-------------|-------------|------|-------------|-------------|------------|-------------|-------------|------|--------------|-------------|------------|-------------|--------------|------|------------------|-------------|
| 1            | 56          | 68          |      | 92          | 1946        | 45         | 1938        | 44          |      | 68           | 1946        | 26         | 1899        | 0.08         |      | 2.87             | 1905        |
| 2            | 56          | 68          |      | 88          | 1918        | 43         | 1975        | 44          |      | 67           | 1946        | 20         | 1936        | 0.08         |      | 0.99             | 1922        |
| 3            | 57          | 68          |      | 92          | 1893        | 43         | 1979        | 45          |      | 66           | 1934        | 21         | 1975        | 0.08         |      | 1.37             | 1919        |
| 4            | 57          | 69          |      | 93          | 1893        | 38         | 1920        | 45          |      | 68           | 1929        | 22         | 1891        | 0.08         |      | 2.06             | 1906        |
| 5            | 57          | 69          |      | 94          | 1893        | 43         | 1899        | 45          |      | 65           | 1978        | 26         | 1970        | 0.08         |      | 3.39             | 1953        |
| 6            | 58          | 69          |      | 95          | 1893        | 41         | 1899        | 46          |      | 68           | 1967        | 26         | 1936        | 0.08         |      | 1.24             | 1940        |
| 7            | 58          | 70          |      | 94          | 1893        | 38         | 1938        | 46          |      | 68           | 1893        | 27         | 1938        | 0.08         |      | 1.76             | 1942        |
| 8            | 58          | 70          |      | 88          | 1905        | 36         | 1938        | 47          |      | 63           | 1999        | 28         | 1938        | 0.08         |      | 2.99             | 1922        |
| 9            | 59          | 70          |      | 90          | 1930        | 44         | 1973        | 47          |      | 66           | 1927        | 25         | 1914        | 0.08         |      | 2.91             | 1944        |
| 10           | 59          | 71          |      | 91          | 1934        | 45         | 1958        | 47          |      | 66           | 1965        | 28         | 1973        | 0.08         |      | 1.40             | 1979        |
| 11           | 59          | 71          |      | 90          | 1972        | 47         | 1952        | 47          |      | 66           | 1972        | 29         | 1940        | 0.08         |      | 1.14             | 1997        |
| 12           | 59          | 71          |      | 100         | 1972        | 35         | 1957        | 48          |      | 70           | 1972        | 23         | 1957        | 0.08         |      | 3.11             | 1967        |
| 13           | 60          | 71          |      | 94          | 1972        | 43         | 1957        | 48          |      | 65           | 1941        | 20         | 1957        | 0.08         |      | 3.75             | 1910        |
| 14           | 60          | 72          |      | 92          | 1936        | 46         | 1928        | 48          |      | 68           | 1972        | 27         | 1980        | 0.08         |      | 1.27             | 1947        |
| 15           | 60          | 72          |      | 90          | 1940        | 51         | 1902        | 49          |      | 66           | 1982        | 30         | 1928        | 0.08         |      | 1.67             | 1947        |
| 16           | 61          | 72          |      | 92          | 1940        | 49         | 1905        | 49          |      | 67           | 1896        | 31         | 1921        | 0.09         |      | 1.08             | 1970        |
| 17           | 61          | 72          |      | 92          | 1987        | 47         | 1905        | 49          |      | 67           | 1963        | 30         | 1953        | 0.09         |      | 1.40             | 1908        |
| 18           | 61          | 73          |      | 96          | 1925        | 47         | 1953        | 50          |      | 66           | 1964        | 30         | 1953        | 0.09         |      | 2.97             | 1942        |
| 19           | 62          | 73          |      | 94          | 1987        | 50         | 1918        | 50          |      | 68           | 1948        | 33         | 1953        | 0.09         |      | 2.92             | 1919        |
| 20           | 62          | 73          |      | 91          | 1961        | 43         | 1918        | 50          |      | 69           | 1985        | 33         | 1966        | 0.09         |      | 2.07             | 1937        |
| 21           | 62          | 74          |      | 90          | 1965        | 45         | 1959        | 51          |      | 70           | 1961        | 34         | 1966        | 0.10         |      | 1.39             | 1996        |
| 22           | 62          | 74          |      | 95          | 1955        | 45         | 1909        | 51          |      | 69           | 1961        | 34         | 1959        | 0.10         |      | 1.98             | 1915        |
| 23           | 63          | 74          |      | 89          | 1989        | 52         | 1931        | 51          |      | 70           | 1989        | 33         | 1909        | 0.10         |      | 0.96             | 1945        |
| 24           | 63          | 74          |      | 89          | 1901        | 52         | 1947        | 52          |      | 68           | 1989        | 35         | 1995        | 0.11         |      | 1.67             | 1948        |
| 25           | 63          | 74          |      | 91          | 1939        | 51         | 1997        | 52          |      | 66           | 1893        | 35         | 1910        | 0.11         |      | 3.79             | 1999        |
| 26           | 63          | 75          |      | 92          | 1896        | 50         | 1919        | 52          |      | 68           | 1975        | 35         | 1907        | 0.11         |      | 2.77             | 1998        |
| 27           | 64          | 75          |      | 91          | 1959        | 57         | 1979        | 52          |      | 69           | 1970        | 35         | 1920        | 0.12         |      | 1.57             | 1897        |
| 28           | 64          | 75          |      | 93          | 1902        | 50         | 1922        | 53          |      | 70           | 1970        | 37         | 1979        | 0.12         |      | 1.97             | 1960        |
| 29           | 64          | 75          |      | 92          | 1936        | 50         | 1994        | 53          |      | 68           | 1933        | 34         | 1908        | 0.12         |      | 2.87             | 1974        |
| 30           | 64          | 75          |      | 93          | 1948        | 48         | 1994        | 53          |      | 68           | 1936        | 32         | 1907        | 0.13         |      | 3.45             | 2000        |
| <b>MONTH</b> | <b>60.4</b> | <b>71.9</b> |      | <b>100</b>  | <b>1972</b> | <b>35</b>  | <b>1957</b> | <b>48.8</b> |      | <b>70</b>    | <b>1889</b> | <b>20</b>  | <b>1957</b> | <b>2.77</b>  |      | <b>3.75</b>      | <b>1910</b> |

DATA COURTESY OF NATIONAL WEATHER SERVICE – NORMAN  
 Temperatures are in degrees Fahrenheit; precipitation is in inches.

**TULSA CLIMATE CALENDAR**

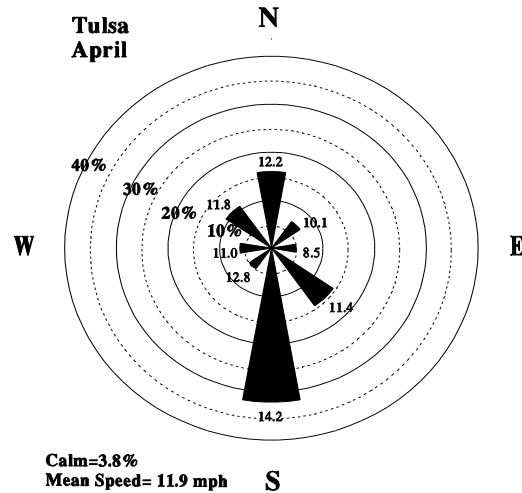
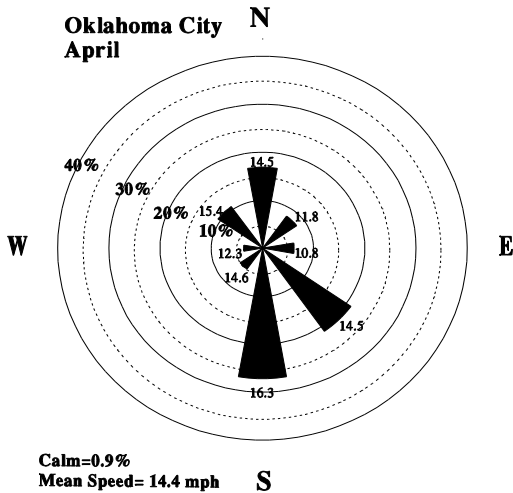
**APRIL**

The data on this calendar are for Tulsa, Oklahoma.  
 Normal values are calculated for the period 1971-2000.  
 Temperature extremes are for the period 1905-2001.  
 Precipitation extremes are for the period 1888-2001.

| Day          | Avg. Temp.  | Ave. High | Record High | Lowest Max | Year        | Ave. Low    | 2003 | Highest Min. | Year        | Record Low | Year        | Avg. Precip. | 2003 | Greatest Precip. | Year        |
|--------------|-------------|-----------|-------------|------------|-------------|-------------|------|--------------|-------------|------------|-------------|--------------|------|------------------|-------------|
| 1            | 57          | 69        | 94          | 44         | 1946        | 45          |      | 69           | 1946        | 28         | 1972        | 0.12         |      | 1.60             | 1888        |
| 2            | 57          | 69        | 89          | 41         | 1918        | 45          |      | 69           | 1946        | 22         | 1936        | 0.11         |      | 0.89             | 1916        |
| 3            | 58          | 69        | 88          | 46         | 1965        | 46          |      | 69           | 1981        | 23         | 1975        | 0.11         |      | 1.25             | 1978        |
| 4            | 58          | 70        | 90          | 46         | 1943        | 46          |      | 68           | 1929        | 27         | 1972        | 0.11         |      | 4.40             | 1964        |
| 5            | 58          | 70        | 88          | 47         | 2000        | 46          |      | 68           | 2001        | 22         | 1920        | 0.11         |      | 2.54             | 1933        |
| 6            | 59          | 70        | 92          | 43         | 1960        | 47          |      | 72           | 2001        | 29         | 1996        | 0.11         |      | 1.40             | 1940        |
| 7            | 59          | 71        | 88          | 46         | 1949        | 47          |      | 68           | 2001        | 28         | 1939        | 0.11         |      | 1.47             | 1975        |
| 8            | 59          | 71        | 88          | 37         | 1965        | 48          |      | 66           | 2001        | 29         | 1938        | 0.11         |      | 2.33             | 1913        |
| 9            | 60          | 71        | 90          | 43         | 1930        | 48          |      | 69           | 2001        | 24         | 1914        | 0.11         |      | 1.78             | 1925        |
| 10           | 60          | 72        | 92          | 47         | 1927        | 48          |      | 71           | 2001        | 31         | 1973        | 0.11         |      | 2.72             | 1908        |
| 11           | 60          | 72        | 93          | 46         | 1972        | 49          |      | 68           | 1972        | 30         | 1940        | 0.11         |      | 1.73             | 1901        |
| 12           | 61          | 72        | 102         | 36         | 1972        | 49          |      | 68           | 1981        | 26         | 1957        | 0.12         |      | 2.88             | 1945        |
| 13           | 61          | 73        | 96          | 45         | 1936        | 49          |      | 69           | 1972        | 22         | 1957        | 0.12         |      | 1.69             | 1945        |
| 14           | 61          | 73        | 94          | 47         | 1936        | 50          |      | 71           | 1936        | 31         | 1957        | 0.12         |      | 2.55             | 1929        |
| 15           | 62          | 73        | 93          | 53         | 1936        | 50          |      | 68           | 1982        | 27         | 1928        | 0.12         |      | 2.51             | 1941        |
| 16           | 62          | 73        | 93          | 49         | 1982        | 50          |      | 72           | 1963        | 31         | 1953        | 0.12         |      | 1.38             | 1968        |
| 17           | 62          | 74        | 92          | 56         | 1987        | 51          |      | 70           | 1963        | 28         | 1921        | 0.12         |      | 1.75             | 1953        |
| 18           | 62          | 74        | 98          | 48         | 1925        | 51          |      | 70           | 1963        | 29         | 1953        | 0.12         |      | 2.61             | 1941        |
| 19           | 63          | 74        | 94          | 45         | 1987        | 51          |      | 70           | 1964        | 34         | 1953        | 0.13         |      | 2.52             | 1917        |
| 20           | 63          | 74        | 92          | 41         | 1963        | 51          |      | 71           | 1964        | 32         | 1953        | 0.13         |      | 3.30             | 1929        |
| 21           | 63          | 75        | 94          | 49         | 1965        | 52          |      | 71           | 1961        | 32         | 1966        | 0.13         |      | 2.54             | 1928        |
| 22           | 64          | 75        | 91          | 49         | 1965        | 52          |      | 69           | 1961        | 32         | 1931        | 0.13         |      | 1.39             | 1985        |
| 23           | 64          | 75        | 93          | 56         | 1958        | 52          |      | 70           | 1925        | 32         | 1909        | 0.13         |      | 3.22             | 1953        |
| 24           | 64          | 75        | 91          | 46         | 1975        | 53          |      | 71           | 1989        | 37         | 1909        | 0.14         |      | 1.67             | 1947        |
| 25           | 64          | 76        | 89          | 49         | 1939        | 53          |      | 68           | 1989        | 36         | 1910        | 0.14         |      | 2.76             | 1999        |
| 26           | 64          | 76        | 91          | 48         | 1987        | 53          |      | 70           | 1975        | 35         | 1910        | 0.14         |      | 2.09             | 1915        |
| 27           | 65          | 76        | 92          | 57         | 1966        | 53          |      | 70           | 1989        | 36         | 1920        | 0.14         |      | 2.33             | 1998        |
| 28           | 65          | 76        | 88          | 53         | 1970        | 54          |      | 71           | 1970        | 37         | 1965        | 0.15         |      | 3.04             | 1912        |
| 29           | 65          | 76        | 92          | 49         | 1987        | 54          |      | 68           | 1942        | 38         | 1969        | 0.15         |      | 1.99             | 1994        |
| 30           | 65          | 76        | 91          | 50         | 1987        | 54          |      | 71           | 1936        | 35         | 1908        | 0.15         |      | 3.00             | 1970        |
| <b>MONTH</b> | <b>61.5</b> | <b>73</b> | <b>102</b>  | <b>36</b>  | <b>1972</b> | <b>49.9</b> |      | <b>72</b>    | <b>2001</b> | <b>22</b>  | <b>1957</b> | <b>0.12</b>  |      | <b>3.30</b>      | <b>1929</b> |

DATA COURTESY OF NATIONAL WEATHER SERVICE – TULSA  
 Temperatures are in degrees Fahrenheit; precipitation is in inches.

## APRIL WIND ROSES



**April Wind Roses for Oklahoma City and Tulsa.** The frequency (percent) of winds from each direction is represented by length of its bar. The numbers at the ends of the bars indicate the average wind speed from that direction in miles per hour.

## APRIL SUNRISE/SUNSET TIMES FOR 2003

ALL TIMES ARE CENTRAL STANDARD TIME

| OKLAHOMA CITY |         |         | TULSA   |         |         |
|---------------|---------|---------|---------|---------|---------|
| DATE          | SUNRISE | SUNSET  | DATE    | SUNRISE | SUNSET  |
| 4/1/03        | 6:17 AM | 6:52 PM | 4/1/03  | 6:10 AM | 6:46 PM |
| 4/2/03        | 6:16 AM | 6:52 PM | 4/2/03  | 6:09 AM | 6:46 PM |
| 4/3/03        | 6:14 AM | 6:53 PM | 4/3/03  | 6:08 AM | 6:47 PM |
| 4/4/03        | 6:13 AM | 6:54 PM | 4/4/03  | 6:06 AM | 6:48 PM |
| 4/5/03        | 6:12 AM | 6:55 PM | 4/5/03  | 6:05 AM | 6:49 PM |
| 4/6/03        | 6:10 AM | 6:56 PM | 4/6/03  | 6:03 AM | 6:50 PM |
| 4/7/03        | 6:09 AM | 6:56 PM | 4/7/03  | 6:02 AM | 6:51 PM |
| 4/8/03        | 6:07 AM | 6:57 PM | 4/8/03  | 6:01 AM | 6:51 PM |
| 4/9/03        | 6:06 AM | 6:58 PM | 4/9/03  | 5:59 AM | 6:52 PM |
| 4/10/03       | 6:05 AM | 6:59 PM | 4/10/03 | 5:58 AM | 6:53 PM |
| 4/11/03       | 6:03 AM | 7:00 PM | 4/11/03 | 5:56 AM | 6:54 PM |
| 4/12/03       | 6:02 AM | 7:00 PM | 4/12/03 | 5:55 AM | 6:55 PM |
| 4/13/03       | 6:01 AM | 7:01 PM | 4/13/03 | 5:54 AM | 6:56 PM |
| 4/14/03       | 5:59 AM | 7:02 PM | 4/14/03 | 5:52 AM | 6:56 PM |
| 4/15/03       | 5:58 AM | 7:03 PM | 4/15/03 | 5:51 AM | 6:57 PM |
| 4/16/03       | 5:57 AM | 7:04 PM | 4/16/03 | 5:50 AM | 6:58 PM |
| 4/17/03       | 5:55 AM | 7:05 PM | 4/17/03 | 5:48 AM | 6:59 PM |
| 4/18/03       | 5:54 AM | 7:05 PM | 4/18/03 | 5:47 AM | 7:00 PM |
| 4/19/03       | 5:53 AM | 7:06 PM | 4/19/03 | 5:46 AM | 7:01 PM |
| 4/20/03       | 5:52 AM | 7:07 PM | 4/20/03 | 5:44 AM | 7:02 PM |
| 4/21/03       | 5:50 AM | 7:08 PM | 4/21/03 | 5:43 AM | 7:02 PM |
| 4/22/03       | 5:49 AM | 7:09 PM | 4/22/03 | 5:42 AM | 7:03 PM |
| 4/23/03       | 5:48 AM | 7:10 PM | 4/23/03 | 5:41 AM | 7:04 PM |
| 4/24/03       | 5:47 AM | 7:10 PM | 4/24/03 | 5:39 AM | 7:05 PM |
| 4/25/03       | 5:46 AM | 7:11 PM | 4/25/03 | 5:38 AM | 7:06 PM |
| 4/26/03       | 5:44 AM | 7:12 PM | 4/26/03 | 5:37 AM | 7:07 PM |
| 4/27/03       | 5:43 AM | 7:13 PM | 4/27/03 | 5:36 AM | 7:08 PM |
| 4/28/03       | 5:42 AM | 7:14 PM | 4/28/03 | 5:35 AM | 7:08 PM |
| 4/29/03       | 5:41 AM | 7:15 PM | 4/29/03 | 5:34 AM | 7:09 PM |
| 4/30/03       | 5:40 AM | 7:15 PM | 4/30/03 | 5:32 AM | 7:10 PM |

## CONTACT INFORMATION

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