

# OKLAHOMA MONTHLY SUMMARY MARCH 1997

## TABLE OF CONTENTS

|   |    |
|---|----|
| March 1997 Oklahoma Summary .....                     | 2  |
| Table of March 1996/1997 Comparisons.....             | 5  |
| March 1997 Data Summary Tables .....                  | 6  |
| March 1997 Mesonet Summary .....                      | 11 |
| March 1997 State Map Summary .....                    | 12 |
| May Climatological Normals .....                      | 15 |
| 90 - Day National Weather Service Outlook .....       | 16 |
| May Wind Roses - May 1997 Sunrise/Sunset Tables ..... | 17 |
| Explanation of Tables .....                           | 18 |
| May Oklahoma City Climate Calendar .....              | 20 |
| May Tulsa Climate Calendar .....                      | 21 |

## MONTHLY SUMMARY FOR MARCH 1997

According to preliminary data from the National Weather Service, Oklahoma was warmer and significantly dryer than normal during March. The western third of the state particularly was lacking in moisture during a month in which the state's average reporting station received 1.15 inches of precipitation, 1.66 inches less than normal and the 21st lowest March total since 1892. Buttressed by a warm period near the end of the 3rd week of the month, the statewide average temperature of 53 degrees topped the normal value by 2.3 degrees, ranking this as Oklahoma's 29th warmest March. Overall statistics during the first three months of 1997, indicate that the state, as a whole, has experienced near-normal total precipitation and greater than normal temperatures. The January through March precipitation of 5.79 inches is 0.02 inch less than normal. The average temperature during the first quarter of the year, 44.5 degrees, is 1.6 degrees greater than normal.

The weather during the first ten days of the month was rather unremarkable. A series of weak cold fronts moved through the state, keeping daily low temperatures in the teens and 20s in the north and the 30s and 40s in the south. Heavy thunderstorms in extreme southeastern Oklahoma produced 1.75 inch-diameter hail near Hugo (Choctaw County). Large hail was also reported in Pushmataha, LeFlore, and McCurtain counties. A total of 2.93 inches of rain fell at the Hugo Mesonet site on the 1st and 2nd, but rainfall amounts in the southeast were generally between one and two inches. Rain in northeastern Oklahoma on the 9th and 10th measured 1.50 inches at Scrapper (Cherokee), but only a handful of locations reported as much as an inch.

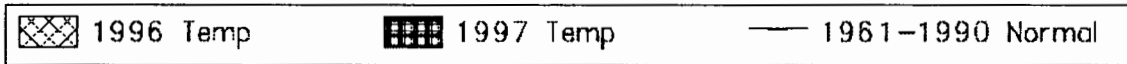
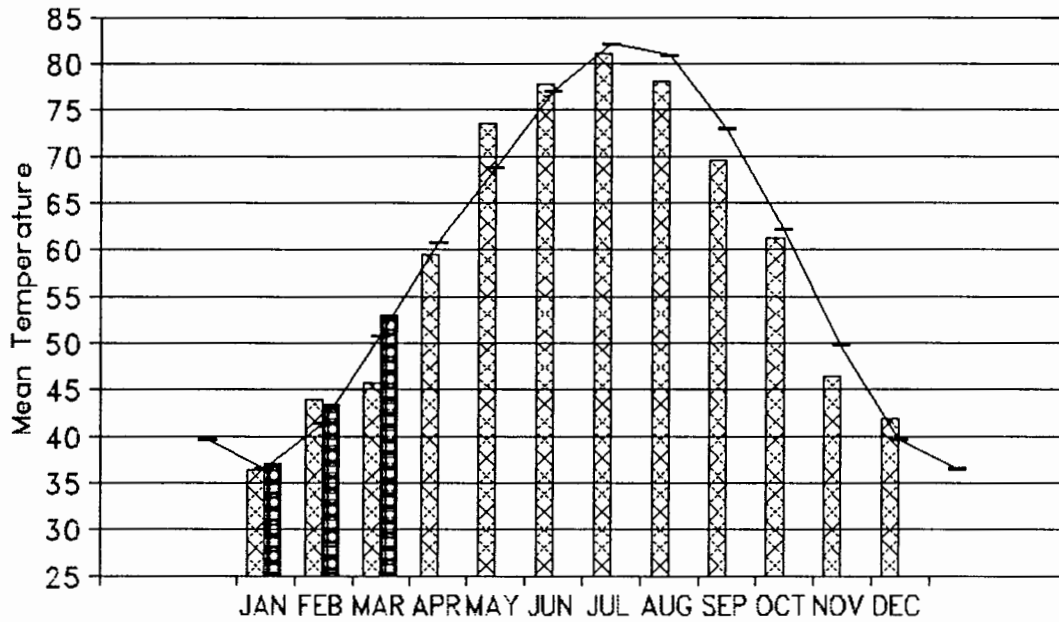
A much stronger cold front moved through the state on the 13th, producing significant rain in the southeast, including 2.50 inches at Smithville (McCurtain), 2.44 inches at Battiest (McCurtain), 2.37 inches at the Mesonet site east of Broken Bow (McCurtain), and 2.35 inches at the Cloudy (Pushmataha) Mesonet site. Cold air and strong winds dominated the state after the front's passage. Peak winds in excess of 50 miles per hour were recorded at Mesonet stations near Hinton (Caddo), Medicine Park (Comanche), and Minco (Grady) on the 14th. The average wind speed at each of those sites on the 14th was approximately 24 miles per hour. The lowest temperatures of the month were recorded on the 14th at the Slapout (Beaver) Mesonet site (14 degrees), the Hooker (Texas) Mesonet site (15 degrees), and by the Freedom (Woods) NWS cooperative observer (15 degrees).

Strong southerly winds and warm, dry weather dominated the state from the 21st through the 24th. Altus (Jackson) reported the month's highest temperature (98 degrees) on the 21st. The warm spell produced conditions ripe for wild fires in northeastern Oklahoma. Approximately 250 fires were reported, primarily east of the Neosho River. Nineteen of the 114 stations of the Oklahoma Mesonet recorded daily-average wind speeds in excess of 20 miles per hour on the 24th. Strong thunderstorms formed in central Oklahoma late on the 24th and moved across the eastern half of the state overnight, producing some hail and high winds while also providing sufficient moisture to end the fire danger. Eyewitnesses reported a small tornado near Terlton (Pawnee) that destroyed a mobile home. The Mesonet site at Pawnee (Pawnee) recorded a peak wind of 73 miles per hour.

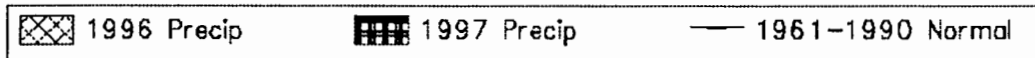
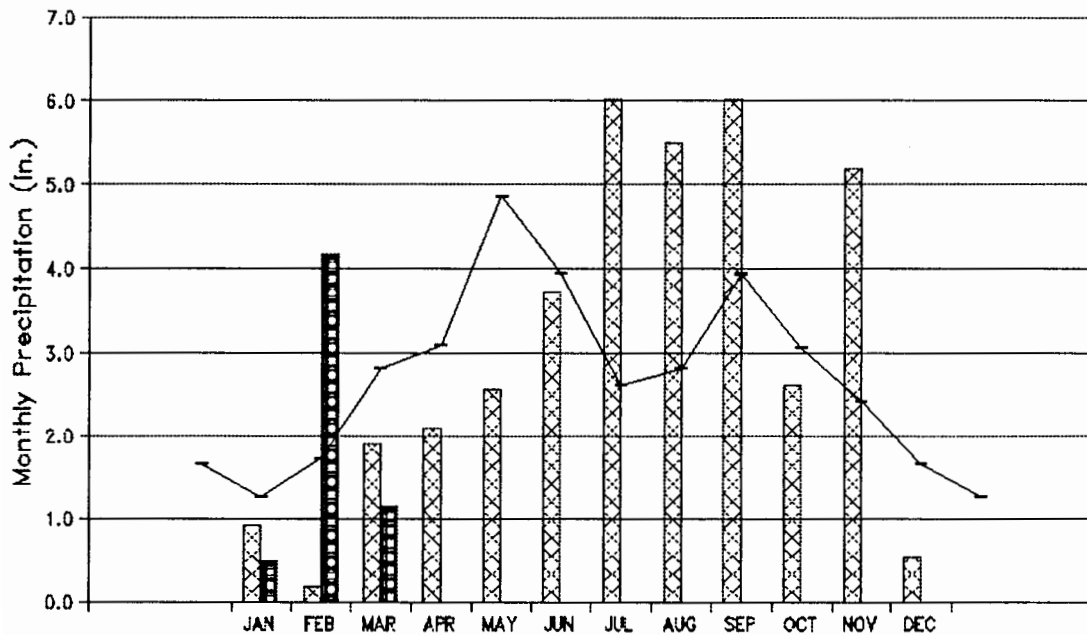
A round of thunderstorms in north central and northeastern Oklahoma on the 27th produced large hail, including an oblong hailstone measuring 4.75 inches long and 2.75 inches wide that fell in Tulsa. An small tornado reportedly touched down briefly near Watonga (Blaine). More thunderstorms formed in southwestern Oklahoma on the 27th, producing large hail and high winds, but no reports of precipitation greater than 0.53 inch.

Howard L. Johnson

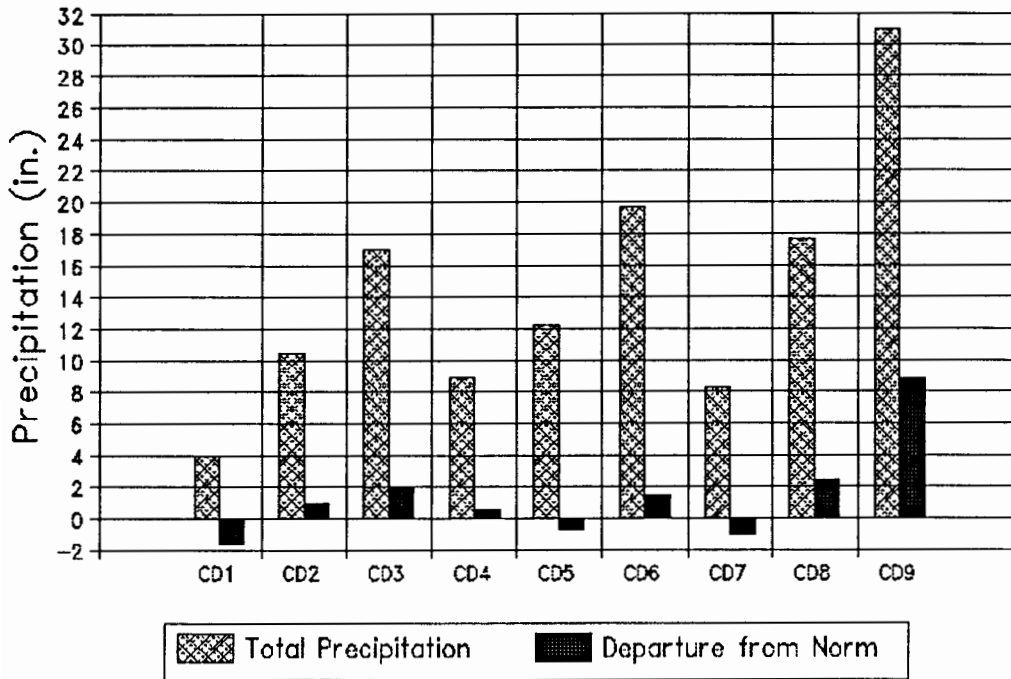
### 1996 and 1997 STATEWIDE TEMPERATURES Monthly Averages



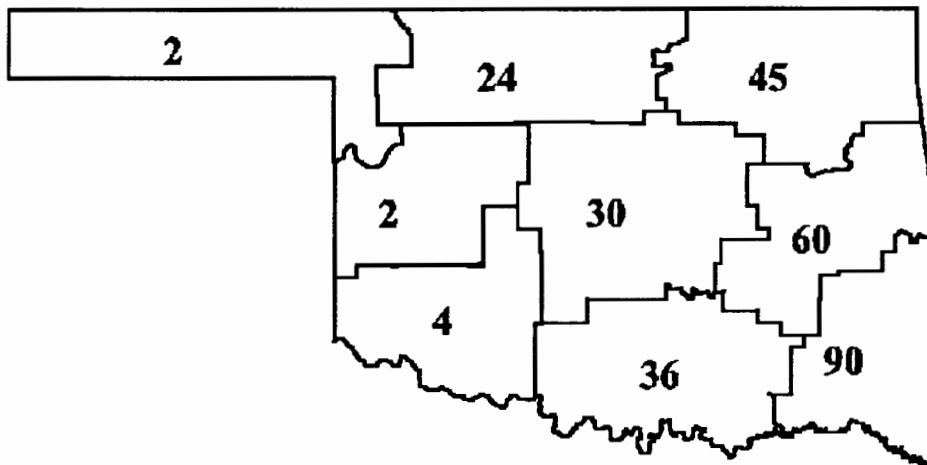
### 1996 and 1997 STATEWIDE PRECIPITATION Monthly Totals



### CD Averaged Precipitation October 1996 through March 1997



### CD PERCENT OF NORMAL PRECIPITATION



**MARCH 1997**

**EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION  
MARCH, 1997**

| CD | MAX TEMP | DATE | LOCATION    | MIN TEMP | DATE | LOCATION     | 24-HOUR PRECIP | DATE | LOCATION   | MONTHLY PRECIP | LOCATION   |
|----|----------|------|-------------|----------|------|--------------|----------------|------|------------|----------------|------------|
| 1  | 89       | 17   | BUFFALO     | 14       | 15   | TURPIN       | .19            | 25   | KENTON     | .19            | KENTON     |
|    |          |      |             | 14       | 16   | TURPIN       |                |      |            |                |            |
| 2  | 91       | 21   | PERRY       | 15       | 15   | FREEDOM      | .92            | 25   | BILLINGS   | 1.23           | MEDFORD    |
| 3  | 95       | 21   | MANNFORD    | 10       | 29   | KEYSTONE     | 1.38           | 9    | KANSAS     | 4.86           | KANSAS     |
| 4  | 92       | 21   | ELK CITY    | 18       | 15   | OKEENE       | .18            | 25   | OKEENE     | .18            | OKEENE     |
| 5  | 97       | 21   | EL RENO     | 20       | 15   | KINGFISHER   | 1.55           | 24   | MEEKER     | 2.34           | WELTY      |
| 6  | 91       | 21   | HOLDENVILLE | 23       | 15   | STILWELL     | 1.50           | 9    | SCRAPER    | 5.02           | MCCURTAIN  |
|    | 91       | 22   | OKMULGEE    |          |      |              |                |      |            |                |            |
| 7  | 98       | 21   | ALTUS       | 23       | 15   | ANADARKO     | .20            | 25   | ANADARKO   | .24            | RANDLETT   |
| 8  | 91       | 21   | ARDMORE     | 25       | 15   | MARLOW       | 1.59           | 25   | DURANT     | 3.46           | DURANT     |
|    | 91       | 22   | CHICKASAW   | 25       | 6    | PAULS VALLEY |                |      |            |                |            |
|    | 91       | 21   | HEALDTON    |          |      |              |                |      |            |                |            |
|    | 91       | 21   | WAURIKA     |          |      |              |                |      |            |                |            |
|    | 91       | 22   | WAURIKA DAM |          |      |              |                |      |            |                |            |
| 9  | 89       | 21   | TUSKAHOMA   | 23       | 6    | SMITHVILLE   | 2.25           | 13   | SMITHVILLE | 5.27           | SMITHVILLE |

**TABLE OF 1996/1997 COMPARISONS**

| Station           | MARCH<br>Temperature (°F) |      | MARCH<br>Precipitation (in.) |      |
|-------------------|---------------------------|------|------------------------------|------|
|                   | 1996                      | 1997 | 1996                         | 1997 |
| Arnett            | 40.5                      | 48.8 | 0.44                         | 0.08 |
| Mutual            | 41.7                      | 49.5 | 0.16                         | 0.04 |
| Tulsa             | 45.4                      | 52.4 | 2.07                         | 1.63 |
| Elk City          | 45.7                      | 52.5 | 0.19                         | 0.05 |
| Oklahoma City     | 46.0                      | 52.5 | 2.17                         | 0.61 |
| McAlester         | 50.6                      | **** | 2.16                         | **** |
| Altus Irr Station | 47.7                      | 56.4 | 0.51                         | 0.02 |
| Ardmore           | 51.9                      | 57.9 | 4.03                         | 0.72 |
| Idabel            | 48.0                      | 54.2 | 3.09                         | 5.21 |

**EXTREMES**

| VARIABLE                         | STATION    | DIVISION | OBSERVATION | DATE |
|----------------------------------|------------|----------|-------------|------|
| Minimum temperature (°F)         | Keystone   | 3        | 10          | 29   |
| Maximum temperature (°F)         | Altus      | 7        | 98          | 21   |
| Maximum 24-hour<br>precipitation | Smithville | 9        | 2.25"       | 13   |

MARCH 1997 SUMMARY FOR PANHANDLE DIVISION (CD1)

| NAME       | ID   | CD | MEAN<br>TEMP | NUM<br>OBS | DEV          |             | MIN<br>DAY | HEAT<br>DEG<br>DAY | 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  | 48.8         | 31         | 3            | 86          | 18         | 16                 | 504.5               | -90.5              | 1.5                 | 1.5        | 0.08       | 31           | -1.55        | 0.04  | 28   |    |
| BOISE CITY | 908  | 1  | 49.7         | 31         | 4.4          | 82          | 20         | 15                 | 474                 | -137               | 0                   | 0          | 0.051      | 31           | -0.83        | 0.05  | 24   |    |
| BUFFALO    | 1243 | 1  | 51.2         | 31         | 2.2          | 89          | 17         | 16                 | 430                 | -76                | 2                   | -8         | 0          | 31           | -1.86        | 0     | 31   |    |
| FARGO      | 3070 | 1  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.051        | 31           | -1.58 | 0.05 | 1  |
| GATE       | 3489 | 1  | 50.2         | 30         | 4.4          | 87          | 21         | 16                 | 445.5               | -156.5             | 2                   | -5         | 0          | 31           | -1.68        | 0     | 31   |    |
| GOODWELL   | 3628 | 1  | 49.9         | 31         | 6            | 86          | 18         | 15                 | 470.5               | -183.5             | 3                   | 3          | 0          | 31           | -0.87        | 0     | 31   |    |
| HOOKER     | 4298 | 1  | 48.4         | 31         | 2.5          | 86          | 21         | 16                 | 516                 | -76                | 0                   | 0          | 0          | 31           | -1.16        | 0     | 31   |    |
| KENTON     | 4766 | 1  | 49.2         | 30         | 6.2          | 82          | 20         | 18                 | 474                 | -208               | 0                   | 0          | 0.191      | 30           | *****        | 0.19  | 25   |    |
| LAVERNE    | 5045 | 1  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.02         | 31           | -1.68 | 0.02 | 28 |
| REGNIER    | 7534 | 1  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.021        | 31           | -0.71 | 0.02 | 25 |
| TURPIN     | 9017 | 1  | 47.9         | 27         | *****        | 83          | 21         | 14                 | 461                 | *****              | 0                   | *****      | 0          | 27           | *****        | 0     | 31   |    |

MARCH 1997 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

| NAME         | ID   | CD | MEAN<br>TEMP | NUM<br>OBS | DEV          |             | MIN<br>DAY | HEAT<br>DEG<br>DAY | 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  | 52.8         | 31         | *****        | 89          | 20         | 15                 | 386.5               | *****              | 9                   | *****      | 0.35       | 31           | *****        | 0.31  | 25   |    |
| BILLINGS     | 755  | 2  | 49.7         | 31         | 1.9          | 85          | 22         | 15                 | 475                 | -66                | 0                   | -8         | 1.103      | 31           | -1.59        | 0.92  | 25   |    |
| BLACKWELL 2E | 818  | 2  | 52           | 31         | 3.9          | 83          | 21         | 23                 | 403.5               | -126.5             | 0.5                 | -5.5       | 0.446      | 31           | -1.95        | 0.36  | 25   |    |
| BRAMAN       | 1075 | 2  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.762        | 31           | ***** | 0.4  | 25 |
| CEDARDALE    | 1620 | 2  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.73         | 31           | ***** | 0.57 | 25 |
| CHEROKEE     | 1724 | 2  | 52           | 30         | 2.5          | 84          | 22         | 14                 | 390.5               | -99.5              | 0.5                 | -8.5       | 0.001      | 31           | -2.44        | 0     | 27   |    |
| ENID         | 2912 | 2  | 53.1         | 31         | 3.2          | 86          | 21         | 22                 | 374.5               | -103.5             | 6                   | -4         | 0.24       | 31           | -2.05        | 0.12  | 19   |    |
| FT SUPPLY    | 3304 | 2  | 51.8         | 29         | *****        | 89          | 18         | 16                 | 390.5               | *****              | 6.5                 | *****      | 0.02       | 30           | *****        | 0.02  | 28   |    |
| FREEDOM      | 3358 | 2  | 47           | 31         | -1.7         | 89          | 22         | 15                 | 560.5               | 45.5               | 3                   | -7         | 0.1        | 31           | -1.76        | 0.06  | 1    |    |
| GREAT SALT P | 3740 | 2  | 51.1         | 31         | 4.1          | 85          | 22         | 15                 | 430                 | -134               | 0                   | -6         | 0.45       | 31           | -1.91        | 0.27  | 28   |    |
| HARDY        | 3909 | 2  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.71         | 31           | ***** | 0.43 | 25 |
| HELENA       | 4019 | 2  | 49.9         | 30         | 3.6          | 85          | 21         | 20                 | 454                 | -126               | 0                   | 0          | 0.965      | 30           | *****        | 0.87  | 25   |    |
| JEFFERSON    | 4573 | 2  | 51.5         | 31         | 2.4          | 86          | 21         | 22                 | 419.5               | -80.5              | 1                   | -6         | 0.991      | 31           | -1.6         | 0.91  | 24   |    |
| LAMONT       | 5013 | 2  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.95         | 31           | ***** | 0.88 | 24 |
| MEDFORD      | 5768 | 2  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 1.23         | 31           | ***** | 0.84 | 24 |
| MORRISON     | 6065 | 2  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.681        | 31           | ***** | 0.45 | 25 |
| MUTUAL       | 6139 | 2  | 49.5         | 31         | 3.3          | 85          | 21         | 17                 | 482                 | -101               | 0                   | 0          | 0.04       | 31           | -2.02        | 0.04  | 1    |    |
| NEWKIRK      | 6278 | 2  | 50.5         | 31         | 1.7          | 82          | 21         | 22                 | 451.5               | -60.5              | 2.5                 | -7.5       | 0.361      | 31           | -2.01        | 0.2   | 25   |    |
| ORIENTA      | 6751 | 2  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.32         | 31           | -1.77 | 0.32 | 25 |
| PERRY        | 7012 | 2  | 55.8         | 31         | 5.3          | 91          | 21         | 24                 | 306.5               | -157.5             | 20                  | 6          | 0.402      | 31           | -2.31        | 0.37  | 25   |    |
| PONCA CITY   | 7201 | 2  | 52.6         | 31         | 4.7          | 88          | 21         | 25                 | 387.5               | -150.5             | 4                   | -4         | 0.861      | 31           | -1.67        | 0.74  | 24   |    |
| RED ROCK     | 7505 | 2  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.55         | 31           | -2.04 | 0.55 | 25 |
| WAYNOKA      | 9404 | 2  | 50.8         | 25         | *****        | 88          | 21         | 19                 | 357.5               | *****              | 2.5                 | *****      | 0.23       | 31           | -1.68        | 0.1   | 25   |    |
| WOODWARD     | 9760 | 2  | *****        | 0          | *****        | ****        | 0          | ****               | 0                   | *****              | *****               | *****      | *****      | 0.002        | 31           | -1.82 | 0    | 17 |



MARCH 1997 SUMMARY FOR CENTRAL DIVISION (CD5)

| NAME         | ID   | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|--------------|------|----|-----------|---------|---------------|----------|-----|----------|-----|--------------|---------------|--------------|---------------|---------|---------|---------------|-----------|-----|
| AMBER        | 200  | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.33    | 31      | *****         | 0.33      | 25  |
| ARCADIA      | 288  | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.053   | 31      | *****         | 0.05      | 25  |
| BLANCHARD    | 830  | 5  | 54.9      | 31      | 2.4           | 91       | 21  | 25       | 15  | 321          | -80           | 8.5          | -4.5          | 1.063   | 31      | -1.63         | 0.69      | 25  |
| BRISTOW      | 1144 | 5  | 54.9      | 31      | 3.2           | 92       | 21  | 24       | 15  | 323.5        | -100.5        | 11.5         | -0.5          | 2.043   | 31      | -1            | 0.88      | 25  |
| CHANDLER     | 1684 | 5  | 53.9      | 28      | *****         | 93       | 21  | 24       | 14  | 320.5        | *****         | 10           | *****         | 0.952   | 30      | *****         | 0.56      | 25  |
| CHICKASHA    | 1750 | 5  | 52.1      | 31      | -0.1          | 88       | 21  | 25       | 15  | 403          | -6            | 3            | -9            | 0.33    | 31      | -2.17         | 0.28      | 25  |
| COX CITY     | 2196 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.18    | 31      | *****         | 0.1       | 4   |
| CRESCENT     | 2242 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.57    | 31      | *****         | 0.43      | 25  |
| CUSHING      | 2318 | 5  | 52.6      | 28      | *****         | 93       | 22  | 24       | 14  | 349.5        | *****         | 3.5          | *****         | 0.251   | 29      | *****         | 0.25      | 25  |
| EL RENO      | 2818 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.041   | 31      | -2.3          | 0.03      | 25  |
| GUTHRIE      | 3821 | 5  | 52.3      | 30      | 1             | 93       | 21  | 23       | 15  | 395.5        | -40.5         | 14           | 3             | 0.103   | 31      | -2.72         | 0.1       | 25  |
| HENNESSEY    | 4055 | 5  | 50.6      | 23      | *****         | 78       | 29  | 25       | 14  | 331          | *****         | 0            | *****         | 0.11    | 31      | -2.24         | 0.05      | 25  |
| INGALLS      | 4489 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.741   | 31      | *****         | 0.45      | 25  |
| KINGFISHER   | 4861 | 5  | 51.2      | 30      | 0.3           | 91       | 21  | 20       | 15  | 419          | -27           | 3.5          | -5.5          | 0.27    | 31      | -1.98         | 0.11      | 25  |
| KONAWA       | 4915 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.13    | 31      | -2.08         | 0.35      | 9   |
| MARSHALL     | 5589 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0       | 31      | -2.47         | 0         | 31  |
| MEEKER       | 5779 | 5  | 53.6      | 31      | 1.9           | 91       | 21  | 24       | 15  | 363.5        | -60.5         | 9.5          | -1.5          | 2.02    | 31      | -0.79         | 1.55      | 24  |
| MULHALL      | 6110 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.891   | 31      | *****         | 0.75      | 25  |
| NORMAN NWS   | 6386 | 5  | 52.1      | 31      | -0.3          | 91       | 21  | 25       | 15  | 410.5        | 6.5           | 9.5          | -3.5          | 1.004   | 31      | -1.89         | 0.48      | 25  |
| OILTON       | 6616 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0       | 31      | *****         | 0         | 31  |
| OKEMAH       | 6638 | 5  | 56.9      | 31      | 4.9           | 92       | 21  | 28       | 15  | 263          | -154          | 11.5         | -2.5          | 1.59    | 31      | -1.56         | 1         | 25  |
| OKLAHOMA CTY | 6661 | 5  | 52.5      | 31      | 2.2           | 90       | 21  | 27       | 15  | 394          | -70           | 5            | -4            | 0.611   | 31      | -2.1          | 0.5       | 25  |
| PERKINS      | 7003 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.45    | 31      | -2.45         | 0.26      | 25  |
| PIEDMONT     | 7068 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.1     | 31      | *****         | 0.05      | 30  |
| PRAGUE       | 7264 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 2.07    | 31      | -1.11         | 1.39      | 25  |
| PURCELL      | 7327 | 5  | 53.7      | 31      | 1.2           | 90       | 21  | 25       | 6   | 352.5        | -47.5         | 1.5          | -10.5         | 0.561   | 31      | -2.57         | 0.3       | 5   |
| SEMINOLE     | 8042 | 5  | 55.1      | 31      | 1.7           | 90       | 21  | 26       | 15  | 312.5        | -65.5         | 6.5          | -11.5         | 1.642   | 31      | -1.63         | 0.67      | 25  |
| SHAWNEE      | 8110 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.65    | 31      | -1.54         | 1.03      | 25  |
| STELLA       | 8479 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 2.01    | 31      | *****         | 1.23      | 24  |
| STILLWATER   | 8501 | 5  | 51.5      | 31      | 3.3           | 93       | 22  | 25       | 14  | 422.5        | -104.5        | 4            | -2            | 0.772   | 31      | -2.02         | 0.7       | 25  |
| STROUD       | 8563 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.584   | 31      | *****         | 0.57      | 25  |
| TECUMSEH     | 8751 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.19    | 31      | *****         | 0.45      | 10  |
| TROUSDALE    | 8960 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.69    | 31      | *****         | 0.25      | 9   |
| UNION CITY   | 9086 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.211   | 31      | -2.7          | 0.08      | 25  |
| WELTY        | 9479 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 2.341   | 31      | *****         | 1.45      | 25  |
| WEWOKA       | 9575 | 5  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.14    | 31      | -2.11         | 0.38      | 25  |

MARCH 1997 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

| NAME         | ID   | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|--------------|------|----|-----------|---------|---------------|----------|-----|----------|-----|--------------|---------------|--------------|---------------|---------|---------|---------------|-----------|-----|
| ASHLAND      | 364  | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.751   | 31      | *****         | 0.96      | 13  |
| BEGGS        | 631  | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.53    | 31      | *****         | 0.89      | 25  |
| CALVIN       | 1391 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 0.8     | 31      | -3            | 0.4       | 13  |
| CHECOTAH     | 1711 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.922   | 31      | -1.78         | 0.73      | 25  |
| CLAYTON      | 1858 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 2.25    | 31      | *****         | 0.79      | 13  |
| DEWAR        | 2485 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.657   | 31      | -1.89         | 0.76      | 25  |
| DUSTIN       | 2690 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.151   | 31      | *****         | 0.68      | 25  |
| EUFULA       | 2993 | 6  | 54.5      | 30      | 1.1           | 86       | 21  | 28       | 15  | 320.5        | -57.5         | 6            | -13           | 2.8     | 30      | *****         | 1.05      | 25  |
| HANNA        | 3884 | 6  | 53.7      | 31      | 1             | 88       | 21  | 26       | 14  | 353.5        | -43.5         | 2            | -14           | 1.6     | 31      | -2.47         | 0.57      | 25  |
| HARTSHORNE   | 3946 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 2.69    | 31      | *****         | 1.17      | 24  |
| HASKELL      | 3956 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.84    | 31      | -1.76         | 0.75      | 8   |
| HOLDENVILLE  | 4235 | 6  | 54.6      | 31      | 2.1           | 91       | 21  | 26       | 15  | 327.5        | -72.5         | 5.5          | -6.5          | 0.18    | 31      | -3.16         | 0.12      | 25  |
| LAKE EUFAULA | 4975 | 6  | 52.8      | 31      | *****         | 87       | 22  | 27       | 15  | 379.5        | *****         | 1.5          | *****         | 3.04    | 31      | *****         | 1.48      | 25  |
| LYONS        | 5437 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 3.111   | 31      | -1.14         | 1.04      | 25  |
| MARBLE CITY  | 5546 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 3.06    | 31      | *****         | 1.01      | 11  |
| MCCURTAIN    | 5693 | 6  | 55.2      | 31      | 1.7           | 89       | 21  | 27       | 20  | 311.5        | -65.5         | 6.5          | -13.5         | 5.02    | 31      | 0.91          | 1.11      | 25  |
| MUSKOGEE     | 6130 | 6  | 54.7      | 31      | 2.7           | 88       | 21  | 27       | 16  | 327.5        | -88.5         | 7            | -6            | 2.262   | 31      | -1.29         | 0.75      | 12  |
| OKMULGEE     | 6670 | 6  | 50.3      | 26      | *****         | 91       | 22  | 25       | 15  | 385          | *****         | 3.5          | *****         | 2.26    | 29      | *****         | 1.15      | 25  |
| OKTAHA       | 6678 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.39    | 31      | *****         | 0.79      | 25  |
| QUINTON      | 7372 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 2.435   | 31      | -1.57         | 0.73      | 24  |
| SALLISAW     | 7862 | 6  | 53.3      | 31      | 1             | 86       | 22  | 28       | 15  | 364          | -42           | 2.5          | -10.5         | 3.461   | 31      | -0.78         | 0.87      | 13  |
| SCIPIO       | 7979 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.61    | 31      | *****         | 0.37      | 25  |
| SCRAPER      | 7993 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 2.4     | 31      | *****         | 1.5       | 9   |
| SHORT        | 8170 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 3.69    | 31      | *****         | 0.83      | 13  |
| STILWELL     | 8506 | 6  | 52.6      | 31      | 2.1           | 85       | 21  | 23       | 15  | 383.5        | -77.5         | 0.5          | -10.5         | 3.68    | 31      | -0.6          | 1.15      | 25  |
| TAHLEQUAH    | 8677 | 6  | 53.4      | 31      | 2.3           | 88       | 21  | 25       | 15  | 363.5        | -79.5         | 4.5          | -7.5          | 2.802   | 31      | -1.29         | 0.85      | 10  |
| WEBBERS FALL | 9445 | 6  | 52.1      | 31      | 2.1           | 89       | 22  | 27       | 15  | 403          | -69           | 2            | -5            | 3.24    | 31      | -0.71         | 1.22      | 25  |
| WETUMKA      | 9571 | 6  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 1.53    | 31      | -2.07         | 0.57      | 25  |



MARCH 1997 SUMMARY FOR SOUTHWEST DIVISION (CD7)

| NAME        | ID   | CD | MEAN TEMP | NUM OBS | DEV       |          | MIN DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV       |           | DAY   |      |    |
|-------------|------|----|-----------|---------|-----------|----------|---------|--------------|---------------|--------------|---------------|---------|---------|-----------|-----------|-------|------|----|
|             |      |    |           |         | FROM NORM | MAX TEMP |         |              |               |              |               |         |         | FROM NORM | MAX 24-HR |       |      |    |
| ALTUS       | 179  | 7  | 56.4      | 31      | 2.9       | 98       | 21      | 26           | 15            | 282          | -88           | 14      | 0       | 0.02      | 31        | -1.54 | 0.01 | 27 |
| ALTUS DAM   | 184  | 7  | 54.4      | 31      | 3.6       | 94       | 22      | 24           | 15            | 340.5        | -108.5        | 12      | 3       | 0.13      | 31        | -1.6  | 0.08 | 27 |
| ANADARKO    | 224  | 7  | 51        | 31      | -0.4      | 88       | 22      | 23           | 15            | 434.5        | 5.5           | 1       | -6      | 0.221     | 31        | -1.95 | 0.2  | 25 |
| APACHE      | 260  | 7  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0         | 31        | -2.35 | 0    | 31 |
| CARNEGIE    | 1504 | 7  | 53.9      | 30      | 2.5       | 89       | 21      | 26           | 16            | 337.5        | -92.5         | 4       | -4      | 0.001     | 30        | ***** | 0    | 8  |
| CHATTANOOGA | 1706 | 7  | 56.9      | 31      | 4         | 94       | 21      | 27           | 15            | 263          | -124          | 13      | 1       | 0.03      | 31        | -2.1  | 0.03 | 9  |
| DUNCAN 11 W | 2668 | 7  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.112     | 31        | ***** | 0.11 | 2  |
| FREDERICK   | 3353 | 7  | 55.8      | 31      | 4.2       | 94       | 22      | 27           | 15            | 297          | -129          | 11.5    | 0.5     | 0.04      | 31        | -2.03 | 0.03 | 9  |
| HEADRICK    | 3998 | 7  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.043     | 31        | ***** | 0.02 | 31 |
| HOLLIS      | 4249 | 7  | 54.1      | 31      | 1.2       | 94       | 21      | 24           | 15            | 345.5        | -42.5         | 8       | -4      | 0.011     | 31        | -1.37 | 0.01 | 9  |
| LAWTON      | 5063 | 7  | 54.2      | 31      | 2.9       | 92       | 22      | 28           | 15            | 340.5        | -93.5         | 5       | -5      | 0.022     | 31        | -2.11 | 0.02 | 9  |
| FORT SILL   | 5068 | 7  | 55.1      | 31      | *****     | 92       | 21      | 29           | 15            | 314.5        | *****         | 8       | *****   | 0.177     | 31        | ***** | 0.13 | 9  |
| LOOKEBA     | 5329 | 7  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.07      | 31        | -2.11 | 0.07 | 1  |
| MANGUM      | 5509 | 7  | 56.2      | 31      | 3.2       | 95       | 21      | 24           | 15            | 290.5        | -96.5         | 17.5    | 2.5     | 0         | 31        | -1.53 | 0    | 31 |
| RANDLETT    | 7403 | 7  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.242     | 31        | ***** | 0.13 | 9  |
| ROOSEVELT   | 7727 | 7  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.02      | 31        | -1.71 | 0.02 | 9  |
| SEDAN       | 8016 | 7  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.05      | 31        | ***** | 0.05 | 9  |
| SNYDER      | 8299 | 7  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.022     | 31        | -1.77 | 0.02 | 10 |
| VINSON      | 9212 | 7  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0         | 31        | -1.47 | 0    | 31 |
| WALTERS     | 9278 | 7  | 56.7      | 31      | 2.7       | 91       | 21      | 27           | 15            | 271.5        | -86.5         | 13.5    | -3.5    | 0.17      | 31        | -2.38 | 0.17 | 10 |
| WICHITA MT  | 9629 | 7  | 52.3      | 31      | 2.7       | 92       | 22      | 25           | 6             | 397          | -91           | 4       | -7      | 0.13      | 31        | -2.27 | 0.11 | 9  |
| WILLOW      | 9668 | 7  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.023     | 31        | ***** | 0.02 | 9  |

MARCH 1997 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

| NAME         | ID   | CD | MEAN TEMP | NUM OBS | DEV       |          | MIN DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV       |           | DAY   |      |    |
|--------------|------|----|-----------|---------|-----------|----------|---------|--------------|---------------|--------------|---------------|---------|---------|-----------|-----------|-------|------|----|
|              |      |    |           |         | FROM NORM | MAX TEMP |         |              |               |              |               |         |         | FROM NORM | MAX 24-HR |       |      |    |
| ADA          | 17   | 8  | 53.5      | 31      | 0.6       | 90       | 21      | 27           | 15            | 357.5        | -34.5         | 1.5     | -15.5   | 0.932     | 31        | -2.33 | 0.33 | 30 |
| ALLEN        | 147  | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.57      | 31        | ***** | 0.5  | 30 |
| ARDMORE      | 292  | 8  | 57.9      | 31      | 2.4       | 91       | 21      | 29           | 15            | 236.5        | -83.5         | 17      | -9      | 0.72      | 31        | -2.38 | 0.25 | 9  |
| ATOKA DAM    | 394  | 8  | 53.8      | 21      | *****     | 90       | 24      | 29           | 7             | 236          | *****         | 0.5     | *****   | 2.651     | 21        | ***** | 0.7  | 25 |
| BOKCHITO     | 917  | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 2.45      | 31        | ***** | 1.55 | 18 |
| CENTRAHOMA   | 1648 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 1.85      | 31        | ***** | 0.65 | 13 |
| CHICKASAW    | 1745 | 8  | 53.2      | 31      | 1.9       | 91       | 22      | 26           | 15            | 371.5        | -64.5         | 5.5     | -5.5    | 1.44      | 31        | -2    | 0.56 | 9  |
| COLEMAN      | 2011 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 1.773     | 31        | ***** | 0.63 | 25 |
| COMANCHE     | 2054 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.55      | 31        | -2.08 | 0.34 | 10 |
| DAISY        | 2354 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 2.932     | 31        | -1.45 | 0.88 | 13 |
| DUNCAN       | 2660 | 8  | 54.4      | 31      | 2.6       | 89       | 22      | 29           | 15            | 333          | -88           | 4.5     | -7.5    | 0.47      | 31        | -2.12 | 0.2  | 9  |
| DURANT       | 2678 | 8  | 54.1      | 29      | *****     | 90       | 22      | 29           | 15            | 322          | *****         | 6       | *****   | 3.46      | 29        | ***** | 1.59 | 25 |
| ELMORE CITY  | 2872 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.32      | 31        | ***** | 0.17 | 9  |
| GRADY        | 3688 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 1.02      | 31        | ***** | 0.26 | 9  |
| HEALDTON     | 4001 | 8  | 56.3      | 31      | 2.5       | 91       | 21      | 28           | 15            | 279          | -87           | 9       | -10     | 0.78      | 31        | -2.13 | 0.21 | 13 |
| HENNEPIN     | 4052 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.25      | 31        | ***** | 0.13 | 10 |
| KETCHUM RAN  | 4780 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.44      | 31        | ***** | 0.13 | 9  |
| KINGSTON     | 4865 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 1.651     | 31        | -1.91 | 0.94 | 25 |
| LEHIGH       | 5108 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 2.054     | 31        | ***** | 0.5  | 19 |
| LINDSAY      | 5216 | 8  | 54.5      | 31      | 1.8       | 88       | 21      | 27           | 15            | 333.5        | -61.5         | 7       | -6      | 0.32      | 31        | -2.57 | 0.23 | 5  |
| LOCO         | 5247 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 1.1       | 31        | ***** | 0.57 | 25 |
| MADILL       | 5468 | 8  | 56        | 30      | 1.6       | 88       | 21      | 29           | 15            | 272.5        | -76.5         | 2.5     | -17.5   | 1.73      | 31        | -1.77 | 0.99 | 24 |
| MARIETTA     | 5563 | 8  | 56.9      | 31      | 2.3       | 88       | 21      | 28           | 15            | 259.5        | -82.5         | 7       | -13     | 1.66      | 31        | -1.65 | 0.8  | 25 |
| MARLOW       | 5581 | 8  | 55.5      | 31      | 2.5       | 89       | 22      | 25           | 15            | 304          | -82           | 9       | -5      | 0.441     | 31        | -2    | 0.24 | 9  |
| MCGEE CREEK  | 5713 | 8  | 54.3      | 31      | *****     | 81       | 30      | 29           | 15            | 332          | *****         | 0.5     | *****   | 3.153     | 31        | ***** | 0.98 | 25 |
| PAULS VALLEY | 6926 | 8  | 54.3      | 31      | 0.9       | 90       | 21      | 25           | 6             | 341.5        | -32.5         | 9       | -6      | 0.45      | 31        | -2.47 | 0.22 | 25 |
| PONTOTOC     | 7214 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 1.131     | 31        | -2.52 | 0.37 | 24 |
| TISHOMINGO   | 8884 | 8  | 54.1      | 31      | -0.1      | 88       | 21      | 26           | 6             | 345.5        | -3.5          | 8       | -7      | 1.74      | 31        | -1.96 | 0.88 | 24 |
| TUSSY        | 9032 | 8  | *****     | 0       | *****     | ****     | 0       | ****         | 0             | *****        | *****         | *****   | *****   | 0.47      | 31        | ***** | 0.16 | 9  |
| WAURIKA      | 9395 | 8  | 57        | 30      | 2.2       | 91       | 21      | 27           | 15            | 252          | -87           | 11.5    | -11.5   | 0.491     | 31        | -1.87 | 0.2  | 9  |
| WAURIKA DAM  | 9399 | 8  | 57.7      | 24      | *****     | 91       | 22      | 30           | 6             | 183          | *****         | 7.5     | *****   | 1.051     | 31        | ***** | 0.92 | 9  |

MARCH 1997 SUMMARY FOR SOUTHEAST DIVISION (CD9)

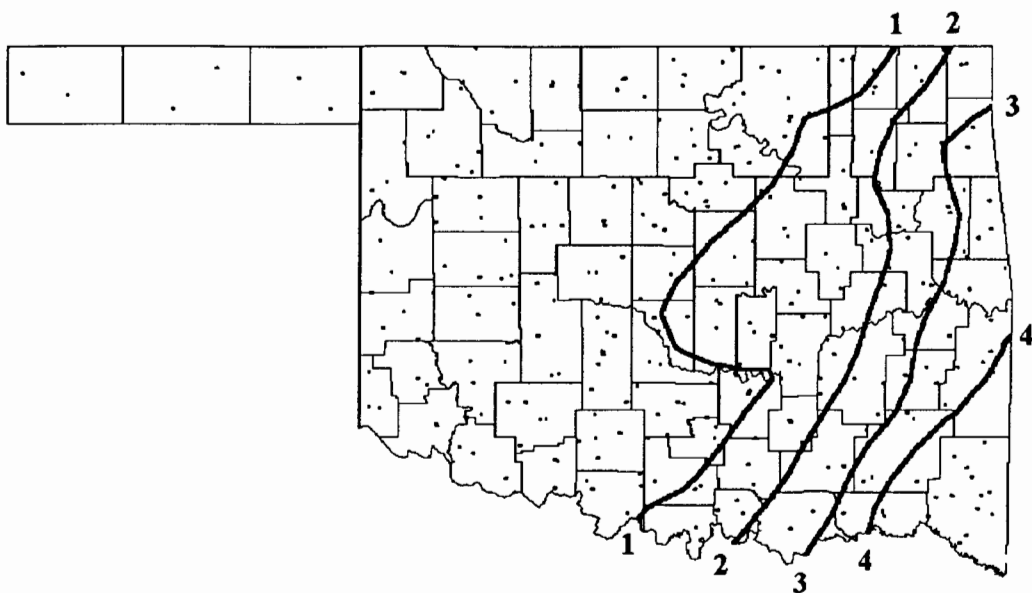
| NAME         | ID   | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|--------------|------|----|-----------|---------|---------------|----------|-----|----------|-----|--------------|---------------|--------------|---------------|---------|---------|---------------|-----------|-----|
| ANTLERS      | 256  | 9  | 56.1      | 31      | 2.2           | 86       | 21  | 27       | 15  | 283.5        | -79.5         | 7            | -12           | 2.66    | 31      | -1.13         | 1.01      | 13  |
| BATTIEST     | 567  | 9  | 53.3      | 31      | ****          | 81       | 21  | 24       | 6   | 364          | *****         | 2.5          | *****         | 5.24    | 31      | *****         | 1.95      | 13  |
| BEAR MT      | 584  | 9  | 56.5      | 21      | ****          | 85       | 22  | 28       | 15  | 184          | *****         | 6            | *****         | 4.53    | 31      | -0.21         | 1.99      | 13  |
| BENGAL       | 670  | 9  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 3.281   | 31      | *****         | 1.39      | 13  |
| BOSWELL      | 980  | 9  | 56.1      | 31      | 1.9           | 87       | 21  | 28       | 15  | 281.5        | -69.5         | 6.5          | -9.5          | 2.462   | 31      | -1.32         | 0.93      | 13  |
| BROKEN BOW   | 1162 | 9  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 3.99    | 31      | -0.9          | 2.1       | 14  |
| BROKEN BOW D | 1168 | 9  | 54.4      | 31      | 2.2           | 85       | 23  | 27       | 14  | 332.5        | -72.5         | 2.5          | -6.5          | 3.872   | 31      | -1.44         | 1.88      | 12  |
| CARNASAW     | 1499 | 9  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 3.911   | 31      | -1.35         | 1.97      | 13  |
| CARTER TWR   | 1544 | 9  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 4.93    | 31      | 0.07          | 2.1       | 13  |
| FANSHAWE     | 3065 | 9  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 3.21    | 31      | -1.12         | 1.54      | 13  |
| HEAVENER     | 4008 | 9  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 3.82    | 31      | -0.26         | 1.45      | 2   |
| HUGO         | 4384 | 9  | 57.2      | 31      | 1.7           | 85       | 21  | 29       | 15  | 252          | -64           | 10           | -11           | 5.22    | 31      | 1.03          | 1.35      | 13  |
| IDABEL       | 4451 | 9  | 54.2      | 31      | 0.8           | 85       | 22  | 26       | 15  | 336.5        | -34.5         | 2.5          | -9.5          | 5.211   | 31      | 0.36          | 1.87      | 13  |
| PINE CREEK   | 7080 | 9  | 53.6      | 22      | *****         | 86       | 24  | 24       | 17  | 252.5        | *****         | 1            | *****         | 4.741   | 31      | *****         | 2.05      | 13  |
| POTEAU       | 7254 | 9  | 52.9      | 31      | *****         | 86       | 21  | 27       | 5   | 378.5        | *****         | 2            | *****         | 4.111   | 31      | *****         | 1.32      | 2   |
| SMITHVILLE   | 8285 | 9  | 51.1      | 30      | -0.7          | 83       | 22  | 23       | 6   | 417.5        | -4.5          | 0            | -13           | 5.274   | 31      | -0.06         | 2.25      | 13  |
| SPIRO        | 8416 | 9  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 4.061   | 31      | -0.25         | 1.01      | 13  |
| TUSKAHOMA    | 9023 | 9  | 56.5      | 31      | 2.5           | 89       | 21  | 25       | 15  | 276.5        | -82.5         | 13           | -5            | 3.35    | 31      | -0.78         | 1.49      | 13  |
| VALLIANT     | 9118 | 9  | *****     | 0       | *****         | ****     | 0   | ****     | 0   | *****        | *****         | *****        | *****         | 4.371   | 31      | -0.09         | 1.91      | 13  |
| WILBURTON    | 9634 | 9  | 55.2      | 31      | 2.5           | 87       | 21  | 26       | 6   | 306.5        | -89.5         | 3.5          | -10.5         | 3.65    | 31      | -0.52         | 1.07      | 12  |

MARCH 1997 CLIMATE DIVISION SUMMARY

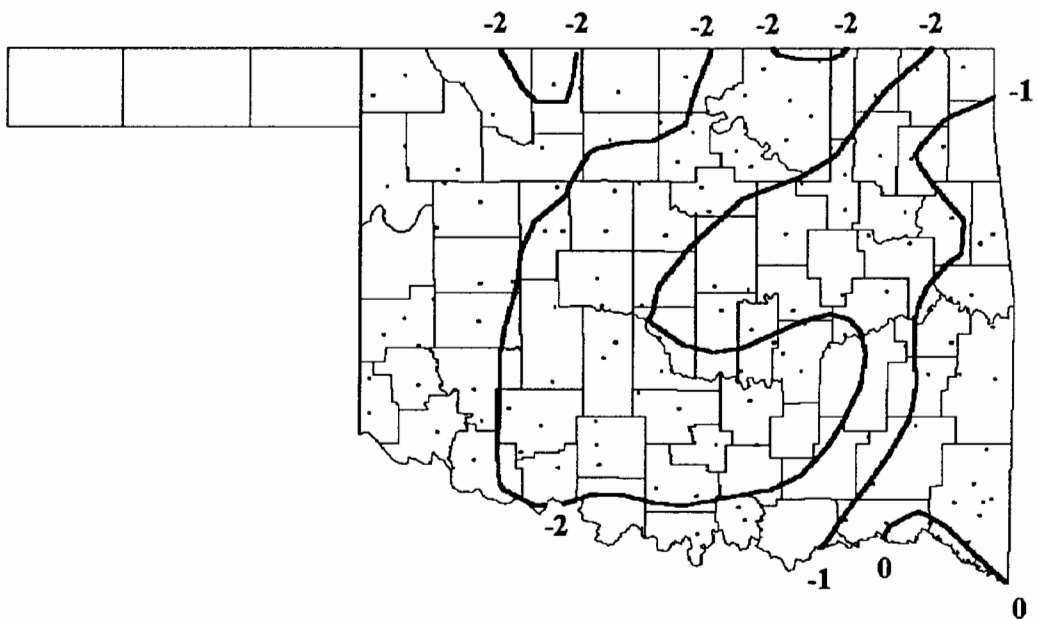
| CD | MEAN TEMP | NUM STA | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAYS | DEV FROM NORM | COOL DEG DAYS | DEV FROM NORM | TOT PPT | NUM STA | DEV FROM NORM | MAX 24-HR | DAY |
|----|-----------|---------|---------------|----------|-----|----------|-----|---------------|---------------|---------------|---------------|---------|---------|---------------|-----------|-----|
| 1  | 49.6      | 7       | 4.1           | 89       | 17  | 14       | 16  | 473.5         | -132.5        | 1.2           | -1.2          | 0.02    | 9       | -1.27         | 0.19      | 25  |
| 2  | 51.3      | 13      | 3             | 91       | 21  | 15       | 15  | 424.7         | -100.7        | 3.6           | -4            | 0.52    | 22      | -1.75         | 0.92      | 25  |
| 3  | 51.6      | 14      | 2.1           | 95       | 21  | 10       | 29  | 416           | -73.5         | 3.5           | -4.8          | 1.55    | 26      | -1.87         | 1.38      | 9   |
| 4  | 52.5      | 8       | 3.1           | 92       | 21  | 18       | 15  | 381.8         | -107.6        | 3             | -3.7          | 0.04    | 17      | -1.88         | 0.18      | 25  |
| 5  | 53.4      | 12      | 2.1           | 97       | 21  | 20       | 15  | 365           | -70.1         | 7.3           | -3.8          | 0.87    | 34      | -2            | 1.55      | 24  |
| 6  | 53.7      | 10      | 1.9           | 91       | 22  | 23       | 15  | 353.4         | -70.3         | 3.8           | -9.4          | 2.31    | 26      | -1.56         | 1.5       | 9   |
| 7  | 54.7      | 12      | 2.7           | 98       | 21  | 23       | 15  | 326.2         | -86.1         | 9.3           | -2.1          | 0.07    | 21      | -1.88         | 0.2       | 25  |
| 8  | 55.2      | 13      | 1.9           | 91       | 22  | 25       | 6   | 309.1         | -68.9         | 7.1           | -9.9          | 1.17    | 29      | -2.05         | 1.59      | 25  |
| 9  | 54.7      | 10      | 1.1           | 89       | 21  | 23       | 6   | 322.9         | -46.3         | 4.9           | -10.9         | 4.09    | 20      | -0.44         | 2.25      | 13  |

MESONET MONTHLY SUMMARY FOR MARCH 1997

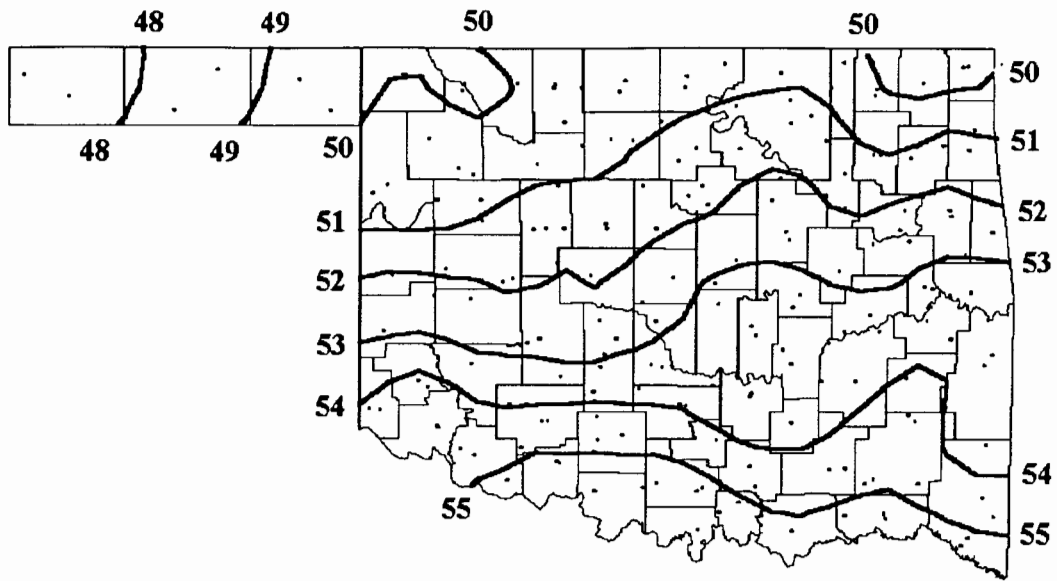
|               | MEAN MAX |      | MIN |      | HDD |     | CDD |       | TOT MAX |     |               | NAME  | MEAN MAX |     | MIN  |     | HDD  |       | CDD   |       | TOT MAX |      |      |     |      |      |     |     |       |     |
|---------------|----------|------|-----|------|-----|-----|-----|-------|---------|-----|---------------|-------|----------|-----|------|-----|------|-------|-------|-------|---------|------|------|-----|------|------|-----|-----|-------|-----|
|               | TEMP     | TEMP | DAY | TEMP | DAY |     |     | PPT   | 24-HR   | DAY | TEMP          |       | TEMP     | DAY | TEMP | DAY |      |       | PPT   | 24-HR | DAY     | TEMP | TEMP | DAY | TEMP | TEMP | DAY | PPT | 24-HR | DAY |
| PANHANDLE     |          |      |     |      |     |     |     |       |         |     |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| ARNETT        | 51.1     | 88   | 17  | 19   | 2   | 441 | 9   | .02   | .02     | 1   | GOODWELL      | 48.1  | 84       | 17  | 16   | 2   | 522  | 0     | .00   | .00   | 1       |      |      |     |      |      |     |     |       |     |
| BEAVER        | 49.6     | 87   | 20  | 16   | 15  | 478 | 1   | .00   | .00     | 1   | HOOKER        | 47.7  | 86       | 17  | 15   | 15  | 535  | 0     | .00   | .00   | 1       |      |      |     |      |      |     |     |       |     |
| BOISE CITY    | 46.9     | 82   | 20  | 16   | 15  | 561 | 0   | .14   | .12     | 24  | KENTON        | 48.1  | 82       | 20  | 18   | 15  | 523  | 0     | .19   | .19   | 24      |      |      |     |      |      |     |     |       |     |
| BUFFALO       | 48.9     | 88   | 17  | 17   | 15  | 504 | 4   | .05   | .05     | 27  | SLAPOUT       | 49.9  | 88       | 17  | 14   | 15  | 470  | 3     | .01   | .01   | 27      |      |      |     |      |      |     |     |       |     |
| NORTH CENTRAL |          |      |     |      |     |     |     |       |         |     |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| ALVA          | 49.4     | 84   | 20  | 19   | 15  | 484 | 0   | .60   | .44     | 24  | MAY RANCH     | 50.6  | 85       | 20  | 19   | 15  | 451  | 4     | .51   | .44   | 27      |      |      |     |      |      |     |     |       |     |
| BLACKWELL     | 49.9     | 84   | 21  | 22   | 15  | 469 | 0   | .63   | .44     | 24  | MEDFORD       | 49.1  | 82       | 21  | 22   | 15  | 494  | 0     | 1.12  | .79   | 24      |      |      |     |      |      |     |     |       |     |
| BRECKENRIDGE  | 49.5     | 86   | 21  | 21   | 15  | 481 | 2   | .89   | .78     | 24  | NEWKIRK       | 50.1  | 85       | 21  | 21   | 15  | 466  | 3     | .48   | .29   | 24      |      |      |     |      |      |     |     |       |     |
| CHEROKEE      | 49.5     | 84   | 21  | 24   | 14  | 481 | 2   | .23   | .16     | 27  | RED ROCK      | 51.4  | 91       | 21  | 23   | 15  | 432  | 9     | .65   | .52   | 24      |      |      |     |      |      |     |     |       |     |
| FAIRVIEW      | 50.7     | 87   | 21  | 19   | 15  | 448 | 5   | .07   | .05     | 24  | SEILING       | 49.8  | 87       | 21  | 18   | 15  | 473  | 2     | .09   | .05   | 27      |      |      |     |      |      |     |     |       |     |
| FREEDOM       | 50.9     | 87   | 20  | 18   | 15  | 448 | 10  | .14   | .08     | 1   | WOODWARD      | 51.9  | 87       | 21  | 17   | 15  | 415  | 8     | .08   | .08   | 1       |      |      |     |      |      |     |     |       |     |
| LAHOMA        | 49.6     | 85   | 21  | 21   | 15  | 477 | 0   | .55   | .41     | 24  |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| NORTHEAST     |          |      |     |      |     |     |     |       |         |     |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| BIXBY         | 52.0     | 91   | 21  | 27   | 15  | 406 | 4   | 2.38  | .91     | 9   | NOWATA        | 48.8  | 90       | 21  | 24   | 16  | 504  | 3     | 1.34  | .34   | 24      |      |      |     |      |      |     |     |       |     |
| BURBANK       | 50.2     | 89   | 21  | 21   | 15  | 462 | 3   | .63   | .54     | 24  | PAWNEE        | 51.6  | 93       | 21  | 23   | 15  | 423  | 8     | 1.22  | .49   | 24      |      |      |     |      |      |     |     |       |     |
| CLAREMORE     | 51.2     | 92   | 21  | 25   | 15  | 432 | 4   | 1.48  | 1.04    | 25  | PRYOR         | 50.5  | 88       | 21  | 25   | 15  | 455  | 4     | 1.99  | .88   | 25      |      |      |     |      |      |     |     |       |     |
| COPAN         | 49.8     | 90   | 21  | 24   | 14  | 476 | 4   | ***** | *****   | 0   | SKIATOOK      | 51.8  | 92       | 21  | 24   | 14  | 418  | 9     | 1.27  | .41   | 25      |      |      |     |      |      |     |     |       |     |
| FORAKER       | 50.1     | 90   | 21  | 21   | 15  | 466 | 5   | 1.19  | .51     | 18  | TULLAHASSEE   | 52.7  | 87       | 21  | 26   | 15  | 389  | 7     | 1.88  | .57   | 25      |      |      |     |      |      |     |     |       |     |
| JAY           | 49.7     | 86   | 21  | 24   | 15  | 480 | 6   | 2.71  | .80     | 13  | VINITA        | 48.7  | 87       | 21  | 24   | 15  | 506  | 1     | 1.86  | 1.01  | 25      |      |      |     |      |      |     |     |       |     |
| MIAMI         | 49.4     | 84   | 21  | 25   | 15  | 488 | 4   | 2.55  | 1.06    | 25  | WYNONA        | 51.0  | 92       | 21  | 22   | 15  | 444  | 8     | .97   | .43   | 24      |      |      |     |      |      |     |     |       |     |
| WEST CENTRAL  |          |      |     |      |     |     |     |       |         |     |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| BESSIE        | 52.5     | 89   | 21  | 22   | 15  | 393 | 6   | .02   | .01     | 1   | PUTNAM        | 51.0  | 89       | 21  | 19   | 15  | 439  | 6     | .01   | .01   | 1       |      |      |     |      |      |     |     |       |     |
| BUTLER        | 51.5     | 90   | 21  | 24   | 15  | 427 | 8   | .01   | .01     | 1   | RETROP        | 52.8  | 91       | 21  | 24   | 15  | 384  | 7     | .03   | .03   | 9       |      |      |     |      |      |     |     |       |     |
| CAMARGO       | 49.5     | 87   | 20  | 19   | 6   | 484 | 2   | .02   | .02     | 1   | WATONGA       | 51.2  | 87       | 21  | 20   | 15  | 433  | 6     | .04   | .02   | 1       |      |      |     |      |      |     |     |       |     |
| CHEYENNE      | 52.8     | 88   | 21  | 22   | 15  | 389 | 10  | .01   | .01     | 8   | WEATHERFORD   | 50.6  | 86       | 21  | 21   | 15  | 446  | 1     | .04   | .03   | 8       |      |      |     |      |      |     |     |       |     |
| ERICK         | 51.5     | 91   | 21  | 22   | 15  | 423 | 3   | .04   | .04     | 8   |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| CENTRAL       |          |      |     |      |     |     |     |       |         |     |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| ACME          | 53.2     | 91   | 21  | 25   | 15  | 377 | 10  | .45   | .18     | 24  | MINCO         | 51.8  | 89       | 21  | 22   | 15  | 413  | 4     | .34   | .11   | 1       |      |      |     |      |      |     |     |       |     |
| BOWLEGS       | 52.7     | 90   | 21  | 27   | 15  | 391 | 8   | 1.15  | .33     | 25  | NINNEKAH      | 52.7  | 89       | 21  | 26   | 15  | 388  | 6     | .21   | .07   | 24      |      |      |     |      |      |     |     |       |     |
| BRISTOW       | 51.7     | 91   | 21  | 24   | 15  | 417 | 6   | 2.34  | .77     | 25  | NORMAN        | 52.5  | 90       | 21  | 26   | 15  | 395  | 9     | .91   | .53   | 25      |      |      |     |      |      |     |     |       |     |
| CHANDLER      | 52.8     | 92   | 21  | 25   | 15  | 388 | 10  | 1.43  | .54     | 25  | OILTON        | 50.9  | 93       | 21  | 22   | 15  | 450  | 12    | 1.00  | .48   | 25      |      |      |     |      |      |     |     |       |     |
| CHICKASHA     | 51.1     | 88   | 21  | 23   | 6   | 434 | 3   | .41   | .20     | 25  | OKEMAH        | 52.4  | 89       | 21  | 26   | 15  | 396  | 4     | 1.77  | .86   | 25      |      |      |     |      |      |     |     |       |     |
| EL RENO       | 50.7     | 91   | 21  | 20   | 15  | 449 | 5   | .13   | .07     | 24  | PERKINS       | 51.0  | 91       | 21  | 22   | 15  | 440  | 5     | .49   | .25   | 24      |      |      |     |      |      |     |     |       |     |
| GUTHRIE       | 52.1     | 92   | 21  | 23   | 15  | 407 | 8   | .49   | .29     | 24  | SHAWNEE       | 52.6  | 90       | 21  | 25   | 15  | 393  | 8     | 1.41  | 1.07  | 25      |      |      |     |      |      |     |     |       |     |
| KINGFISHER    | 50.5     | 90   | 21  | 21   | 15  | 453 | 3   | .30   | .17     | 24  | SPENCER       | 53.2  | 93       | 21  | 24   | 15  | 377  | 13    | .73   | .51   | 25      |      |      |     |      |      |     |     |       |     |
| MARENA        | 52.1     | 93   | 21  | 22   | 15  | 409 | 9   | .85   | .66     | 24  | STILLWATER    | 50.0  | 92       | 21  | 24   | 15  | 471  | 6     | .92   | .69   | 24      |      |      |     |      |      |     |     |       |     |
| MARSHALL      | 50.2     | 90   | 21  | 22   | 15  | 459 | 2   | .18   | .07     | 29  | WASHINGTON    | 53.1  | 91       | 21  | 26   | 15  | 373  | 5     | .44   | .35   | 9       |      |      |     |      |      |     |     |       |     |
| EAST CENTRAL  |          |      |     |      |     |     |     |       |         |     |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| CALVIN        | 52.5     | 89   | 21  | 27   | 6   | 388 | 1   | .77   | .27     | 29  | SALLISAW      | ***** | ***      | 0   | ***  | 0   | **** | ***** | ***** | **    |         |      |      |     |      |      |     |     |       |     |
| COOKSON       | 52.1     | 88   | 21  | 23   | 15  | 406 | 7   | 3.32  | 1.02    | 25  | STIGLER       | 53.1  | 87       | 21  | 27   | 15  | 370  | 0     | 2.69  | 1.00  | 25      |      |      |     |      |      |     |     |       |     |
| EUFAULA       | 53.3     | 87   | 21  | 29   | 15  | 369 | 6   | 1.70  | .74     | 25  | STUART        | 53.4  | 88       | 21  | 27   | 15  | 364  | 4     | 1.09  | .29   | 13      |      |      |     |      |      |     |     |       |     |
| HASKELL       | 51.7     | 88   | 21  | 24   | 15  | 414 | 2   | 1.45  | .71     | 25  | TAHLEQUAH     | 50.8  | 87       | 21  | 24   | 15  | 445  | 6     | 2.88  | .79   | 9       |      |      |     |      |      |     |     |       |     |
| MCALESTER     | 53.3     | 88   | 21  | 26   | 6   | 369 | 5   | 2.54  | .77     | 25  | WEBBERS FALLS | 53.3  | 89       | 21  | 28   | 6   | 356  | 5     | 3.44  | 1.31  | 13      |      |      |     |      |      |     |     |       |     |
| OKMULGEE      | 52.0     | 91   | 21  | 25   | 15  | 408 | 6   | 1.34  | .53     | 25  | WESTVILLE     | 50.9  | 84       | 21  | 24   | 15  | 441  | 4     | 3.63  | 1.17  | 25      |      |      |     |      |      |     |     |       |     |
| SOUTHWEST     |          |      |     |      |     |     |     |       |         |     |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| ALTUS         | 54.1     | 97   | 21  | 26   | 15  | 348 | 9   | .01   | .01     | 8   | HOLLIS        | 54.0  | 96       | 21  | 25   | 15  | 349  | 9     | .02   | .02   | 27      |      |      |     |      |      |     |     |       |     |
| APACHE        | 52.4     | 88   | 21  | 23   | 15  | 395 | 4   | .10   | .05     | 25  | MANGUM        | 52.6  | 94       | 21  | 23   | 15  | 389  | 4     | .07   | .03   | 9       |      |      |     |      |      |     |     |       |     |
| FORT COBB     | 52.2     | 91   | 21  | 27   | 15  | 398 | 2   | .13   | .10     | 9   | MEDICINE PARK | 55.0  | 92       | 21  | 27   | 15  | 323  | 12    | .18   | .10   | 1       |      |      |     |      |      |     |     |       |     |
| GRANDFIELD    | 54.7     | 95   | 21  | 25   | 15  | 329 | 8   | .08   | .02     | 2   | TIPTON        | 54.1  | 95       | 21  | 28   | 6   | 345  | 6     | .06   | .03   | 8       |      |      |     |      |      |     |     |       |     |
| HINTON        | 51.8     | 88   | 21  | 23   | 15  | 414 | 5   | .17   | .08     | 9   | WALTERS       | 54.6  | 93       | 21  | 26   | 15  | 330  | 6     | .18   | .11   | 8       |      |      |     |      |      |     |     |       |     |
| HOBART        | 51.8     | 93   | 21  | 23   | 15  | 413 | 5   | .03   | .01     | 9   |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| SOUTH CENTRAL |          |      |     |      |     |     |     |       |         |     |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| ADA           | 53.5     | 92   | 21  | 27   | 15  | 364 | 8   | .98   | .36     | 29  | LANE          | 53.7  | 86       | 21  | 27   | 6   | 353  | 2     | 2.51  | .92   | 25      |      |      |     |      |      |     |     |       |     |
| ARDMORE       | 54.9     | 89   | 21  | 27   | 15  | 319 | 5   | .80   | .46     | 2   | MADILL        | 55.4  | 87       | 21  | 28   | 6   | 304  | 5     | 1.29  | .56   | 25      |      |      |     |      |      |     |     |       |     |
| BURNEYVILLE   | 55.0     | 89   | 21  | 26   | 6   | 316 | 7   | 1.43  | .62     | 25  | PAULS VALLEY  | 54.1  | 91       | 21  | 27   | 15  | 344  | 7     | .26   | .10   | 12      |      |      |     |      |      |     |     |       |     |
| BYARS         | 53.9     | 89   | 21  | 27   | 15  | 350 | 5   | .90   | .44     | 29  | RINGLING      | 55.3  | 91       | 21  | 28   | 6   | 309  | 7     | .73   | .19   | 12      |      |      |     |      |      |     |     |       |     |
| CENTRAHOMA    | 53.2     | 89   | 21  | 25   | 6   | 368 | 3   | 1.49  | .51     | 25  | SULPHUR       | 53.3  | 91       | 21  | 26   | 6   | 367  | 4     | .63   | .29   | 2       |      |      |     |      |      |     |     |       |     |
| DURANT        | 55.3     | 87   | 21  | 30   | 15  | 305 | 4   | 2.94  | 1.17    | 25  | TISHOMINGO    | 53.6  | 89       | 21  | 27   | 6   | 356  | 2     | .80   | .31   | 25      |      |      |     |      |      |     |     |       |     |
| KETCHUM RANCH | 54.2     | 90   | 21  | 28   | 15  | 344 | 8   | .32   | .09     | 25  | WAURIKA       | 55.4  | 91       | 21  | 27   | 15  | 303  | 6     | .61   | .19   | 8       |      |      |     |      |      |     |     |       |     |
| SOUTHEAST     |          |      |     |      |     |     |     |       |         |     |               |       |          |     |      |     |      |       |       |       |         |      |      |     |      |      |     |     |       |     |
| ANTLERS       | 53.5     | 88   | 21  | 22   | 6   | 359 | 4   | 2.94  | .91     | 25  | IDABEL        | 56.2  | 83       | 21  | 29   | 15  | 276  | 3     | 5.25  | 1.37  | 12      |      |      |     |      |      |     |     |       |     |
| BROKEN BOW    | 56.1     | 85   | 21  | 28   | 15  | 278 | 3   | 4.65  | 1.63    | 12  | MT HERMAN     | 54.4  | 82       | 21  | 27   | 6   | 332  | 2     | 3.84  | 1.24  | 12      |      |      |     |      |      |     |     |       |     |
| CLAYTON       | 54.2     | 88   | 21  | 25   | 6   | 342 | 8   | 2.57  | .92     | 12  | TALIHINA      | 53.8  | 85       | 21  | 26   | 6   | 351  | 4     | 3.67  | 1.02  | 12      |      |      |     |      |      |     |     |       |     |
| CLOUDY        | 54.0     | 84   | 21  | 27   | 6   | 344 | 3   | 5.26  | 1.34    | 12  | WILBURTON     | 53.3  | 88       | 21  | 26   | 6   | 364  | 2     | 2.53  | .91   | 25      |      |      |     |      |      |     |     |       |     |
| HUGO          | 55.6     | 85   | 21  | 28   | 15  | 293 | 3   | 5.44  | 1.88    | 1   | WISTER        | 53.0  | 85       | 21  | 26   | 6   | 373  | 0     | 3.64  | .82   | 1       |      |      |     |      |      |     |     |       |     |



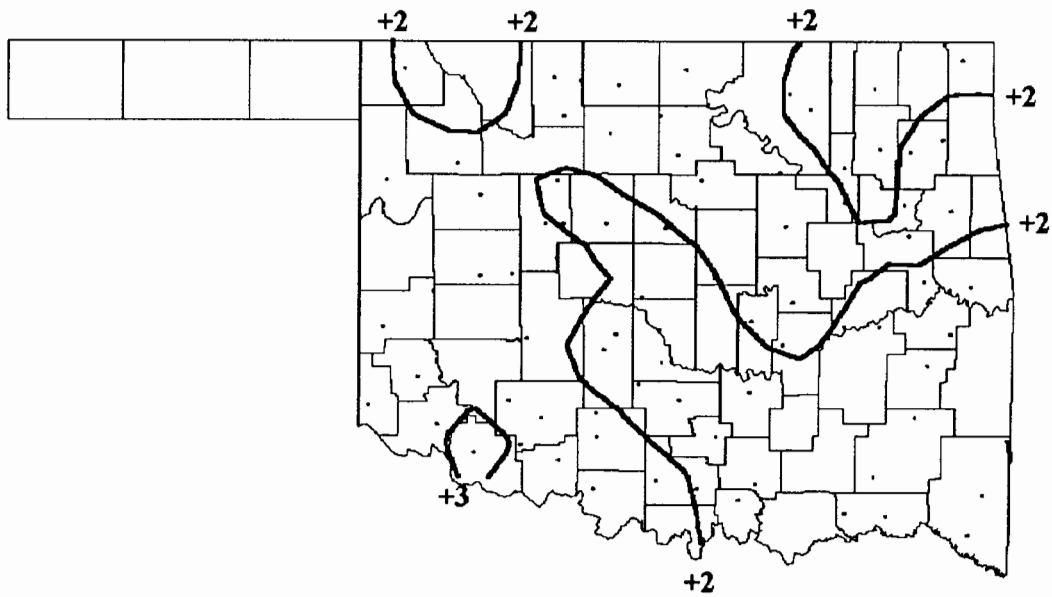
**MARCH 1997 TOTAL PRECIPITATION  
(INCHES)**



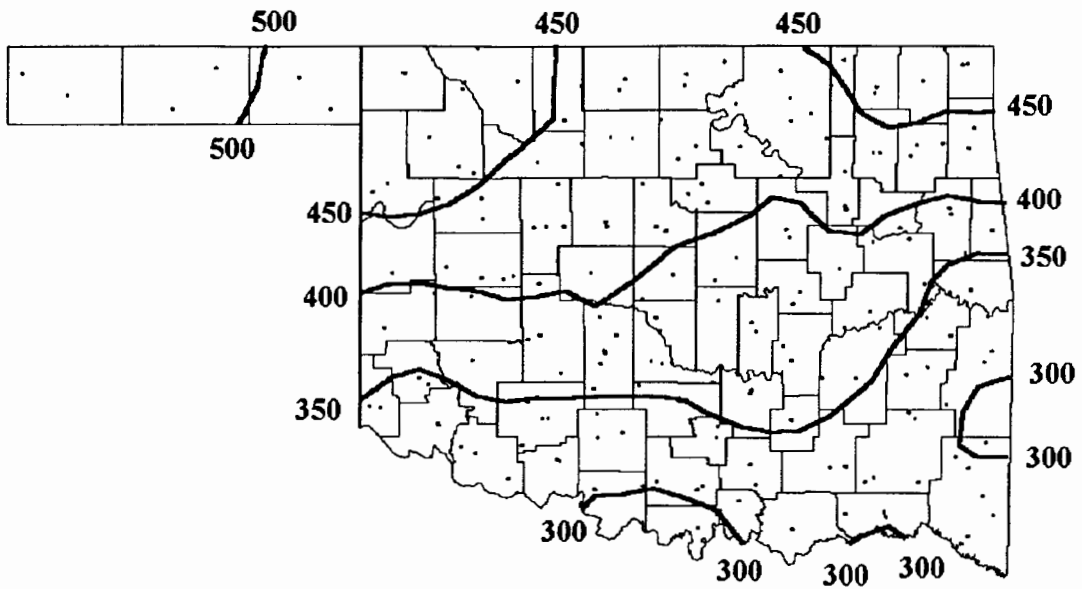
**MARCH 1997 DEPARTURE FROM NORMAL PRECIPITATION  
(INCHES)**



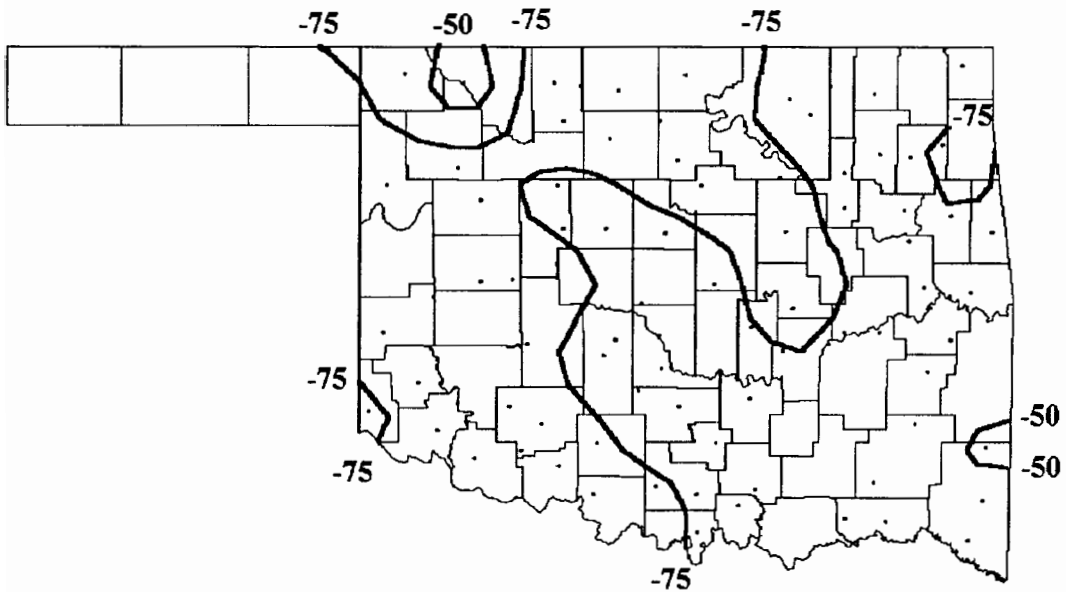
**MARCH 1997 AVERAGE MONTHLY TEMPERATURE  
(°F)**



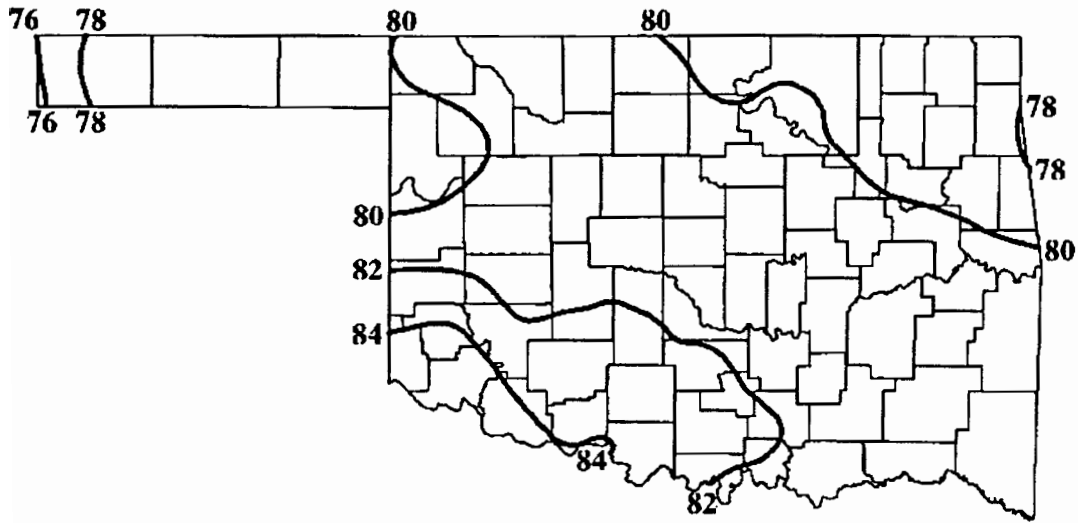
**MARCH 1997 DEPARTURE FROM NORMAL TEMPERATURE  
(°F)**



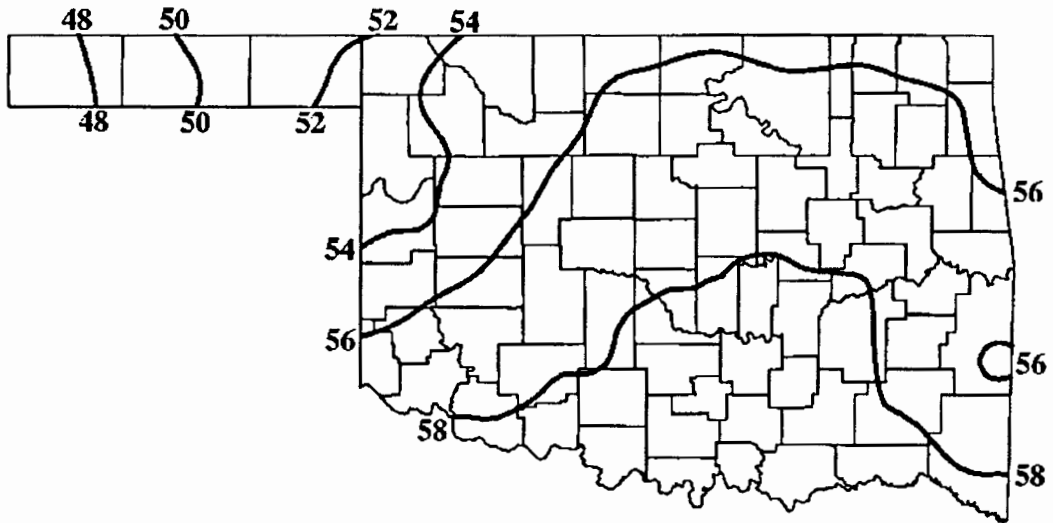
**MARCH 1997 ACCUMULATED HEATING DEGREE DAYS  
(°F)**



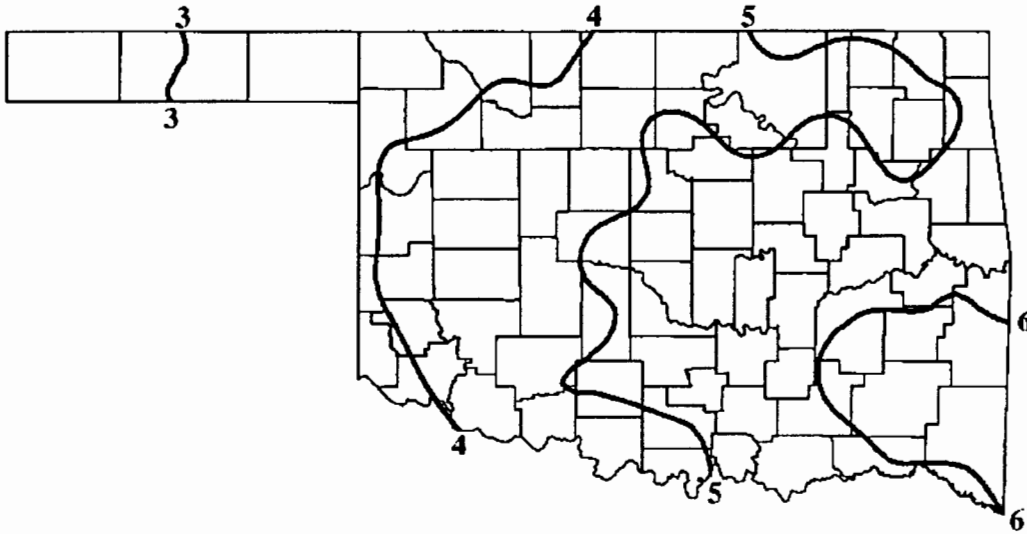
**MARCH 1997 DEPARTURE FROM NORMAL HEATING DEGREE DAYS  
(°F)**



**MAY NORMAL DAILY MAXIMUM TEMPERATURE (°F)**



**MAY NORMAL DAILY MINIMUM TEMPERATURE (°F)**



**MAY NORMAL MONTHLY PRECIPITATION (inches)**

**OUTLOOK FOR MAY THROUGH JULY 1997**

BASED ON SEASONAL OUTLOOKS PROVIDED BY THE CLIMATE PREDICTION CENTER

**TEMPERATURE: Near Normal Statewide**

**PRECIPITATION: Near Normal Statewide**





Deviation from Normal Cooling Degree Days: 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.

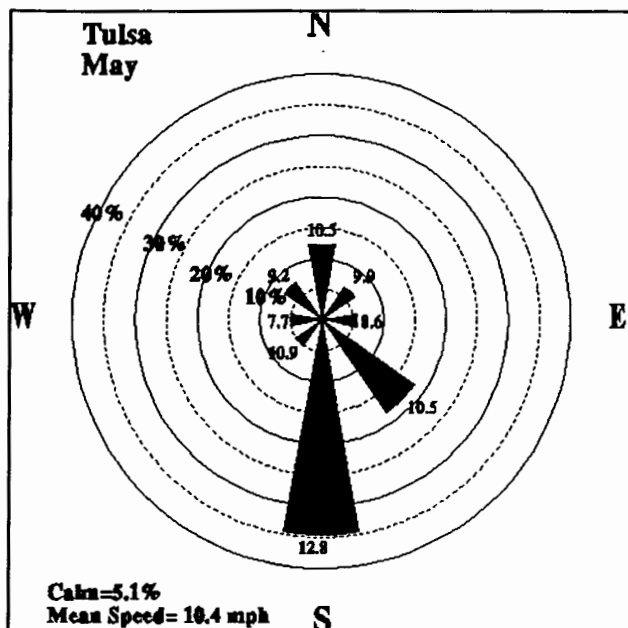
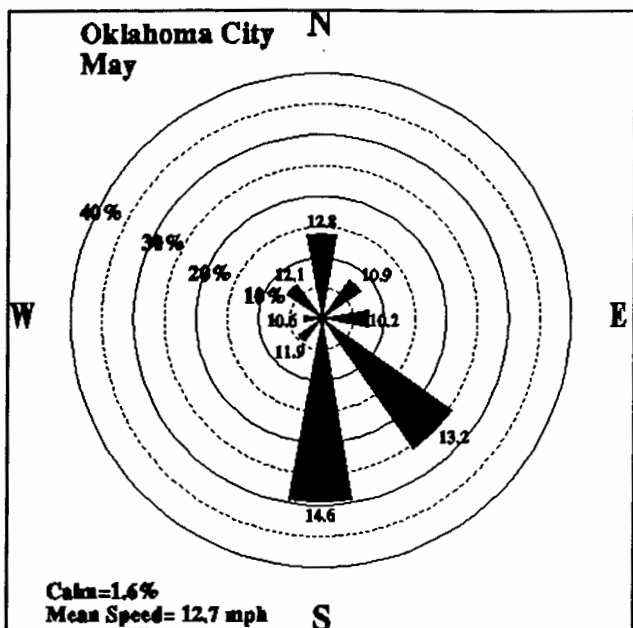
Total Precipitation: Often incorrectly referred to as mean precipitation, this value is the sum of all precipitation reported during the month at a station. If snow occurred, it is to be melted and its water equivalent recorded.

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: 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 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.

The second set of tables contain similar information but are the average or extreme over all the stations reporting in each climate division.



**May 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.

**MAY 1997 SUNRISE AND SUNSET**

**OKLAHOMA CITY**

| DATE    | SUNRISE | SUNSET     | DAYLIGHT       |
|---------|---------|------------|----------------|
| 97 5 1  | 6:40AM  | 8:14PM CDT | 13 hrs 34 mins |
| 97 5 2  | 6:39AM  | 8:15PM CDT | 13 hrs 36 mins |
| 97 5 3  | 6:38AM  | 8:16PM CDT | 13 hrs 38 mins |
| 97 5 4  | 6:37AM  | 8:17PM CDT | 13 hrs 40 mins |
| 97 5 5  | 6:36AM  | 8:18PM CDT | 13 hrs 41 mins |
| 97 5 6  | 6:35AM  | 8:18PM CDT | 13 hrs 43 mins |
| 97 5 7  | 6:34AM  | 8:19PM CDT | 13 hrs 45 mins |
| 97 5 8  | 6:33AM  | 8:20PM CDT | 13 hrs 47 mins |
| 97 5 9  | 6:33AM  | 8:21PM CDT | 13 hrs 48 mins |
| 97 5 10 | 6:32AM  | 8:22PM CDT | 13 hrs 50 mins |
| 97 5 11 | 6:31AM  | 8:22PM CDT | 13 hrs 52 mins |
| 97 5 12 | 6:30AM  | 8:23PM CDT | 13 hrs 53 mins |
| 97 5 13 | 6:29AM  | 8:24PM CDT | 13 hrs 55 mins |
| 97 5 14 | 6:28AM  | 8:25PM CDT | 13 hrs 56 mins |
| 97 5 15 | 6:28AM  | 8:25PM CDT | 13 hrs 58 mins |
| 97 5 16 | 6:27AM  | 8:26PM CDT | 13 hrs 59 mins |
| 97 5 17 | 6:26AM  | 8:27PM CDT | 14 hrs 1 mins  |
| 97 5 18 | 6:26AM  | 8:28PM CDT | 14 hrs 2 mins  |
| 97 5 19 | 6:25AM  | 8:28PM CDT | 14 hrs 4 mins  |
| 97 5 20 | 6:24AM  | 8:29PM CDT | 14 hrs 5 mins  |
| 97 5 21 | 6:24AM  | 8:30PM CDT | 14 hrs 6 mins  |
| 97 5 22 | 6:23AM  | 8:31PM CDT | 14 hrs 7 mins  |
| 97 5 23 | 6:23AM  | 8:31PM CDT | 14 hrs 9 mins  |
| 97 5 24 | 6:22AM  | 8:32PM CDT | 14 hrs 10 mins |
| 97 5 25 | 6:22AM  | 8:33PM CDT | 14 hrs 11 mins |
| 97 5 26 | 6:21AM  | 8:33PM CDT | 14 hrs 12 mins |
| 97 5 27 | 6:21AM  | 8:34PM CDT | 14 hrs 13 mins |
| 97 5 28 | 6:20AM  | 8:35PM CDT | 14 hrs 15 mins |
| 97 5 29 | 6:20AM  | 8:35PM CDT | 14 hrs 16 mins |
| 97 5 30 | 6:19AM  | 8:36PM CDT | 14 hrs 17 mins |
| 97 5 31 | 6:19AM  | 8:37PM CDT | 14 hrs 18 mins |

**TULSA**

| DATE    | SUNRISE | SUNSET     | DAYLIGHT       |
|---------|---------|------------|----------------|
| 97 5 1  | 6:32AM  | 8: 9PM CDT | 13 hrs 37 mins |
| 97 5 2  | 6:31AM  | 8:10PM CDT | 13 hrs 39 mins |
| 97 5 3  | 6:30AM  | 8:11PM CDT | 13 hrs 41 mins |
| 97 5 4  | 6:29AM  | 8:11PM CDT | 13 hrs 42 mins |
| 97 5 5  | 6:28AM  | 8:12PM CDT | 13 hrs 44 mins |
| 97 5 6  | 6:27AM  | 8:13PM CDT | 13 hrs 46 mins |
| 97 5 7  | 6:26AM  | 8:14PM CDT | 13 hrs 48 mins |
| 97 5 8  | 6:25AM  | 8:15PM CDT | 13 hrs 50 mins |
| 97 5 9  | 6:24AM  | 8:15PM CDT | 13 hrs 51 mins |
| 97 5 10 | 6:23AM  | 8:16PM CDT | 13 hrs 53 mins |
| 97 5 11 | 6:22AM  | 8:17PM CDT | 13 hrs 55 mins |
| 97 5 12 | 6:22AM  | 8:18PM CDT | 13 hrs 56 mins |
| 97 5 13 | 6:21AM  | 8:19PM CDT | 13 hrs 58 mins |
| 97 5 14 | 6:20AM  | 8:19PM CDT | 14 hrs 0 mins  |
| 97 5 15 | 6:19AM  | 8:20PM CDT | 14 hrs 1 mins  |
| 97 5 16 | 6:18AM  | 8:21PM CDT | 14 hrs 3 mins  |
| 97 5 17 | 6:18AM  | 8:22PM CDT | 14 hrs 4 mins  |
| 97 5 18 | 6:17AM  | 8:23PM CDT | 14 hrs 6 mins  |
| 97 5 19 | 6:16AM  | 8:23PM CDT | 14 hrs 7 mins  |
| 97 5 20 | 6:16AM  | 8:24PM CDT | 14 hrs 8 mins  |
| 97 5 21 | 6:15AM  | 8:25PM CDT | 14 hrs 10 mins |
| 97 5 22 | 6:14AM  | 8:26PM CDT | 14 hrs 11 mins |
| 97 5 23 | 6:14AM  | 8:26PM CDT | 14 hrs 12 mins |
| 97 5 24 | 6:13AM  | 8:27PM CDT | 14 hrs 14 mins |
| 97 5 25 | 6:13AM  | 8:28PM CDT | 14 hrs 15 mins |
| 97 5 26 | 6:12AM  | 8:28PM CDT | 14 hrs 16 mins |
| 97 5 27 | 6:12AM  | 8:29PM CDT | 14 hrs 17 mins |
| 97 5 28 | 6:11AM  | 8:30PM CDT | 14 hrs 18 mins |
| 97 5 29 | 6:11AM  | 8:31PM CDT | 14 hrs 20 mins |
| 97 5 30 | 6:11AM  | 8:31PM CDT | 14 hrs 21 mins |
| 97 5 31 | 6:10AM  | 8:32PM CDT | 14 hrs 22 mins |



TULSA CLIMATE CALENDAR

MAY

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1991. Temperature extremes are for the period 1905-1992; precipitation extremes are for the period 1948-1992.

| Normal                            | 1 Actual                                  | Normal                            | 2 Actual                                  | Normal                            | 3 Actual                                  | Normal                            | 4 Actual                                  | Normal                            | 5 Actual                                  | Normal                            | 6 Actual                                  | Normal                            | 7 Actual                                  |
|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|
| 74.0<br>54.0<br>17<br>3<br>3<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 75.0<br>53.0<br>16<br>2<br>2<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 76.0<br>54.0<br>12<br>3<br>3<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 78.0<br>56.0<br>10<br>2<br>2<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 78.0<br>58.0<br>18<br>1<br>1<br>7 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 78.0<br>58.0<br>16<br>2<br>2<br>5 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 79.0<br>56.0<br>14<br>2<br>2<br>4 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 82.0<br>62.0<br>11<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>18<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>20<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>18<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>23<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>18<br>1<br>1<br>7 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 82.0<br>61.0<br>10<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 83.0<br>62.0<br>09<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>15<br>1<br>1<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>10<br>0<br>0<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>62.0<br>18<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>62.0<br>23<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>61.0<br>18<br>0<br>0<br>7 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>61.0<br>19<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 82.0<br>62.0<br>11<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>18<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>20<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>18<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>23<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>18<br>1<br>1<br>7 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 82.0<br>61.0<br>10<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 83.0<br>62.0<br>09<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>15<br>1<br>1<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>10<br>0<br>0<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>62.0<br>18<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>62.0<br>23<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>61.0<br>18<br>0<br>0<br>7 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>61.0<br>19<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |

| Normal                            | 22 Actual                                 | Normal                            | 23 Actual                                 | Normal                            | 24 Actual                                 | Normal                            | 25 Actual                                 | Normal                            | 26 Actual                                 | Normal                            | 27 Actual                                 | Normal                            | 28 Actual                                 |
|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|
| 79.0<br>57.0<br>10<br>1<br>1<br>5 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>59.0<br>10<br>4<br>4<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>59.0<br>18<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>59.0<br>23<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>59.0<br>19<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>59.0<br>19<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 82.0<br>61.0<br>22<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 82.0<br>62.0<br>11<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>18<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>20<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>18<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>23<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>18<br>1<br>1<br>7 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 82.0<br>61.0<br>10<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 83.0<br>62.0<br>09<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>15<br>1<br>1<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>10<br>0<br>0<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>62.0<br>18<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>62.0<br>23<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>61.0<br>18<br>0<br>0<br>7 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>61.0<br>19<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 82.0<br>62.0<br>11<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>18<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>20<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>18<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>23<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>60.0<br>18<br>1<br>1<br>7 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 82.0<br>61.0<br>10<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 83.0<br>62.0<br>09<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>15<br>1<br>1<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>10<br>0<br>0<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>62.0<br>18<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>62.0<br>23<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>61.0<br>18<br>0<br>0<br>7 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>61.0<br>19<br>1<br>1<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |

| Normal                            | 29 Actual                                 | Normal                            | 30 Actual                                 | Normal                            | 31 Actual                                 |
|-----------------------------------|---|-----------------------------------|---|-----------------------------------|---|
| 79.0<br>57.0<br>10<br>1<br>1<br>5 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>59.0<br>10<br>4<br>4<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>59.0<br>18<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 82.0<br>62.0<br>11<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>18<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>20<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 83.0<br>62.0<br>09<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>15<br>1<br>1<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>10<br>0<br>0<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 82.0<br>62.0<br>11<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>18<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 81.0<br>62.0<br>20<br>7<br>7<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |
| 83.0<br>62.0<br>09<br>0<br>0<br>8 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>15<br>1<br>1<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD | 83.0<br>63.0<br>10<br>0<br>0<br>9 | Normal<br>MAX<br>MIN<br>PPT<br>RPT<br>CDD |

| Normal | Actual              |
|--------|---------------------|
| 69.2°F | TEMPERATURE         |
| 5.76"  | PRECIPITATION       |
| 37     | HEATING DEGREE DAYS |
| 177    | COOLING DEGREE DAYS |