# OKLAHOMA
# MONTHLY SUMMARY
# OCTOBER 1990

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## OCTOBER 1990 OKLAHOMA SUMMARY

The pleasant autumn conditions prevailing at the end of September continued throughout much of October. Afternoon highs in the 70's were commonplace, but nighttime lows in the 30's made many mornings a bit nippy. The cool nights helped to make October's statewide average temperature of 60.6 degrees the 22nd coolest on record. The average temperature for the year, thus far, is 64.8 degrees, the 18th warmest since 1892.

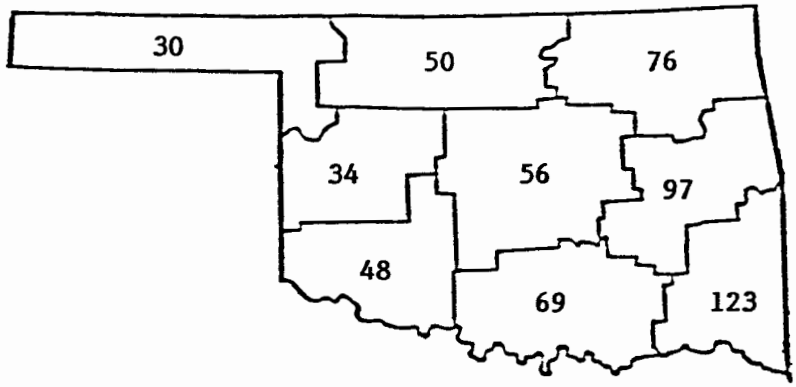
Warm afternoons were accompanied by an abundance of sunshine. Most of the precipitation recorded in October occurred in the first third of the month, with another round of rainfall near the 20th. No precipitation was recorded in the state after October 22. The statewide average of 1.93 inches, .83 inch below normal, was the 35th driest October on record. Most of the rainfall was concentrated in the south and east while the dry conditions of late-spring and summer continued in the northwest. Despite the relatively dry conditions during the month, the state-averaged annual total precipitation to date of 38.89 inches (13.47 inches above normal) ranks as Oklahoma's eighth greatest January through October rainfall.

Temperatures at several stations across western Oklahoma reached into the low 90's from October 5-7. A cold front moved slowly through the state from the 7th to 9th, bringing with it 24-hour rainfall totals in excess of 3 inches, including 3.94 inches at Antlers on the eighth. The combination of cloud cover and rainfall dropped high temperatures into the 40's and 50's in western Oklahoma, the same region that had recorded 90's just a few days earlier.

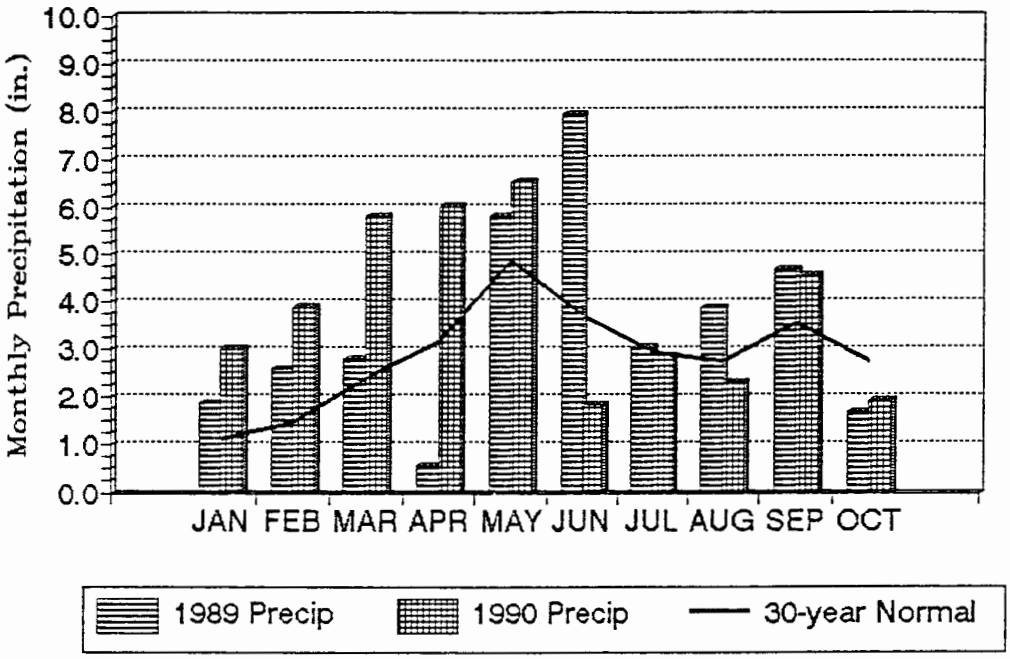
As the front passed and the skies cleared, nighttime temperatures dropped below freezing in many parts of western Oklahoma on October 10. However, the clear skies also brought a return of warm, sunny conditions statewide. Another cold front passed through the state on the 21st, once again dropping high temperatures into the 50's and bringing a second, much lighter, round of precipitation. Nighttime temperatures dipped to as low as 24 degrees (at Freedom) in western regions on the 22nd, the first hard-freeze of the season. A rapid warm-up led to pleasant conditions, which prevailed for the rest of the month with highs mostly in the 70's and 80's and no further rainfall.

-Mark A. Shafer

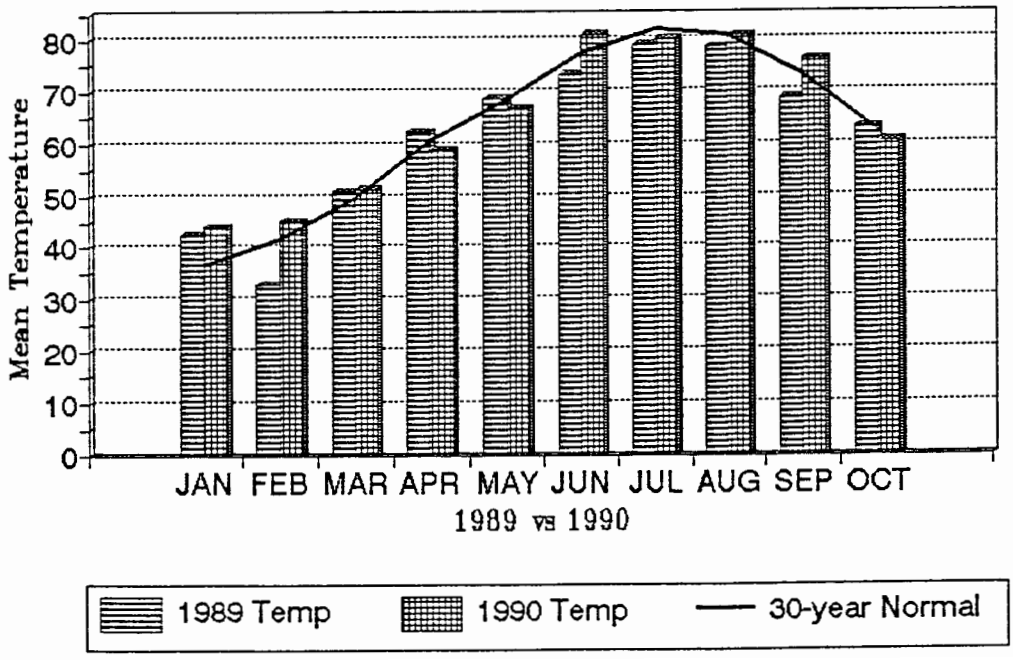
**October 1990 percent of normal precipitation.**



# Comparison of Monthly Precipitation
## Statewide Average for Oklahoma




# Comparison of Monthly Temperature
## Statewide Average for Oklahoma



## THE FIRST 10 MONTHS OF 1990

As is typical of Oklahoma weather, 1990 so far has been a year of extreme variability. Most months featured near normal temperatures, while others were among the warmest on record. Precipitation totals for each month have ranged from the second wettest on record (March) to the tenth driest (June). The northern part of the state suffered from a prolonged dry spell, even as southern Oklahoma cleaned up from record floods. Spring thunderstorms brought with them a return of strong tornadoes to Oklahoma. 32 tornadoes have been recorded so far in 1990, the most since 1986. Much of the total occurred during two outbreaks (March 13 and May 14-15). Shattuck suffered heavy damage from a tornado on April 25, and one person died when Stillwater was struck three weeks later (May 15).

The year began warm and wet. January was both its fifth warmest and fifth wettest since 1892. Temperatures gradually retreated towards their long-term averages, but the wet pattern continued throughout the remainder of the winter and spring. State-averaged precipitation during the period from January to April was the highest ever recorded, but much of the precipitation was concentrated in the southern half of the state. Many lakes were brought to record levels, and continued rainfall resulted in widespread flooding. Waters in Lake Texoma topped the spillway for the first time since 1957 (which had the wettest January-May period on record). Heavy rains continued in the South through May, but the North began a prolonged dry spell which would not be broken until mid-September.

A drastic shift from the Spring pattern occurred in June. A hot, dry pattern became entrenched over Oklahoma from early June to mid-July. This made June the sixth warmest and tenth driest on record. A month-long respite from the heat occurred beginning mid-July, but the heat wave returned with a vengeance in late August and September. This second heat wave forced cancellation or rescheduling of classes at many schools. Several cold fronts pushed through the state late in the month, bringing an end to the heat wave and a return to pleasant autumn conditions. Warm, sunny afternoons and cool nights were commonplace in October, with the first frost or light freeze occurring on October 10 in many parts of the state.

The year to date stands as the eighth wettest on record, with a statewide average of 38.89 inches, 13.47 inches above normal. There is a large variability in this figure, with regions of southeast Oklahoma running up to 25 inches above normal, while north central Oklahoma averages over 2.5 inches below normal. The mild winter and the summer heat waves combined to push Oklahoma temperatures to the 18th warmest since 1892.

Mark A. Shafer

## TABLE OF 1989/1990 COMPARISONS

| Station | October Temperature (F) 1989 | 1990 | October Precipitatin (in.) 1989 | 1990 |
|---|---|---|---|---|
| Arnett | 61.2 | 56.0 | 1.51 | .86 |
| Enid | 63.7 | 60.8 | 3.35 | 1.65 |
| Mutual | 61.0 | 57.8 | .93 | .77 |
| Tulsa | 64.8 | 61.8 | 2.80 | 2.15 |
| Elk City | 63.5 | 60.4 | 1.71 | 1.08 |
| Oklahoma City | 63.8 | 61.3 | 3.28 | 1.27 |
| McAlester | 66.1 | 61.9 | .89 | 3.42 |
| Altus Irr Sta | 66.6 | 62.7 | .80 | .87 |
| Durant | 65.0 | 61.7 | 1.54 | 3.01 |
| Ada | 64.2 | 60.6 | 1.92 | 1.49 |
| Antlers | 65.6 | 62.4 | .99 | 8.45 |

## EXTREMES

| Variable | Station | Division | Observation | Date |
|---|---|---|---|---|
| Minimum temperature (F) | Kenton | 1 | 24 | 21 |
| | Freedom | 2 | 24 | 22 |
| Maximum temperature (F) | Buffalo | 1 | 95 | 17 |
| Maximum 24-hour precipitation | Smithville | 9 | 6.60" | 8 |

## OCTOBER 1990 SUMMARY FOR NORTHWEST DIVISION (CD1)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | MAX DAY | MIN TEMP | MIN DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | MAX DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARNETT | 332 | 1 | 56.0 | 31 | -3.8 | 87. | 7 | 30. | 22 | 291.0 | 84.0 | 13.0 | -33.0 | .862 | 31 | -.95 | .55 | 9 |
| BEAVER | 593 | 1 | 56.5 | 31 | -2.7 | 89. | 17 | 28. | 21 | 285.5 | 66.5 | 21.5 | -18.5 | .520 | 31 | -.70 | .41 | 8 |
| BOISE CITY 2 E | 908 | 1 | 57.4 | 31 | .0 | 87. | 7 | 27. | 21 | 241.5 | -7.5 | 7.0 | -7.0 | .251 | 31 | -.58 | .13 | 2 |
| BUFFALO | 1243 | 1 | 62.6 | 31 | .5 | 95. | 17 | 28. | 10 | 136.0 | -19.0 | 61.5 | -3.5 | .300 | 31 | -1.65 | .15 | 3 |
| FARGO | 3070 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .630 | 31 | -1.04 | .54 | 9 |
| GAGE FAA APT | 3407 | 1 | 59.6 | 31 | -.1 | 90. | 6 | 32. | 18 | 203.0 | 1.0 | 35.0 | -3.0 | .570 | 31 | -1.02 | .28 | 8 |
| GATE | 3489 | 1 | 58.3 | 31 | ***** | 91. | 17 | 31. | 10 | 241.5 | ****** | 34.0 | ****** | .630 | 31 | ***** | .26 | 8 |
| GOODWELL RES ST | 3628 | 1 | 56.0 | 31 | -2.4 | 89. | 6 | 27. | 19 | 291.5 | 60.5 | 11.5 | -15.5 | .433 | 31 | -.52 | .29 | 8 |
| GUYMON | 3835 | 1 | 57.7 | 30 | ***** | 89. | 16 | 28. | 18 | 238.5 | ****** | 20.5 | ****** | .262 | 31 | ***** | .23 | 8 |
| HOOKER | 4298 | 1 | 56.5 | 31 | -2.3 | 88. | 17 | 28. | 21 | 277.0 | 51.0 | 13.5 | -20.5 | .180 | 31 | -.93 | .07 | 3 |
| KENTON | 4766 | 1 | 55.1 | 31 | -2.4 | 87. | 6 | 24. | 21 | 309.5 | 59.5 | 3.0 | -15.0 | .171 | 31 | -.73 | .13 | 9 |
| LAVERNE | 5045 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .320 | 31 | -1.19 | .17 | 9 |
| RANGE | 7412 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .250 | 31 | ***** | .20 | 8 |
| REGNIER | 7534 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .200 | 31 | -.56 | .15 | 9 |
| TURPIN 4 SSE | 9017 | 1 | 56.0 | 30 | ***** | 89. | 17 | 29. | 22 | 287.5 | ****** | 18.5 | ****** | .271 | 30 | ***** | .14 | 8 |

## OCTOBER 1990 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | MAX DAY | MIN TEMP | MIN DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | MAX DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALVA | 193 | 2 | 60.7 | 31 | ***** | 91. | 6 | 32. | 10 | 184.0 | ****** | 50.5 | ****** | .740 | 31 | ***** | .55 | 9 |
| VANCE AFB | 302 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.181 | 31 | ***** | .52 | 8 |
| BILLINGS | 755 | 2 | 59.4 | 31 | ***** | 88. | 5 | 29. | 22 | 205.5 | ****** | 32.5 | ****** | 1.612 | 31 | -.86 | .95 | 9 |
| BLACKWELL 2E | 818 | 2 | 60.1 | 31 | ***** | 86. | 6 | 33. | 23 | 195.5 | ****** | 43.5 | ****** | 1.031 | 31 | ***** | .51 | 9 |
| BRAMAN | 1075 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.350 | 31 | ***** | .98 | 3 |
| CHEROKEE | 1724 | 2 | 61.8 | 31 | -.4 | 90. | 7 | 34. | 28 | 163.5 | 12.5 | 64.0 | .0 | .780 | 31 | -1.04 | .28 | 8 |
| ENID | 2912 | 2 | 61.2 | 31 | -1.7 | 88. | 5 | 35. | 10 | 174.0 | 40.0 | 55.5 | -13.5 | 1.650 | 31 | -1.16 | 1.14 | 9 |
| FT SUPPLY DAM | 3304 | 2 | 57.3 | 31 | -4.0 | 91. | 7 | 31. | 10 | 261.5 | 97.5 | 24.0 | -25.0 | .480 | 31 | -.95 | .41 | 9 |
| FREEDOM | 3358 | 2 | 59.8 | 31 | ***** | 92. | 6 | 24. | 22 | 202.5 | ****** | 40.5 | ****** | .640 | 31 | ***** | .49 | 9 |
| GREAT SALT PLNS | 3740 | 2 | 60.1 | 31 | ***** | 93. | 7 | 33. | 10 | 201.0 | ****** | 48.0 | ****** | .900 | 22 | ***** | .45 | 9 |
| HARDY | 3909 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.662 | 31 | ***** | 1.00 | 2 |
| HELENA 1 SSE | 4019 | 2 | 57.5 | 31 | ***** | 88. | 7 | 32. | 29 | 255.0 | ****** | 23.5 | ****** | .980 | 31 | -1.14 | .53 | 9 |
| JEFFERSON | 4573 | 2 | 59.7 | 31 | -2.7 | 90. | 6 | 25. | 22 | 209.5 | 65.5 | 44.0 | -19.0 | .730 | 31 | -1.82 | .41 | 8 |
| LAMONT | 5013 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.620 | 31 | ***** | 1.02 | 3 |
| MEDFORD | 5768 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .950 | 31 | ***** | .52 | 2 |
| MORRISON | 6065 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.160 | 31 | ***** | .76 | 3 |
| MUTUAL | 6139 | 2 | 57.8 | 31 | -3.1 | 90. | 7 | 31. | 23 | 247.5 | 72.5 | 24.0 | -24.0 | .770 | 31 | -.75 | .43 | 9 |
| NEWKIRK | 6278 | 2 | 61.4 | 31 | -.5 | 86. | 6 | 34. | 22 | 168.5 | 11.5 | 55.5 | -5.5 | .991 | 31 | -1.78 | .50 | 3 |
| ORIENTA | 6751 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .830 | 31 | ***** | .63 | 9 |
| PERRY | 7012 | 2 | 61.5 | 31 | -2.0 | 87. | 6 | 30. | 21 | 157.5 | 32.5 | 49.5 | -29.5 | 1.830 | 31 | -.80 | .96 | 3 |
| PONCA CITY FAA | 7201 | 2 | 61.7 | 30 | .8 | 88. | 6 | 32. | 22 | 162.0 | -17.0 | 61.5 | 10.5 | 1.250 | 31 | -1.35 | .64 | 8 |
| RED ROCK 1 NNE | 7505 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.970 | 31 | -.50 | .99 | 3 |
| RENFROW | 7556 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.390 | 31 | -.93 | .81 | 3 |
| WAYNOKA | 9404 | 2 | 59.7 | 31 | -2.5 | 90. | 6 | 28. | 22 | 201.5 | 43.5 | 38.0 | -33.0 | .840 | 31 | -.87 | .62 | 9 |
| WOODWARD | 9760 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .480 | 31 | ***** | .42 | 9 |

## OCTOBER 1990 SUMMARY FOR NORTHEAST DIVISION (CD3)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | MAX DAY | MIN TEMP | MIN DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | MAX 24-HR DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BARNSDALL | 535 | 3 | 58.7 | 31 | ***** | 85. | 6 | 27. | 22 | 231.0 | ****** | 37.0 | ****** | 1.650 | 31 | -1.42 | .66 | 9 |
| BARTLESVILLE 2W | 548 | 3 | 59.5 | 31 | -2.1 | 88. | 6 | 27. | 22 | 215.5 | 55.5 | 44.0 | -10.0 | 1.470 | 31 | -1.74 | .75 | 3 |
| BIXBY | 782 | 3 | 57.8 | 31 | -3.9 | 85. | 7 | 29. | 23 | 253.5 | 81.5 | 29.5 | -40.5 | 2.070 | 31 | -1.09 | 1.06 | 4 |
| BURBANK | 1256 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.681 | 31 | ***** | .92 | 8 |
| CHELSEA 4 S | 1717 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.310 | 31 | ***** | 2.43 | 4 |
| CLAREMORE | 1828 | 3 | 58.1 | 31 | -3.3 | 85. | 7 | 29. | 22 | 249.0 | 69.0 | 34.0 | -34.0 | 2.582 | 31 | -.84 | 1.44 | 4 |
| CLEVELAND 5 WSW | 1902 | 3 | 61.1 | 30 | ***** | 87. | 5 | 29. | 22 | 174.5 | ****** | 57.0 | ****** | 2.120 | 30 | ***** | 1.25 | 3 |
| FORAKER | 3250 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.370 | 31 | -1.73 | .75 | 3 |
| HOMINY | 4289 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.941 | 31 | -1.01 | .78 | 3 |
| HULAH DAM | 4393 | 3 | 56.2 | 22 | ***** | 84. | 17 | 26. | 23 | 208.5 | ****** | 15.5 | ****** | 2.321 | 29 | ***** | 1.47 | 3 |
| JAY TOWER | 4567 | 3 | 60.3 | 22 | ***** | 86. | 15 | 32. | 25 | 141.0 | ****** | 37.0 | ****** | 2.900 | 22 | ***** | 1.15 | 3 |
| KANSAS 1 ESE | 4672 | 3 | 59.0 | 31 | ***** | 81. | 5 | 34. | 23 | 219.5 | ****** | 33.0 | ****** | 5.192 | 31 | ***** | 3.30 | 9 |
| KEYSTONE DAM | 4812 | 3 | 58.3 | 30 | ***** | 86. | 7 | 31. | 22 | 233.0 | ****** | 33.5 | ****** | 1.701 | 30 | ***** | .74 | 9 |
| LENAPAH | 5118 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.320 | 31 | ***** | .62 | 9 |
| MANNFORD 6 NW | 5522 | 3 | 60.0 | 30 | ***** | 86. | 6 | 27. | 22 | 195.0 | ****** | 43.5 | ****** | 1.580 | 30 | ***** | .45 | 9 |
| MARAMEC | 5540 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.583 | 31 | -.58 | 1.92 | 3 |
| MIAMI | 5855 | 3 | 58.6 | 31 | -2.8 | 84. | 17 | 30. | 11 | 225.0 | 51.0 | 27.5 | -35.5 | 1.190 | 30 | ***** | 1.15 | 9 |
| NOWATA | 6485 | 3 | 59.1 | 31 | -2.7 | 85. | 6 | 30. | 22 | 214.5 | 57.5 | 33.0 | -25.0 | 2.010 | 31 | -1.29 | .95 | 6 |
| ONETA 1 WNW | 6713 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.120 | 31 | ***** | 2.18 | 4 |
| PAWHUSKA | 6935 | 3 | 59.5 | 31 | -2.0 | 86. | 6 | 28. | 22 | 212.5 | 51.5 | 41.5 | -11.5 | 2.791 | 31 | -.14 | 2.01 | 3 |
| PAWNEE | 6940 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.782 | 31 | -.94 | 1.20 | 3 |
| PRYOR 6 N | 7309 | 3 | 57.2 | 31 | -4.2 | 85. | 7 | 27. | 23 | 260.5 | 93.5 | 17.5 | -37.5 | 3.281 | 31 | -.49 | 1.83 | 4 |
| RALSTON | 7390 | 3 | 61.3 | 31 | ***** | 88. | 6 | 27. | 22 | 175.5 | ****** | 61.5 | ****** | 1.330 | 31 | -1.36 | .87 | 3 |
| RAMONA 4 N | 7394 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.510 | 31 | ***** | .73 | 8 |
| SKIATOOK | 8258 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.860 | 31 | -1.33 | .92 | 4 |
| SPAVINAW | 8380 | 3 | 61.7 | 31 | ***** | 84. | 6 | 35. | 22 | 168.0 | ****** | 64.5 | ****** | 2.663 | 31 | -.99 | 1.12 | 4 |
| TULSA WSO APT | 8992 | 3 | 61.8 | 31 | -.8 | 87. | 6 | 35. | 22 | 169.0 | 23.0 | 70.0 | -2.0 | 2.154 | 31 | -1.26 | 1.46 | 3 |
| UPPER SPAVINAW | 9101 | 3 | 61.2 | 31 | ***** | 89. | 4 | 33. | 23 | 196.0 | ****** | 79.5 | ****** | 3.152 | 31 | ***** | 1.50 | 9 |
| VINITA 2 N | 9203 | 3 | 58.5 | 31 | -2.7 | 84. | 6 | 27. | 22 | 238.5 | 62.5 | 36.5 | -21.5 | 3.630 | 31 | -.09 | 2.78 | 4 |
| WAGONER | 9247 | 3 | 60.7 | 31 | -2.4 | 85. | 6 | 32. | 22 | 188.5 | 47.5 | 56.0 | -26.0 | 2.000 | 31 | -1.10 | 1.08 | 9 |
| WANN | 9298 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.842 | 29 | ***** | .77 | 9 |
| WYNONA | 9792 | 3 | 60.5 | 31 | ***** | 87. | 6 | 30. | 22 | 198.0 | ****** | 58.0 | ****** | 1.995 | 31 | ***** | 1.46 | 3 |

## OCTOBER 1990 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | MAX DAY | MIN TEMP | MIN DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | MAX 24-HR DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CANTON DAM | 1445 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.150 | 28 | ***** | .65 | 9 |
| CHEYENNE | 1738 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .360 | 31 | ***** | .36 | 9 |
| CLINTON | 1909 | 4 | 61.5 | 31 | -.7 | 89. | 5 | 28. | 22 | 155.5 | 10.5 | 46.5 | -11.5 | .811 | 31 | -1.89 | .46 | 3 |
| COLONY | 2039 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .710 | 31 | ***** | .58 | 3 |
| CORDELL | 2125 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .501 | 31 | -2.08 | .35 | 3 |
| ELK CITY 1 E | 2849 | 4 | 60.4 | 31 | ***** | 85. | 6 | 34. | 22 | 177.0 | ****** | 34.0 | ****** | 1.081 | 31 | -.91 | .68 | 9 |
| ERICK 4 E | 2944 | 4 | 59.9 | 31 | -1.9 | 88. | 6 | 30. | 22 | 185.0 | 40.0 | 26.0 | -19.0 | 1.090 | 31 | -1.11 | .61 | 9 |
| GEARY | 3497 | 4 | 60.8 | 29 | ***** | 86. | 5 | 30. | 22 | 162.5 | ****** | 39.5 | ****** | .600 | 31 | -1.83 | .40 | 3 |
| HAMMON 1 NNE | 3871 | 4 | 56.4 | 31 | -4.9 | 86. | 7 | 27. | 22 | 283.5 | 113.5 | 16.0 | -40.0 | .900 | 31 | -1.00 | .60 | 9 |
| LEEDEY | 5090 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .880 | 31 | -.88 | .48 | 9 |
| MACKIE 4 NNW | 5463 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .450 | 31 | ***** | .32 | 9 |
| MORAVIA 2 NNE | 6035 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .940 | 31 | -1.48 | .57 | 3 |
| OKEENE | 6629 | 4 | 60.9 | 31 | -2.5 | 89. | 6 | 31. | 22 | 176.0 | 54.0 | 48.5 | -24.5 | .850 | 31 | -1.27 | .60 | 9 |
| RETROP | 7565 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .720 | 31 | ***** | .40 | 3 |
| REYDON | 7579 | 4 | 59.8 | 31 | ***** | 87. | 6 | 29. | 22 | 195.5 | ****** | 33.0 | ****** | .690 | 31 | -.99 | .30 | 8 |
| SAYRE | 7952 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .990 | 31 | -1.14 | .67 | 9 |
| SWEETWATER 2 E | 8652 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .701 | 31 | ***** | .31 | 8 |
| TALOGA | 8708 | 4 | 58.6 | 31 | -2.4 | 87. | 5 | 25. | 22 | 217.0 | 49.0 | 19.5 | -24.5 | 1.010 | 31 | -.85 | .82 | 9 |
| THOMAS | 8815 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .380 | 31 | ***** | .38 | 3 |
| VICI | 9172 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .871 | 31 | ***** | .48 | 9 |
| WATONGA | 9364 | 4 | 61.1 | 31 | ***** | 86. | 16 | 29. | 22 | 169.5 | ****** | 47.5 | ****** | .501 | 31 | -1.72 | .24 | 3 |
| WEATHERFORD | 9422 | 4 | 59.5 | 31 | -3.2 | 87. | 6 | 33. | 23 | 197.0 | 63.0 | 27.0 | -36.0 | .520 | 31 | -2.21 | .28 | 3 |

# OCTOBER 1990 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 | ****** | ****** | ****** | ****** | 1.250 | 31 | ***** | .44 | 21 |
| ARCADIA | 288 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.260 | 31 | ***** | .82 | 3 |
| TINKER AFB | 325 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .993 | 30 | ***** | .77 | 8 |
| BLANCHARD 2 SSW | 830 | 5 | 62.0 | 23 | ***** | 88. | 6 | 36. | 22 | 126.0 | ****** | 58.0 | ****** | 2.400 | 31 | ***** | .94 | 9 |
| BRISTOW | 1144 | 5 | 60.5 | 31 | -2.8 | 86. | 6 | 29. | 22 | 187.0 | 51.0 | 49.0 | -36.0 | 2.754 | 31 | .21 | 1.17 | 4 |
| CHANDLER | 1684 | 5 | 61.2 | 31 | -2.1 | 86. | 5 | 33. | 22 | 172.0 | 43.0 | 54.5 | -22.5 | 1.890 | 31 | -.54 | .80 | 3 |
| CHICKASHA EX ST | 1750 | 5 | 62.4 | 31 | -.8 | 90. | 7 | 30. | 22 | 153.0 | 25.0 | 73.0 | 1.0 | 1.900 | 31 | -.81 | .82 | 21 |
| COX CITY 1 E | 2196 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.920 | 30 | ***** | 1.10 | 9 |
| CRESCENT | 2242 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .550 | 31 | ***** | .31 | 3 |
| CUSHING | 2318 | 5 | 59.0 | 28 | ***** | 84. | 17 | 35. | 23 | 199.0 | ****** | 30.0 | ****** | 2.170 | 29 | ***** | 1.40 | 3 |
| EL RENO 1 N | 2818 | 5 | 61.4 | 31 | -1.0 | 86. | 6 | 28. | 22 | 169.0 | 29.0 | 57.0 | -2.0 | .680 | 31 | -2.20 | .34 | 9 |
| GUTHRIE | 3821 | 5 | 62.5 | 31 | -.5 | 90. | 6 | 30. | 22 | 151.5 | 12.5 | 75.5 | -1.5 | .830 | 31 | -1.83 | .37 | 9 |
| HENNESSEY 2 SE | 4055 | 5 | 61.1 | 30 | -1.7 | 87. | 6 | 30. | 22 | 164.5 | 23.5 | 47.5 | -25.5 | .970 | 30 | ***** | .73 | 3 |
| INGALLS | 4489 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.881 | 31 | ***** | 1.38 | 5 |
| KINGFISHER 2 SE | 4861 | 5 | 60.8 | 31 | -2.1 | 87. | 5 | 28. | 22 | 176.0 | 47.0 | 46.5 | -17.5 | .810 | 31 | -1.63 | .47 | 3 |
| KONAWA | 4915 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.141 | 31 | -1.45 | 1.20 | 9 |
| MARSHALL | 5589 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .980 | 31 | -1.62 | .63 | 3 |
| MEEKER 4 W | 5779 | 5 | 60.7 | 31 | -1.8 | 84. | 6 | 30. | 22 | 186.0 | 36.0 | 52.0 | -21.0 | 1.570 | 31 | -1.21 | .70 | 8 |
| MULHALL | 6110 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.910 | 31 | ***** | 1.50 | 2 |
| NORMAN 3 S | 6386 | 5 | 61.5 | 31 | ***** | 88. | 6 | 31. | 22 | 163.0 | ****** | 55.5 | ****** | 2.231 | 31 | -.40 | 1.03 | 3 |
| OILTON 2 SE | 6616 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.380 | 31 | ***** | .98 | 3 |
| OKEMAH | 6638 | 5 | 61.8 | 31 | -1.7 | 86. | 6 | 35. | 22 | 160.5 | 35.5 | 62.5 | -16.5 | 2.222 | 31 | -.65 | 1.09 | 9 |
| OKLAHOMA CTY WS | 6661 | 5 | 61.3 | 31 | -1.0 | 88. | 6 | 35. | 22 | 169.0 | 24.0 | 55.0 | -6.0 | 1.273 | 31 | -1.44 | .78 | 3 |
| PERKINS | 7003 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.900 | 31 | -1.25 | 1.02 | 3 |
| PIEDMONT | 7068 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .830 | 31 | ***** | .33 | 3 |
| PRAGUE | 7264 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.361 | 31 | -1.51 | .70 | 9 |
| PURCELL 5 SW | 7327 | 5 | 60.3 | 31 | -2.6 | 87. | 6 | 27. | 22 | 192.0 | 57.0 | 46.5 | -23.5 | 1.502 | 31 | -1.68 | .60 | 9 |
| SEMINOLE | 8042 | 5 | 62.0 | 30 | -2.5 | 86. | 7 | 33. | 22 | 154.5 | 54.5 | 66.0 | -22.0 | 2.331 | 30 | ***** | 1.23 | 9 |
| SHAWNEE | 8110 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.650 | 31 | -1.55 | .48 | 21 |
| STELLA | 8479 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.740 | 31 | ***** | .55 | 21 |
| STILLWATER 2 W | 8501 | 5 | 60.0 | 31 | -1.9 | 88. | 6 | 27. | 22 | 202.5 | 44.5 | 48.0 | -14.0 | 1.241 | 31 | -1.66 | .82 | 3 |
| STROUD 1 N | 8563 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.431 | 31 | ***** | .68 | 9 |
| TECUMSEH | 8751 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.060 | 31 | ***** | .80 | 9 |
| TROUSDALE | 8960 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.540 | 29 | ***** | 1.27 | 9 |
| UNION CITY 1 SE | 9086 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.210 | 31 | -1.88 | .49 | 9 |
| WELTY 1 SSE | 9479 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.620 | 31 | ***** | .60 | 9 |
| WEWOKA | 9575 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.380 | 31 | -.60 | 1.15 | 21 |

## OCTOBER 1990 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

| NAME | ID | CD | MEAN TEMP | DEV NUM OBS | DEV FROM NORM | MAX TEMP | MAX DAY | MIN TEMP | MIN DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | DEV NUM OBS | DEV FROM NORM | MAX 24-HR | MAX DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASHLAND | 364 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.880 | 31 | ***** | 2.97 | 9 |
| BEGGS | 631 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.650 | 31 | ***** | .81 | 1 |
| BOYNTON | 1027 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.740 | 31 | ***** | 1.80 | 9 |
| CALVIN | 1391 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .672 | 31 | -3.04 | .52 | 8 |
| CHECOTAH | 1711 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.843 | 31 | -.60 | 1.87 | 9 |
| CLAYTON 11 WNW | 1858 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.690 | 31 | ***** | 1.40 | 9 |
| DEWAR 2 NE | 2485 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.960 | 31 | -1.30 | 1.34 | 9 |
| DUSTIN | 2690 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.100 | 31 | ***** | 1.89 | 9 |
| EUFAULA | 2993 | 6 | 62.7 | 31 | ***** | 86. | 5 | 36. | 22 | 148.0 | ****** | 77.5 | ****** | 2.713 | 31 | -.70 | 2.22 | 9 |
| HANNA | 3884 | 6 | 60.7 | 31 | ***** | 86. | 6 | 31. | 23 | 190.0 | ****** | 56.5 | ****** | 2.122 | 31 | -1.15 | 1.69 | 9 |
| HARTSHORNE | 3946 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.442 | 31 | ***** | 2.47 | 9 |
| HASKELL | 3956 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.521 | 31 | -.55 | 1.30 | 9 |
| HOLDENVILLE | 4235 | 6 | 60.8 | 29 | ***** | 88. | 6 | 32. | 22 | 174.0 | ****** | 51.0 | ****** | 2.951 | 29 | ***** | 2.19 | 9 |
| LAKE EUFAULA | 4975 | 6 | 61.2 | 31 | ***** | 87. | 6 | 37. | 23 | 184.0 | ****** | 65.0 | ****** | 4.322 | 31 | ***** | 3.23 | 9 |
| LYONS 2 N | 5437 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.872 | 31 | .79 | 3.10 | 8 |
| MARBLE CITY | 5546 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.682 | 31 | ***** | 3.65 | 9 |
| MCALESTER FAA | 5664 | 6 | 61.9 | 31 | -1.3 | 87. | 6 | 32. | 22 | 183.0 | 50.0 | 85.5 | 7.5 | 3.423 | 31 | -.48 | 2.36 | 8 |
| MCCURTAIN 1 SE | 5693 | 6 | 62.0 | 31 | ***** | 86. | 6 | 30. | 23 | 170.0 | ****** | 77.5 | ****** | 4.050 | 31 | .74 | 1.75 | 9 |
| MUSKOGEE | 6130 | 6 | 59.9 | 30 | -3.0 | 85. | 6 | 32. | 22 | 195.5 | 55.5 | 41.5 | -33.5 | 2.220 | 30 | ***** | .93 | 8 |
| OKMULGEE W W | 6670 | 6 | 57.5 | 30 | -5.6 | 87. | 7 | 28. | 22 | 251.0 | 113.0 | 26.0 | -53.0 | 2.182 | 29 | ***** | .89 | 9 |
| OKTAHA 2 NE | 6678 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.020 | 31 | ***** | 1.34 | 9 |
| QUINTON | 7372 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.262 | 31 | .65 | 2.99 | 9 |
| SALLISAW 2 NE | 7862 | 6 | 59.9 | 31 | -3.5 | 86. | 7 | 29. | 26 | 205.0 | 79.0 | 46.0 | -30.0 | 3.891 | 31 | .03 | 1.85 | 9 |
| SCIPIO | 7979 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.740 | 31 | ***** | 2.43 | 9 |
| SCRAPER | 7993 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.840 | 31 | ***** | 1.25 | 9 |
| SHORT | 8170 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.270 | 31 | ***** | 2.20 | 9 |
| STILWELL 1 NE | 8506 | 6 | 59.4 | 31 | ***** | 82. | 5 | 30. | 25 | 210.5 | ****** | 37.0 | ****** | 4.271 | 31 | .99 | 3.35 | 9 |
| TAHLEQUAH | 8677 | 6 | 59.4 | 30 | -2.5 | 85. | 6 | 30. | 23 | 209.0 | 40.0 | 40.5 | -32.5 | 3.000 | 30 | ***** | 1.02 | 9 |
| WEBBERS FALLS | 9445 | 6 | 59.0 | 31 | -3.0 | 86. | 7 | 31. | 22 | 227.0 | 75.0 | 42.5 | -16.5 | 3.361 | 31 | -.39 | 2.62 | 9 |
| WESTVILLE | 9523 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.500 | 31 | ***** | 1.75 | 9 |
| WETUMKA 3 NE | 9571 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.862 | 31 | -.27 | 1.36 | 9 |

## OCTOBER 1990 SUMMARY FOR SOUTHWEST DIVISION (CD7)

| NAME | ID | CD | MEAN TEMP | DEV NUM OBS | DEV FROM NORM | MAX TEMP | MAX DAY | MIN TEMP | MIN DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | DEV NUM OBS | DEV FROM NORM | MAX 24-HR | MAX DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALTUS IRR STA | 179 | 7 | 62.7 | 31 | -1.9 | 91. | 6 | 29. | 22 | 134.0 | 27.0 | 63.5 | -31.5 | .870 | 31 | -1.68 | .63 | 3 |
| ALTUS DAM | 184 | 7 | 60.9 | 31 | ***** | 90. | 7 | 27. | 23 | 182.5 | ****** | 54.5 | ****** | .610 | 31 | -2.09 | .55 | 3 |
| ANADARKO | 224 | 7 | 61.9 | 24 | ***** | 88. | 6 | 25. | 22 | 120.5 | ****** | 46.0 | ****** | .360 | 25 | ***** | .36 | 2 |
| APACHE | 260 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.240 | 31 | ***** | .78 | 9 |
| ALTUS AFB | 447 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .911 | 30 | ***** | .62 | 3 |
| CARNEGIE 2 ENE | 1504 | 7 | 60.6 | 29 | ***** | 90. | 6 | 25. | 22 | 163.0 | ****** | 34.0 | ****** | .611 | 29 | ***** | .42 | 3 |
| CHATTANOOGA | 1706 | 7 | 63.4 | 31 | -.9 | 93. | 6 | 29. | 22 | 130.0 | 29.0 | 79.5 | .5 | 1.300 | 31 | -1.47 | .90 | 9 |
| DUNCAN 12 W | 2668 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.880 | 31 | ***** | 1.85 | 9 |
| FREDERICK | 3353 | 7 | 61.4 | 31 | -4.2 | 88. | 6 | 34. | 22 | 162.5 | 69.5 | 49.5 | -62.5 | 1.470 | 31 | -.99 | 1.09 | 8 |
| GRANDFIELD 4 NW | 3709 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.210 | 31 | -1.63 | .70 | 9 |
| HOBART FAA APT | 4204 | 7 | 62.0 | 31 | -.4 | 89. | 6 | 28. | 22 | 158.0 | 16.0 | 63.5 | 2.5 | .791 | 31 | -1.73 | .65 | 3 |
| HOLLIS | 4249 | 7 | 61.0 | 29 | ***** | 90. | 6 | 29. | 22 | 150.0 | ****** | 34.0 | ****** | .720 | 30 | ***** | .51 | 3 |
| HOLLISTER | 4250 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .880 | 31 | ***** | .88 | 9 |
| LAWTON | 5063 | 7 | 60.8 | 31 | -3.2 | 91. | 6 | 31. | 23 | 180.0 | 65.0 | 50.0 | -34.0 | 1.100 | 31 | -1.75 | .68 | 8 |
| FORT SILL | 5068 | 7 | 61.6 | 31 | ***** | 90. | 6 | 32. | 22 | 158.5 | ****** | 54.5 | ****** | 1.230 | 31 | -1.62 | .69 | 8 |
| LOOKEBA 2 ENE | 5329 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .930 | 31 | ***** | .55 | 3 |
| MANGUM RES STA | 5509 | 7 | 61.4 | 31 | -2.4 | 89. | 6 | 29. | 22 | 151.0 | 33.0 | 39.5 | -41.5 | .660 | 31 | -1.96 | .48 | 3 |
| RANDLETT 9 E | 7403 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .320 | 31 | ***** | .32 | 3 |
| ROOSEVELT | 7727 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .970 | 31 | -1.51 | .60 | 3 |
| SEDAN | 8016 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .720 | 31 | ***** | .39 | 9 |
| VINSON 3 WNW | 9212 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.060 | 31 | -1.21 | .60 | 9 |
| WALTERS | 9278 | 7 | 63.2 | 31 | -1.6 | 91. | 6 | 30. | 22 | 132.5 | 16.5 | 75.5 | -34.5 | 3.212 | 31 | .29 | 2.23 | 8 |
| WICHITA MT WLR | 9629 | 7 | 59.2 | 31 | -3.5 | 87. | 6 | 30. | 22 | 208.0 | 69.0 | 29.0 | -39.0 | .990 | 31 | -1.74 | .55 | 3 |
| WILLOW | 9668 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .950 | 31 | ***** | .55 | 3 |

## OCTOBER 1990 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

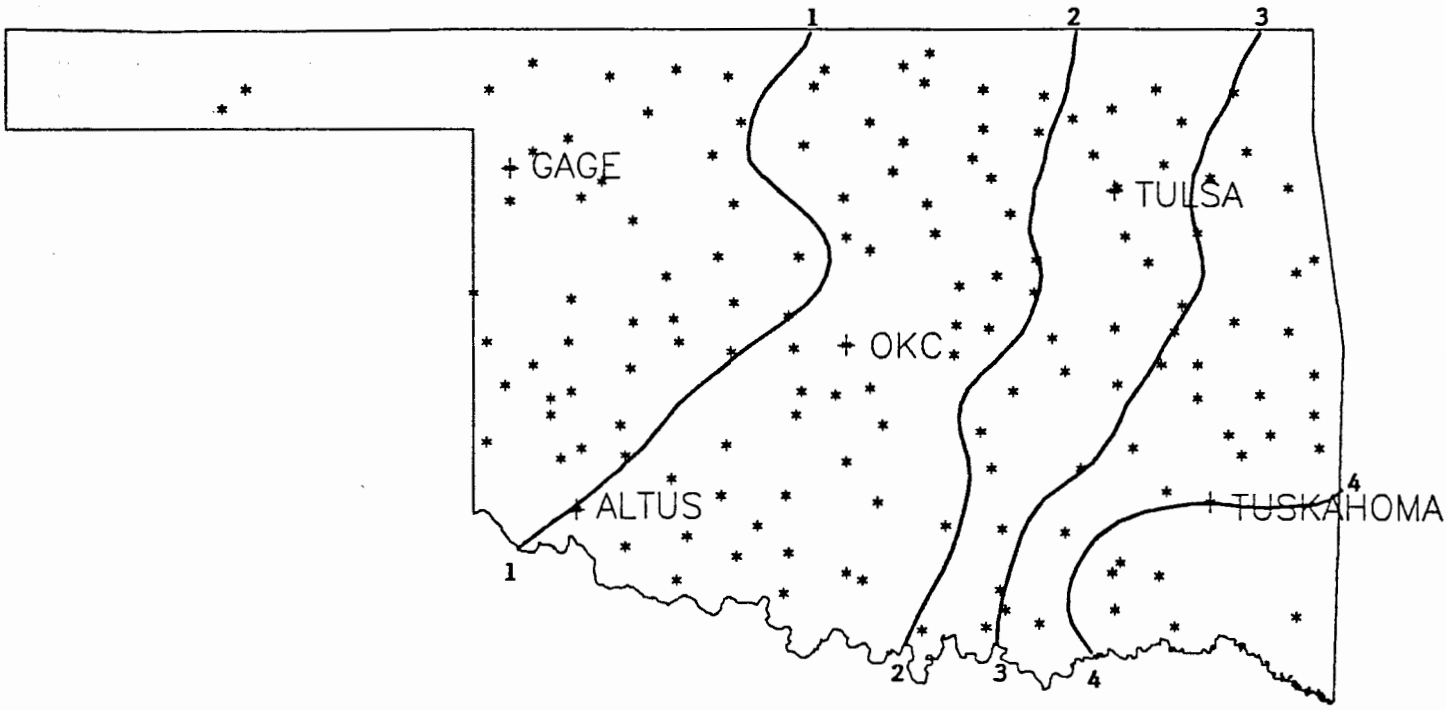
| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ADA | 17 | 8 | 60.4 | 31 | -4.0 | 88. | 6 | 31. | 23 | 190.0 | 71.0 | 47.0 | -53.0 | 1.490 | 31 | -2.43 | 1.28 | 9 |
| ALLEN | 147 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.550 | 31 | ***** | 1.55 | 9 |
| ARDMORE | 292 | 8 | 63.6 | 29 | ***** | 90. | 6 | 36. | 22 | 123.0 | ****** | 81.0 | ****** | 2.170 | 29 | ***** | 1.10 | 8 |
| ATOKA DAM | 394 | 8 | 62.2 | 31 | ***** | 91. | 7 | 36. | 23 | 166.0 | ****** | 78.5 | ****** | 3.410 | 31 | ***** | 1.72 | 9 |
| BOKCHITO | 917 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 5.000 | 31 | ***** | 2.50 | 9 |
| CANEY | 1437 | 8 | 62.4 | 31 | ***** | 90. | 6 | 35. | 22 | 163.5 | ****** | 83.0 | ****** | 4.030 | 31 | ***** | 2.50 | 9 |
| CENTRAHOMA | 1648 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.000 | 31 | ***** | .65 | 19 |
| CHICKASAW NRA | 1745 | 8 | 60.1 | 31 | ***** | 87. | 7 | 29. | 22 | 209.5 | ****** | 56.5 | ****** | 1.720 | 31 | ***** | 1.05 | 9 |
| COLEMAN | 2011 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.490 | 31 | ***** | 1.65 | 9 |
| COMANCHE | 2054 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .282 | 31 | ***** | .28 | 3 |
| DAISY 4 ENE | 2354 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.691 | 30 | ***** | 1.01 | 9 |
| DUNCAN | 2660 | 8 | 61.3 | 31 | -3.5 | 91. | 7 | 32. | 22 | 170.5 | 65.5 | 55.0 | -44.0 | 1.580 | 31 | -1.37 | 1.30 | 9 |
| DURANT USDA | 2678 | 8 | 61.7 | 31 | ***** | 90. | 7 | 33. | 24 | 183.5 | ****** | 80.0 | ****** | 3.010 | 31 | -.46 | 1.78 | 9 |
| ELMORE CITY | 2872 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .401 | 31 | ***** | .25 | 3 |
| FARRIS 3 WNW | 3083 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 6.200 | 31 | ***** | 3.22 | 9 |
| GRADY | 3688 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.101 | 31 | ***** | .83 | 21 |
| HEALDTON | 4001 | 8 | 62.3 | 31 | ***** | 90. | 6 | 31. | 22 | 159.5 | ****** | 74.5 | ****** | 1.050 | 31 | -2.07 | .48 | 21 |
| HENNEPIN | 4052 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.691 | 31 | ***** | 1.07 | 9 |
| KETCHUM RANCH | 4780 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.910 | 31 | ***** | .80 | 8 |
| KINGSTON | 4865 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.680 | 31 | -.96 | 1.43 | 8 |
| LEHIGH | 5108 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.081 | 31 | ***** | 1.18 | 9 |
| LINDSAY 2 W | 5216 | 8 | 60.8 | 31 | ***** | 87. | 6 | 29. | 22 | 183.0 | ****** | 53.0 | ****** | 1.513 | 31 | -1.56 | .95 | 9 |
| LOCO 6 SE | 5247 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .660 | 31 | ***** | .32 | 9 |
| MADILL | 5468 | 8 | 62.9 | 31 | -2.4 | 91. | 6 | 34. | 23 | 147.0 | 54.0 | 80.5 | -21.5 | 2.190 | 31 | -1.38 | 1.10 | 8 |
| MARIETTA | 5563 | 8 | 64.5 | 31 | -.9 | 92. | 6 | 34. | 22 | 119.5 | 27.5 | 103.5 | -1.5 | 2.900 | 31 | -.13 | 1.08 | 9 |
| MARLOW 1 WSW | 5581 | 8 | 62.5 | 31 | ***** | 91. | 6 | 26. | 22 | 149.5 | ****** | 73.0 | ****** | 2.670 | 31 | -.28 | 1.63 | 9 |
| MCGEE CREEK DAM | 5713 | 8 | 61.3 | 31 | ***** | 90. | 7 | 34. | 23 | 186.0 | ****** | 70.0 | ****** | 6.280 | 31 | ***** | 3.11 | 9 |
| PAULS VALLEY | 6926 | 8 | 61.8 | 31 | -2.5 | 88. | 6 | 29. | 22 | 161.0 | 56.0 | 61.0 | -22.0 | 2.190 | 31 | -1.38 | 1.40 | 9 |
| PONTOTOC | 7214 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.140 | 31 | -1.64 | 1.06 | 8 |
| TISHOMINGO NWLR | 8884 | 8 | 63.0 | 30 | ***** | 91. | 6 | 31. | 23 | 151.5 | ****** | 92.0 | ****** | 2.850 | 31 | -.78 | 1.38 | 9 |
| TUSSY | 9032 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.630 | 31 | ***** | 1.32 | 9 |
| WAURIKA | 9395 | 8 | 64.8 | 31 | -.7 | 93. | 6 | 31. | 22 | 104.0 | 10.0 | 97.5 | -11.5 | .010 | 31 | -2.68 | .01 | 21 |
| WAURIKA DAM | 9399 | 8 | 62.4 | 27 | ***** | 92. | 7 | 32. | 23 | 133.5 | ****** | 62.0 | ****** | 1.320 | 29 | ***** | .82 | 9 |

## OCTOBER 1990 SUMMARY FOR SOUTHEAST DIVISION (CD9)

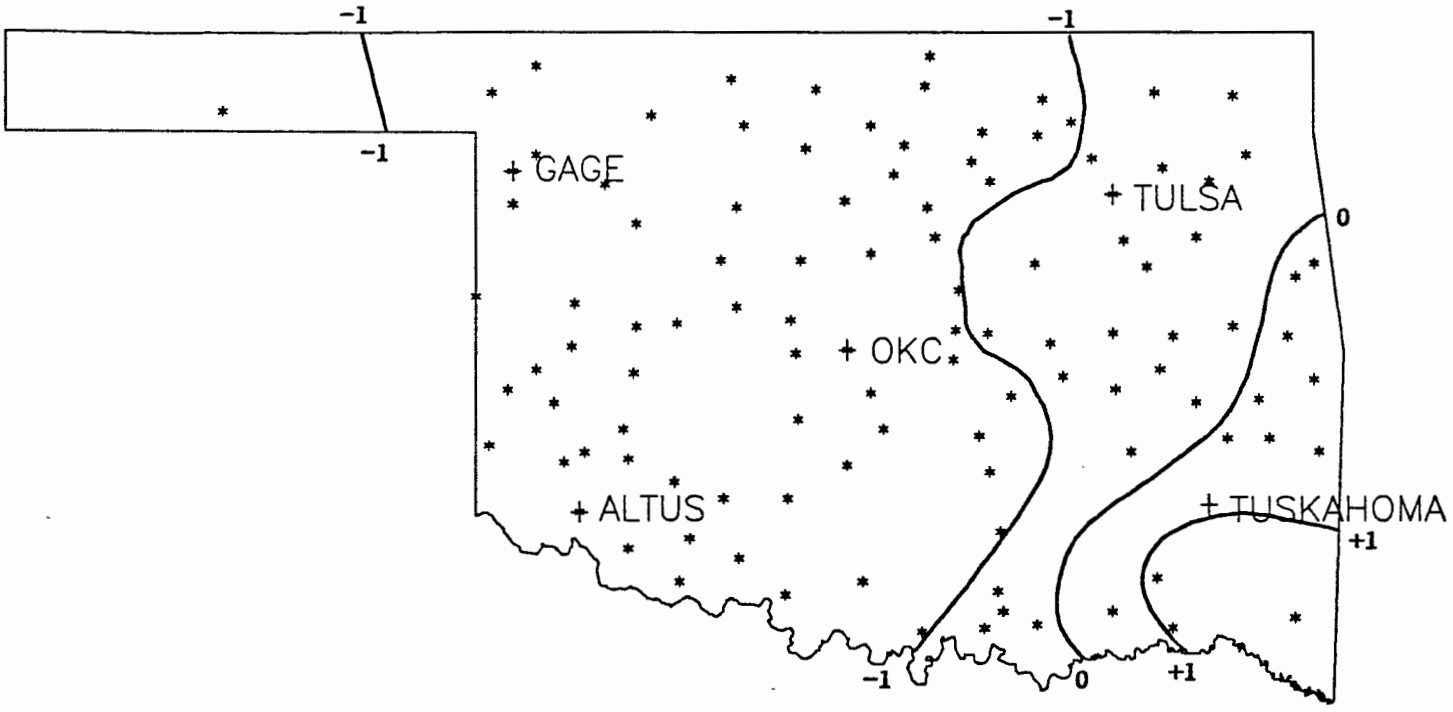
| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANTLERS | 256 | 9 | 62.4 | 31 | -1.1 | 89. | 6 | 33. | 23 | 160.0 | 36.0 | 80.0 | 2.0 | 8.450 | 31 | 4.54 | 3.94 | 8 |
| BATTIEST 1 SSW | 567 | 9 | 59.2 | 31 | ***** | 83. | 6 | 29. | 23 | 228.5 | ****** | 47.5 | ****** | 4.611 | 31 | ***** | 2.33 | 9 |
| BEAR MT TWR | 584 | 9 | 61.7 | 22 | ***** | 90. | 1 | 35. | 23 | 117.5 | ****** | 44.5 | ****** | 4.850 | 23 | ***** | 2.44 | 8 |
| BENGAL | 670 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.540 | 31 | ***** | 1.17 | 9 |
| BOSWELL 4 NNW | 980 | 9 | 64.7 | 31 | ***** | 91. | 6 | 36. | 24 | 121.0 | ****** | 112.0 | ****** | 4.431 | 31 | .73 | 2.25 | 8 |
| BROKEN BOW 1 N | 1162 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 6.610 | 31 | 2.78 | 3.51 | 8 |
| BROKEN BOW DAM | 1168 | 9 | 60.5 | 31 | ***** | 87. | 7 | 35. | 24 | 195.0 | ****** | 56.5 | ****** | 4.340 | 31 | ***** | 3.20 | 7 |
| CARNASAW TWR | 1499 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 5.010 | 31 | .87 | 3.38 | 8 |
| CARTER TWR | 1544 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 5.470 | 31 | .89 | 2.13 | 8 |
| FANSHAWE | 3065 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.370 | 31 | .29 | 1.22 | 9 |
| FLAGPOLE TWR | 3169 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.970 | 31 | ***** | 1.53 | 9 |
| HEAVENER 1 SE | 4008 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.960 | 31 | .66 | 1.50 | 9 |
| HEE MT TWR | 4017 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.092 | 30 | ***** | 2.56 | 8 |
| HUGO | 4384 | 9 | 62.7 | 31 | -2.5 | 88. | 6 | 35. | 23 | 153.0 | 59.0 | 82.0 | -19.0 | 3.730 | 31 | -.21 | 2.10 | 8 |
| IDABEL | 4451 | 9 | 61.7 | 31 | -2.4 | 89. | 8 | 35. | 24 | 189.0 | 74.0 | 86.0 | -1.0 | 4.441 | 31 | .60 | 2.18 | 8 |
| JADIE TOWER | 4560 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | .620 | 31 | ***** | .38 | 22 |
| POTEAU W W | 7254 | 9 | 59.1 | 31 | ***** | 86. | 6 | 30. | 25 | 222.5 | ****** | 40.0 | ****** | 4.150 | 31 | ***** | 1.61 | 7 |
| SMITHVILLE 1 W | 8285 | 9 | 59.1 | 30 | ***** | 86. | 4 | 27. | 22 | 225.0 | ****** | 49.0 | ****** | 9.950 | 30 | ***** | 6.60 | 8 |
| SPIRO | 8416 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.360 | 31 | .05 | 1.57 | 9 |
| TUSKAHOMA | 9023 | 9 | 61.9 | 31 | ***** | 86. | 6 | 29. | 23 | 174.0 | ****** | 79.0 | ****** | 3.621 | 31 | ***** | 2.00 | 9 |
| VALLIANT 3 W | 9118 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 7.521 | 31 | 3.90 | 3.60 | 8 |
| WILBURTON 9 ENE | 9634 | 9 | 60.5 | 31 | -2.3 | 86. | 6 | 29. | 23 | 198.0 | 57.0 | 60.0 | -13.0 | 3.050 | 31 | -.50 | 1.40 | 8 |

## OCTOBER 1990 CLIMATE DIVISION SUMMARY

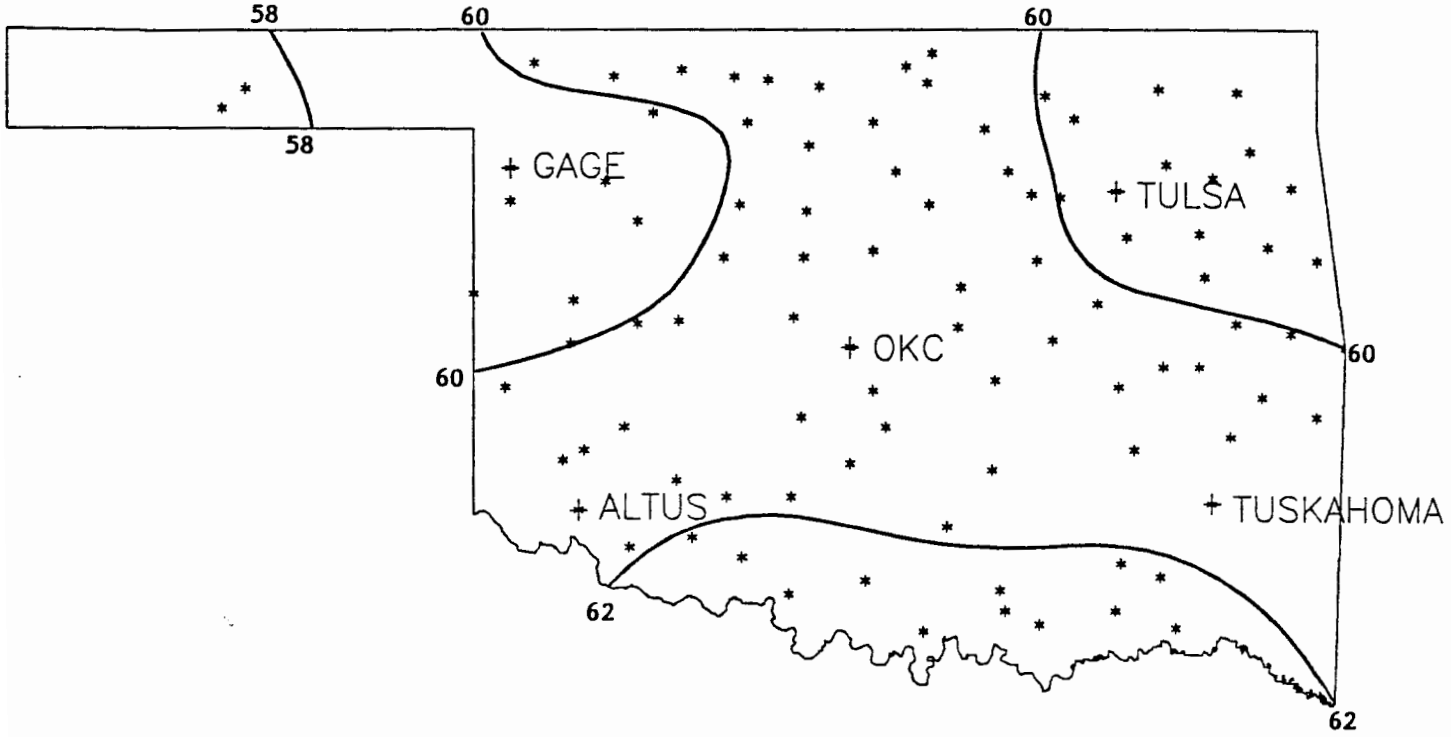
| CLIMATE DIV | MEAN TEMP | NUM STA | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEGREE DAYS | DEV FROM NORM | COOL DEGREE DAYS | DEV FROM NORM | TOT PPT | NUM STA | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 57.4 | 11 | -1.7 | 95.0 | 17 | 24.0 | 21 | 254.8 | 37.4 | 21.7 | -13.5 | .40 | 14 | -.90 | .55 | 9 |
| 2 | 60.0 | 15 | -2.0 | 93.0 | 7 | 24.0 | 22 | 199.3 | 45.2 | 43.6 | -18.0 | 1.12 | 24 | -1.11 | 1.14 | 9 |
| 3 | 59.6 | 19 | -2.1 | 89.0 | 4 | 26.0 | 23 | 211.4 | 45.6 | 45.1 | -17.3 | 2.34 | 25 | -.87 | 3.30 | 9 |
| 4 | 59.8 | 9 | -2.4 | 89.0 | 6 | 25.0 | 22 | 195.1 | 49.0 | 33.1 | -26.4 | .74 | 21 | -1.45 | .82 | 9 |
| 5 | 61.3 | 14 | -1.7 | 90.0 | 6 | 27.0 | 22 | 171.5 | 35.4 | 56.3 | -15.7 | 1.61 | 31 | -1.20 | 1.50 | 2 |
| 6 | 60.3 | 11 | -2.6 | 88.0 | 6 | 28.0 | 22 | 197.5 | 58.5 | 54.1 | -21.1 | 3.14 | 27 | -.27 | 3.65 | 9 |
| 7 | 61.7 | 10 | -2.2 | 93.0 | 6 | 25.0 | 22 | 159.7 | 42.1 | 55.9 | -26.6 | 1.17 | 20 | -1.43 | 2.23 | 8 |
| 8 | 62.1 | 15 | -3.1 | 93.0 | 6 | 26.0 | 22 | 162.9 | 66.2 | 73.7 | -30.0 | 2.29 | 30 | -1.08 | 3.22 | 9 |
| 9 | 61.2 | 10 | -2.7 | 91.0 | 6 | 27.0 | 22 | 186.6 | 68.1 | 69.2 | -15.6 | 4.43 | 19 | .67 | 6.60 | 8 |



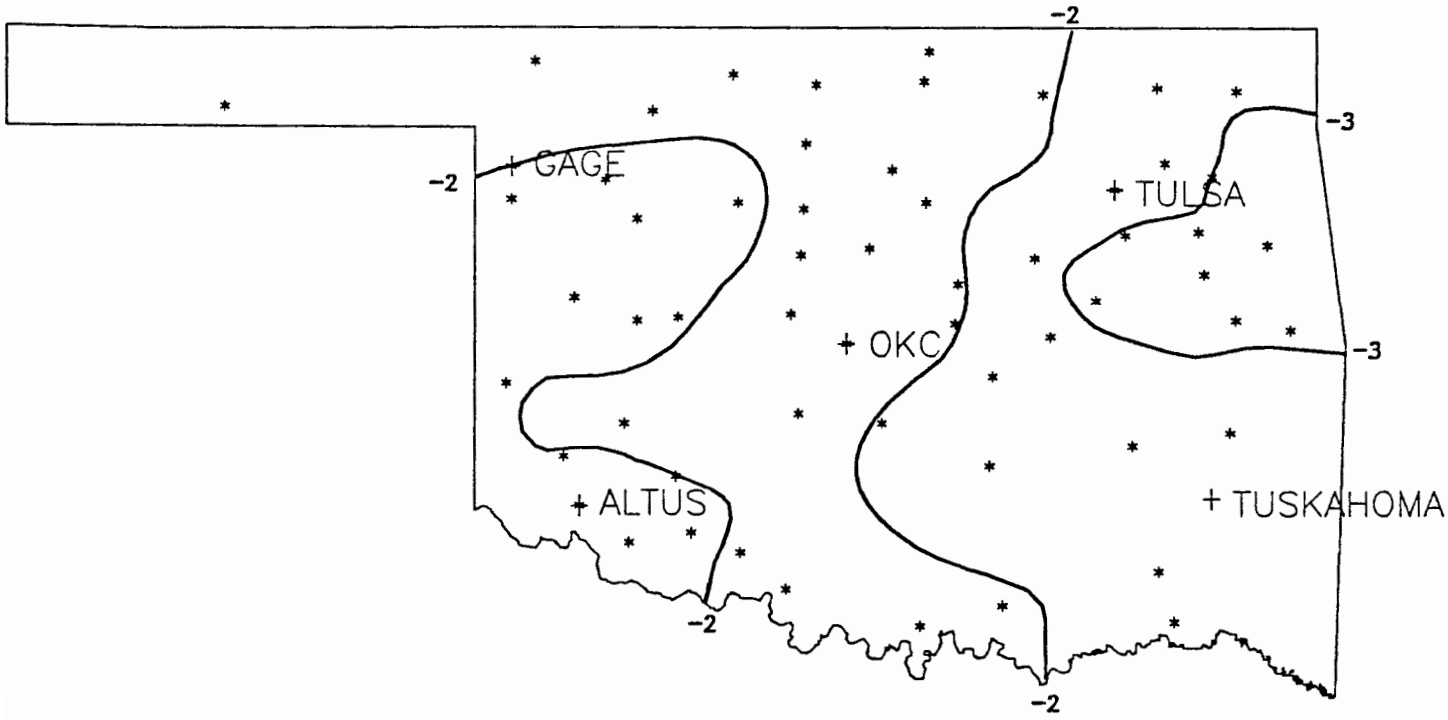

**OCTOBER 1990 TOTAL PRECIPITATION**
**(Inches)**



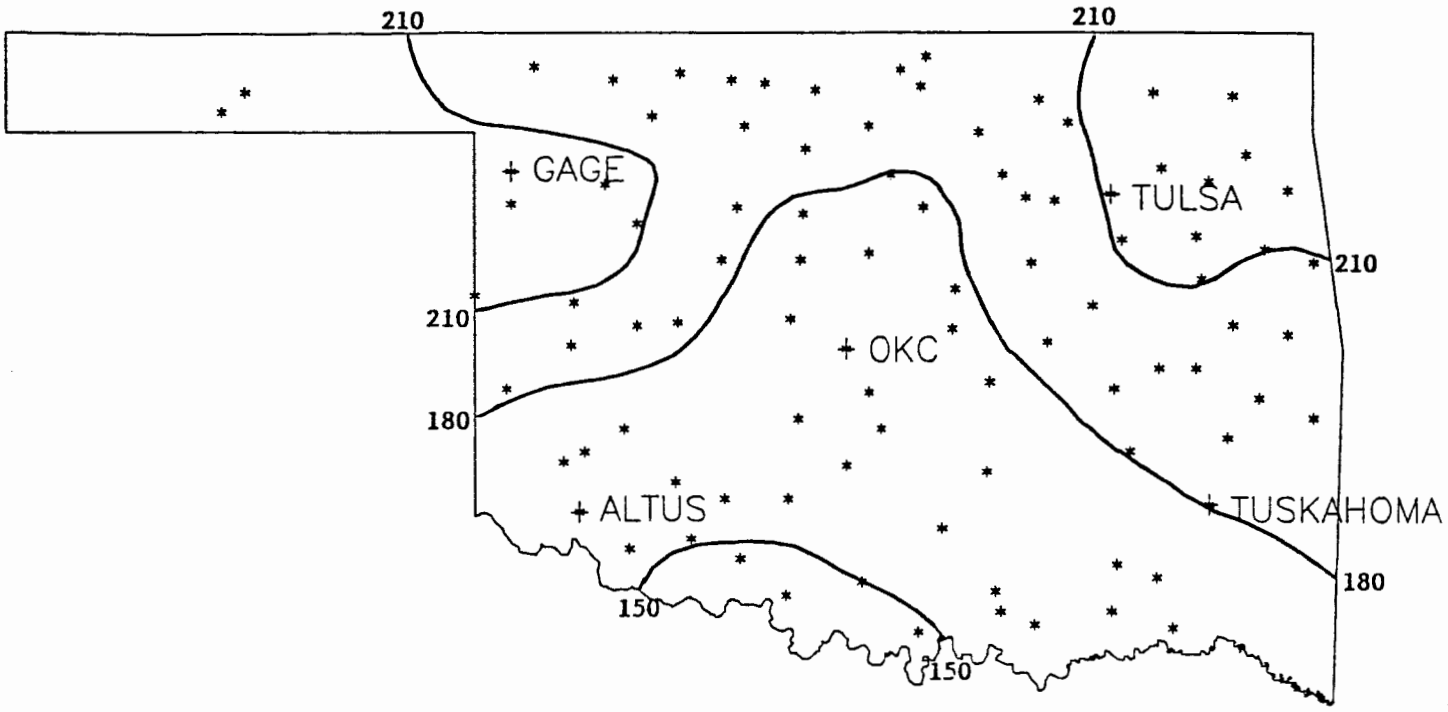

**OCTOBER 1990 DEVIATION FROM NORMAL PRECIPITATION**
**(Inches)**



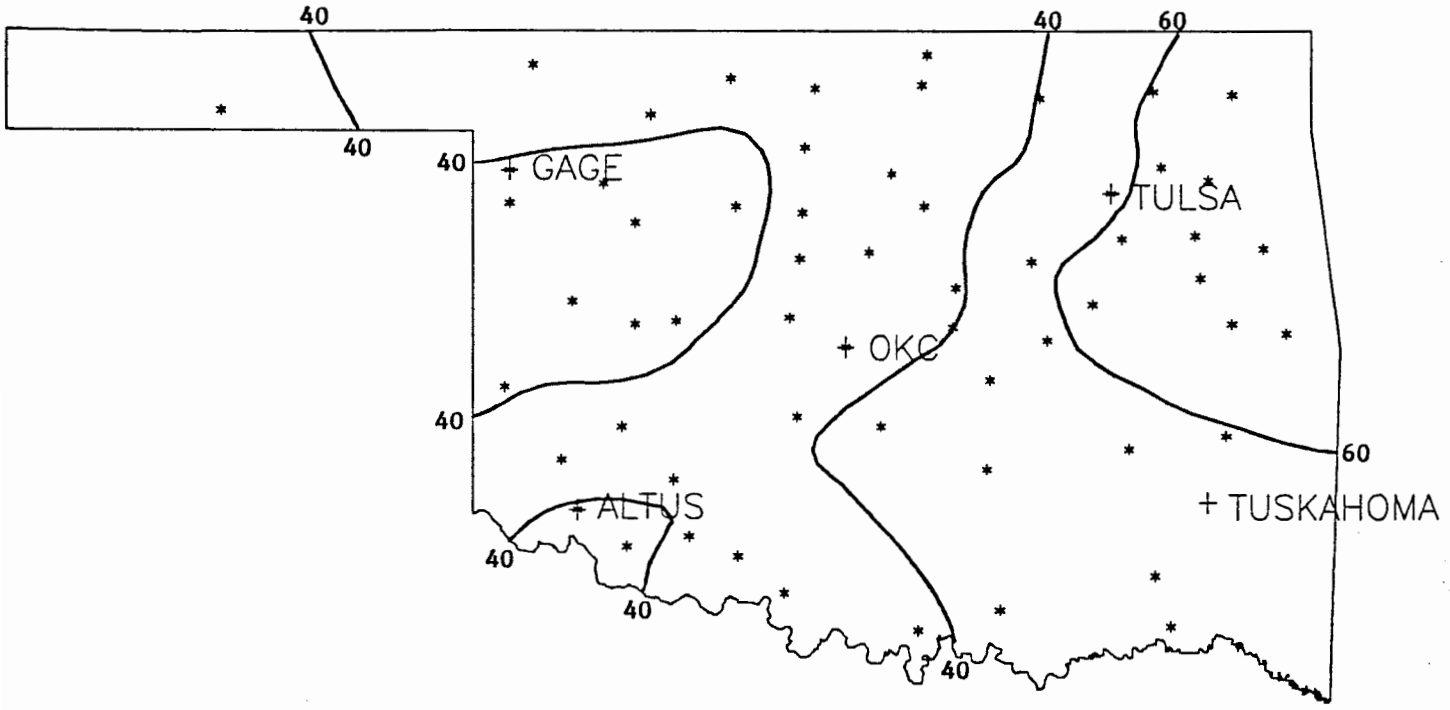

**OCTOBER 1990 AVERAGE MONTHLY TEMPERATURES**
**(Degrees F)**




**OCTOBER 1990 DEVIATION FROM NORMAL TEMPERATURES**
**(Degrees F)**

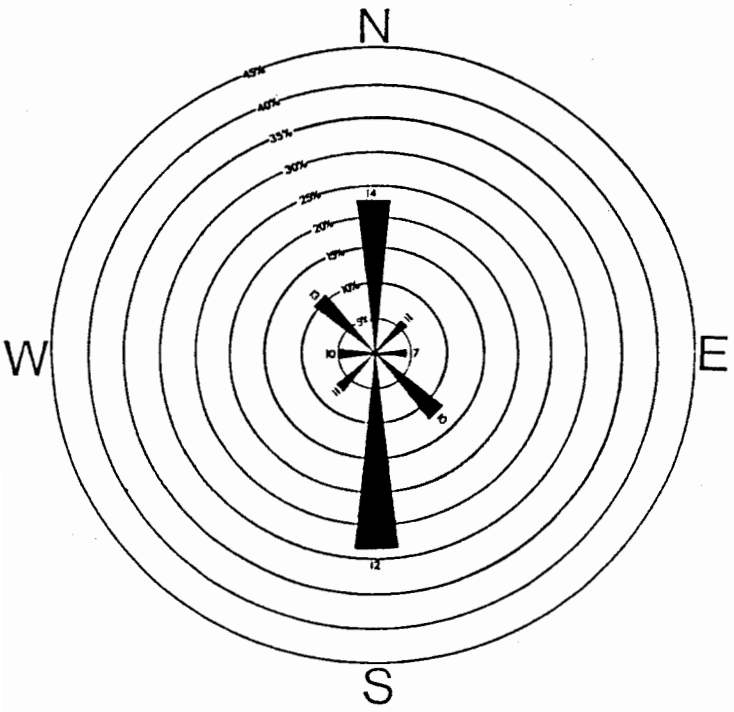


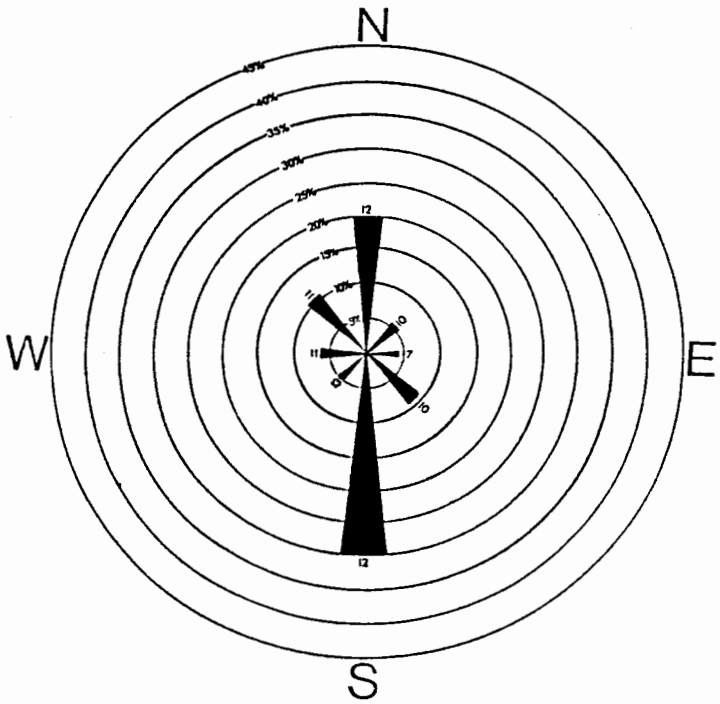

OCTOBER 1990 HEATING DEGREE DAYS




OCTOBER 1990 DEVIATION FROM NORMAL HEATING DEGREE DAYS

December wind roses for Oklahoma City and Tulsa for 10-year (1965-1974) mean winds (data adapted from NOAA Airport Climatology Series). Percents represent the percentage for winds coming from a direction. The numbers at the end of the bars indicate the average speed (miles per hour) of winds from that direction.



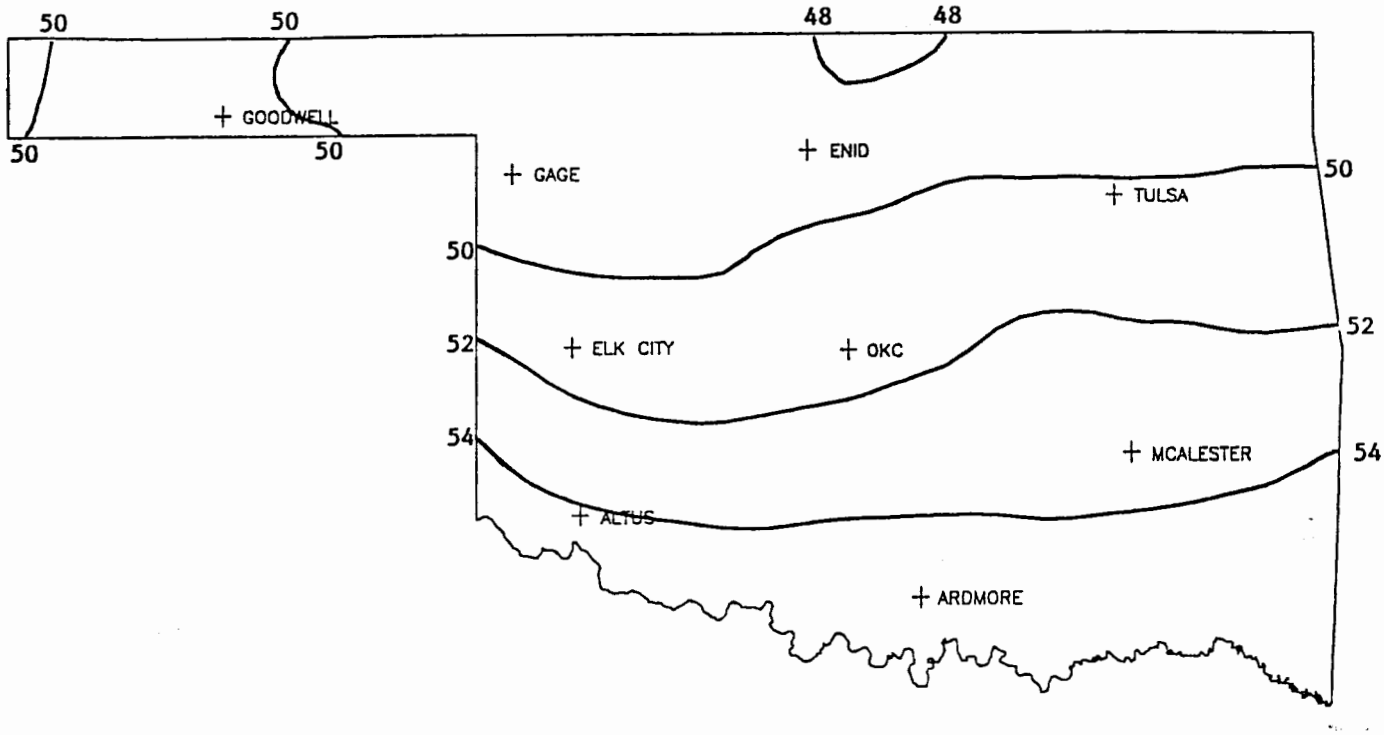

## DECEMBER 1990 SUNRISE AND SUNSET

### Oklahoma City

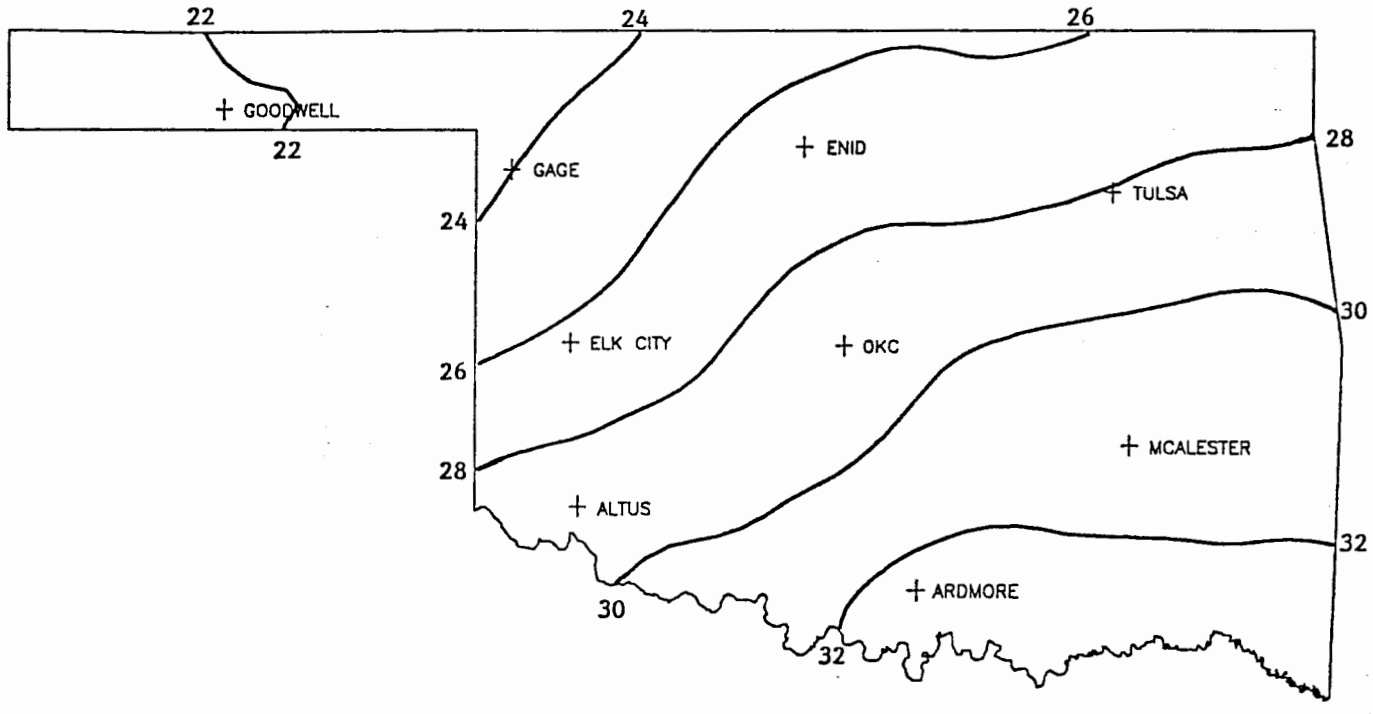
| DATE | SUNRISE | SUNSET | DAYLIGHT |
|---|---|---|---|
| 901201 | 7:19AM | 5:21PM LT | 10: 1 |
| 901202 | 7:20AM | 5:21PM LT | 10: 0 |
| 901203 | 7:21AM | 5:21PM LT | 9:60 |
| 901204 | 7:22AM | 5:20PM LT | 9:59 |
| 901205 | 7:23AM | 5:20PM LT | 9:58 |
| 901206 | 7:23AM | 5:20PM LT | 9:57 |
| 901207 | 7:24AM | 5:20PM LT | 9:56 |
| 901208 | 7:25AM | 5:20PM LT | 9:55 |
| 901209 | 7:26AM | 5:21PM LT | 9:55 |
| 901210 | 7:27AM | 5:21PM LT | 9:54 |
| 901211 | 7:27AM | 5:21PM LT | 9:54 |
| 901212 | 7:28AM | 5:21PM LT | 9:53 |
| 901213 | 7:29AM | 5:21PM LT | 9:53 |
| 901214 | 7:29AM | 5:21PM LT | 9:52 |
| 901215 | 7:30AM | 5:22PM LT | 9:52 |
| 901216 | 7:31AM | 5:22PM LT | 9:51 |
| 901217 | 7:31AM | 5:22PM LT | 9:51 |
| 901218 | 7:32AM | 5:23PM LT | 9:51 |
| 901219 | 7:32AM | 5:23PM LT | 9:51 |
| 901220 | 7:33AM | 5:23PM LT | 9:50 |
| 901221 | 7:33AM | 5:24PM LT | 9:50 |
| 901222 | 7:34AM | 5:24PM LT | 9:50 |
| 901223 | 7:34AM | 5:25PM LT | 9:50 |
| 901224 | 7:35AM | 5:25PM LT | 9:50 |
| 901225 | 7:35AM | 5:26PM LT | 9:50 |
| 901226 | 7:36AM | 5:26PM LT | 9:51 |
| 901227 | 7:36AM | 5:27PM LT | 9:51 |
| 901228 | 7:36AM | 5:27PM LT | 9:51 |
| 901229 | 7:37AM | 5:28PM LT | 9:51 |
| 901230 | 7:37AM | 5:29PM LT | 9:52 |
| 901231 | 7:37AM | 5:29PM LT | 9:52 |

### Tulsa

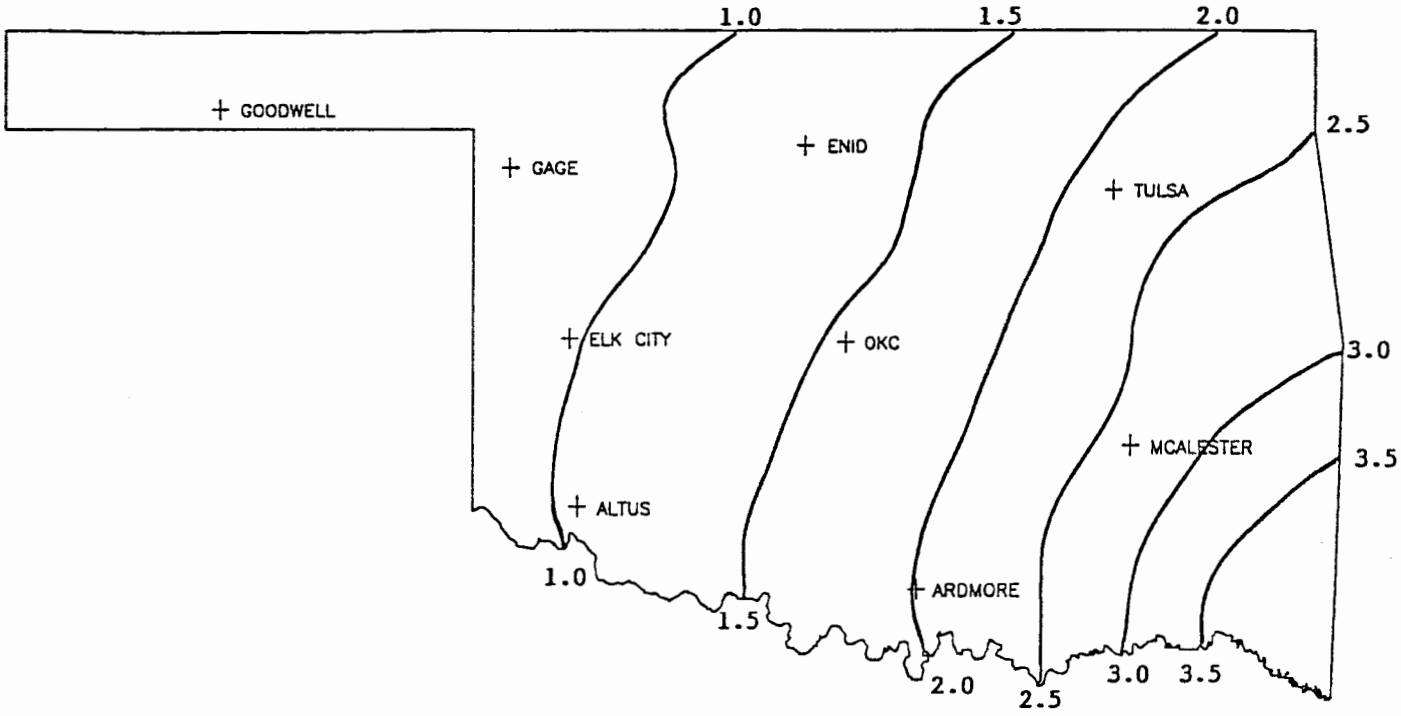
| DATE | SUNRISE | SUNSET | DAYLIGHT |
|---|---|---|---|
| 901201 | 7:14AM | 5:12PM LT | 9:58 |
| 901202 | 7:15AM | 5:12PM LT | 9:57 |
| 901203 | 7:16AM | 5:12PM LT | 9:56 |
| 901204 | 7:17AM | 5:12PM LT | 9:55 |
| 901205 | 7:18AM | 5:12PM LT | 9:54 |
| 901206 | 7:19AM | 5:12PM LT | 9:53 |
| 901207 | 7:19AM | 5:12PM LT | 9:52 |
| 901208 | 7:20AM | 5:12PM LT | 9:52 |
| 901209 | 7:21AM | 5:12PM LT | 9:51 |
| 901210 | 7:22AM | 5:12PM LT | 9:50 |
| 901211 | 7:22AM | 5:12PM LT | 9:50 |
| 901212 | 7:23AM | 5:12PM LT | 9:49 |
| 901213 | 7:24AM | 5:12PM LT | 9:48 |
| 901214 | 7:25AM | 5:13PM LT | 9:48 |
| 901215 | 7:25AM | 5:13PM LT | 9:48 |
| 901216 | 7:26AM | 5:13PM LT | 9:47 |
| 901217 | 7:26AM | 5:13PM LT | 9:47 |
| 901218 | 7:27AM | 5:14PM LT | 9:47 |
| 901219 | 7:28AM | 5:14PM LT | 9:46 |
| 901220 | 7:28AM | 5:15PM LT | 9:46 |
| 901221 | 7:29AM | 5:15PM LT | 9:46 |
| 901222 | 7:29AM | 5:15PM LT | 9:46 |
| 901223 | 7:30AM | 5:16PM LT | 9:46 |
| 901224 | 7:30AM | 5:16PM LT | 9:46 |
| 901225 | 7:31AM | 5:17PM LT | 9:46 |
| 901226 | 7:31AM | 5:17PM LT | 9:46 |
| 901227 | 7:31AM | 5:18PM LT | 9:47 |
| 901228 | 7:32AM | 5:19PM LT | 9:47 |
| 901229 | 7:32AM | 5:19PM LT | 9:47 |
| 901230 | 7:32AM | 5:20PM LT | 9:48 |
| 901231 | 7:32AM | 5:20PM LT | 9:48 |




30-YEAR MEAN DECEMBER MAXIMUM TEMPERATURE




30-YEAR MEAN DECEMBER DAILY MINIMUM TEMPERATURE




30-YEAR MEAN DECEMBER PRECIPITATION

## 30- and 90-DAY NATIONAL WEATHER SERVICE OUTLOOK

### 30-DAY OUTLOOK (MID-NOVEMBER-MID-DECEMBER)

Precipitation - Above Normal Extreme Southeast
Near Normal Elsewhere

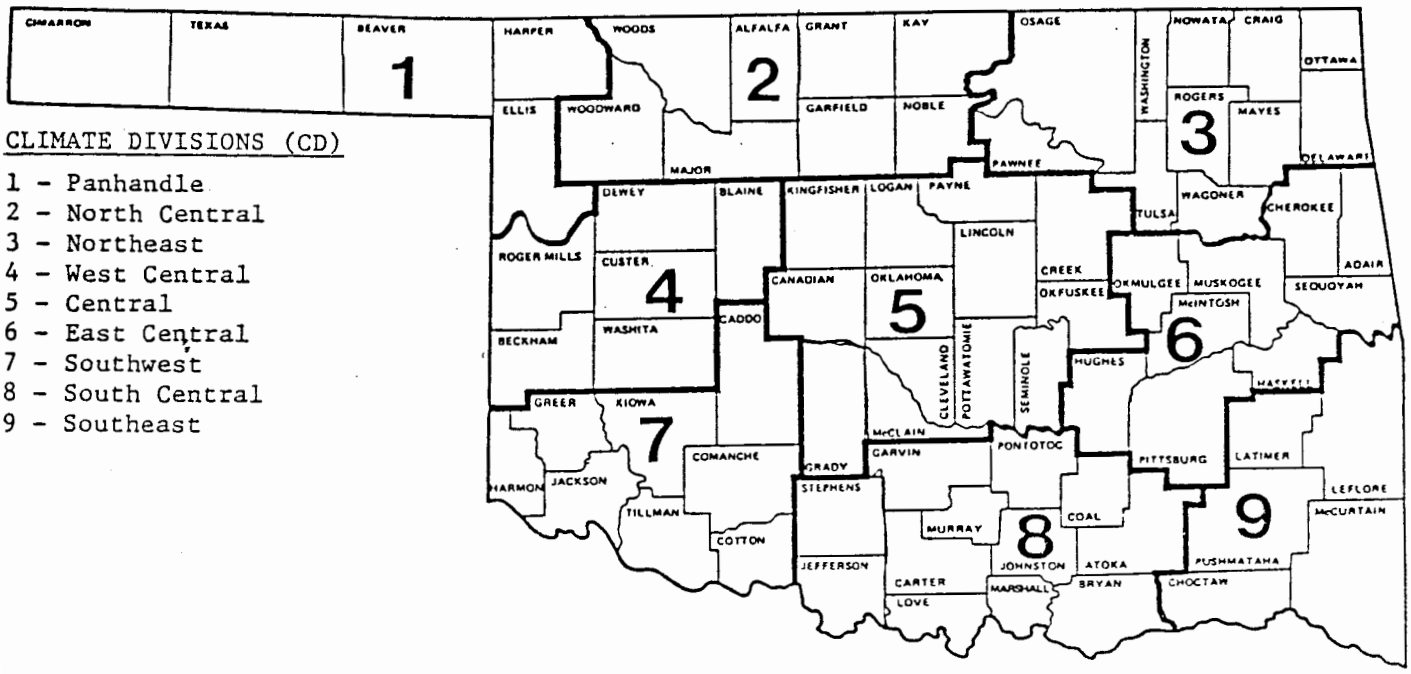
Temperature - Above Normal Southeast
Near Normal Elsewhere

### 90-DAY OUTLOOK (NOVEMBER-JANUARY)

Precipitation - Near Normal Statewide

Temperature - Below Normal Statewide

# O K L A H O M A




CLIMATE DIVISIONS (CD)

1 - Panhandle
2 - North Central
3 - Northeast
4 - West Central
5 - Central
6 - East Central
7 - Southwest
8 - South Central
9 - Southeast

## EXPLANATION OF TABLES

Two kinds of tables appear in this summary. The first is a set of tables containing all reporting stations grouped by climate division. The figure above shows the locations of the climate divisions. Each table contains the following information for each station:

Station Name:

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

Climate Division: See the figure above.

Number of Temperature Observations: These 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 Maximum: The maximum daily maximum temperature observed during the current month and year and the day which it occurred.

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

Heating Degree Days: HDD are calculated each day of the month for which there is a temperature report and summed. They 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. For February 1984 HDD would be calculated as:

$$\sum_{i=1}^{29} 65-((TMAX_i + TMIN_i)/2)$$

Deviation from Normal Heating Degree Days: 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 summed. They 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. For June, CDD would be calculated as:

$$\sum_{i=1}^{30} ((TMAX_i + TMIN_i)/2)-65$$

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.

**DECEMBER 1990**

## CLIMATE CALENDAR - OKLAHOMA CITY

The data on this calendar are for Oklahoma City. Normal values are calculated for the period 1948-1987. Extremes are found for the period of record (1924-present).

| Normal 1 | | Actual |
|---|---|---|
| 54.7 | max | |
| 33.3 | min | |
| .018 | pcpn | |
| 21 | HDD | |
| 0 | CDD | |
| Highest Max | | 76-1983 |
| Lowest Max | | 20-1985 |
| Lowest Min | | 12-1985 |
| Highest Min | | 57-1933 |
| Greatest pcpn | | .57-1958 |

| Normal 2 | | Actual |
|---|---|---|
| 55.5 | max | |
| 33.2 | min | |
| .068 | pcpn | |
| 20 | HDD | |
| 0 | CDD | |
| Highest Max | | 77-1975 |
| Lowest Max | | 24-1985 |
| Lowest Min | | 10-1985 |
| Highest Min | | 56-1951 |
| Greatest pcpn | | 1.59-1953 |

| Normal 3 | | Actual |
|---|---|---|
| 56.4 | max | |
| 32.7 | min | |
| .025 | pcpn | |
| 20 | HDD | |
| 0 | CDD | |
| Highest Max | | 74-1975 |
| Lowest Max | | 30-1978 |
| Lowest Min | | 17-1978 |
| Highest Min | | 52-1961 |
| Greatest pcpn | | 1.39-1947 |

| Normal 4 | | Actual |
|---|---|---|
| 55.4 | max | |
| 33.9 | min | |
| .032 | pcpn | |
| 20 | HDD | |
| 0 | CDD | |
| Highest Max | | 75-1954 |
| Lowest Max | | 25-1972 |
| Lowest Min | | 16-1978 |
| Highest Min | | 51-1956 |
| Greatest pcpn | | 2.59-1930 |

| Normal 5 | | Actual |
|---|---|---|
| 55.7 | max | |
| 33.8 | min | |
| .045 | pcpn | |
| 20 | HDD | |
| 0 | CDD | |
| Highest Max | | 77-1975 |
| Lowest Max | | 32-1937 |
| Lowest Min | | 10-1950 |
| Highest Min | | 59-1980 |
| Greatest pcpn | | 1.00-1935 |

| Normal 6 | | Actual |
|---|---|---|
| 51.8 | max | |
| 32.3 | min | |
| .020 | pcpn | |
| 23 | HDD | |
| 0 | CDD | |
| Highest Max | | 77-1939 |
| Lowest Max | | 19-1972 |
| Lowest Min | | 5-1950 |
| Highest Min | | 63-1980 |
| Greatest pcpn | | 1.99-1926 |

| Normal 7 | | Actual |
|---|---|---|
| 52.6 | max | |
| 30.6 | min | |
| .045 | pcpn | |
| 23 | HDD | |
| 0 | CDD | |
| Highest Max | | 80-1966 |
| Lowest Max | | 24-1950 |
| Lowest Min | | 5-1950 |
| Highest Min | | 62-1980 |
| Greatest pcpn | | 1.23-1980 |

| Normal 8 | | Actual |
|---|---|---|
| 50.1 | max | |
| 30.1 | min | |
| .075 | pcpn | |
| 25 | HDD | |
| 0 | CDD | |
| Highest Max | | 71-1970 |
| Lowest Max | | 26-1927 |
| Lowest Min | | 7-1927 |
| Highest Min | | 61-1946 |
| Greatest pcpn | | 1.50-1980 |

| Normal 9 | | Actual |
|---|---|---|
| 48.3 | max | |
| 28.6 | min | |
| .012 | pcpn | |
| 26 | HDD | |
| 0 | CDD | |
| Highest Max | | 71-1939 |
| Lowest Max | | 21-1932 |
| Lowest Min | | 10-1978 |
| Highest Min | | 56-1946 |
| Greatest pcpn | | .85-1943 |

| Normal 10 | | Actual |
|---|---|---|
| 50.0 | max | |
| 29.4 | min | |
| .081 | pcpn | |
| 25 | HDD | |
| 0 | CDD | |
| Highest Max | | 72-1939 |
| Lowest Max | | 24-1972 |
| Lowest Min | | 11-1977 |
| Highest Min | | 58-1965 |
| Greatest pcpn | | 1.06-1960 |

| Normal 11 | | Actual |
|---|---|---|
| 49.4 | max | |
| 28.5 | min | |
| .029 | pcpn | |
| 26 | HDD | |
| 0 | CDD | |
| Highest Max | | 75-1939 |
| Lowest Max | | 21-1961 |
| Lowest Min | | 8-1932 |
| Highest Min | | 52-1946 |
| Greatest pcpn | | 1.07-1946 |

| Normal 12 | | Actual |
|---|---|---|
| 48.6 | max | |
| 27.2 | min | |
| .011 | pcpn | |
| 27 | HDD | |
| 0 | CDD | |
| Highest Max | | 73-1973 |
| Lowest Max | | 17-1932 |
| Lowest Min | | 6-1932 |
| Highest Min | | 47-1984 |
| Greatest pcpn | | 1.19-1928 |

| Normal 13 | | Actual |
|---|---|---|
| 47.6 | max | |
| 27.4 | min | |
| .054 | pcpn | |
| 27 | HDD | |
| 0 | CDD | |
| Highest Max | | 77-1948 |
| Lowest Max | | 17-1958 |
| Lowest Min | | 6-1958 |
| Highest Min | | 62-1929 |
| Greatest pcpn | | .41-1928 |

| Normal 14 | | Actual |
|---|---|---|
| 48.9 | max | |
| 28.2 | min | |
| .080 | pcpn | |
| 26 | HDD | |
| 0 | CDD | |
| Highest Max | | 74-1933 |
| Lowest Max | | 18-1926 |
| Lowest Min | | 6-1958 |
| Highest Min | | 64-1948 |
| Greatest pcpn | | 1.52-1984 |

| Normal 15 | | Actual |
|---|---|---|
| 48.0 | max | |
| 27.5 | min | |
| .067 | pcpn | |
| 27 | HDD | |
| 0 | CDD | |
| Highest Max | | 75-1948 |
| Lowest Max | | 26-1926 |
| Lowest Min | | 3-1989 |
| Highest Min | | 59-1929 |
| Greatest pcpn | | .69-1959 |

| Normal 16 | | Actual |
|---|---|---|
| 51.0 | max | |
| 27.8 | min | |
| .029 | pcpn | |
| 25 | HDD | |
| 0 | CDD | |
| Highest Max | | 73-1939 |
| Lowest Max | | 21-1932 |
| Lowest Min | | 7-1989 |
| Highest Min | | 56-1929 |
| Greatest pcpn | | .56-1931 |

| Normal 17 | | Actual |
|---|---|---|
| 50.8 | max | |
| 28.4 | min | |
| .044 | pcpn | |
| 25 | HDD | |
| 0 | CDD | |
| Highest Max | | 75-1939 |
| Lowest Max | | 21-1965 |
| Lowest Min | | 2-1979 |
| Highest Min | | 45-1939 |
| Greatest pcpn | | 1.68-1959 |

| Normal 18 | | Actual |
|---|---|---|
| 49.5 | max | |
| 28.6 | min | |
| .033 | pcpn | |
| 26 | HDD | |
| 0 | CDD | |
| Highest Max | | 69-1982 |
| Lowest Max | | 19-1983 |
| Lowest Min | | 5-1964 |
| Highest Min | | 47-1939 |
| Greatest pcpn | | .83-1933 |

| Normal 19 | | Actual |
|---|---|---|
| 50.0 | max | |
| 28.8 | min | |
| .045 | pcpn | |
| 25 | HDD | |
| 0 | CDD | |
| Highest Max | | 75-1978 |
| Lowest Max | | 9-1983 |
| Lowest Min | | 3-1983 |
| Highest Min | | 54-1978 |
| Greatest pcpn | | 1.10-1987 |

| Normal 20 | | Actual |
|---|---|---|
| 49.7 | max | |
| 28.0 | min | |
| .043 | pcpn | |
| 26 | HDD | |
| 0 | CDD | |
| Highest Max | | 73-1966 |
| Lowest Max | | 21-1983 |
| Lowest Min | | 4-1983 |
| Highest Min | | 50-1967 |
| Greatest pcpn | | .43-1972 |

| Normal 21 | | Actual |
|---|---|---|
| 48.8 | max | |
| 26.5 | min | |
| .029 | pcpn | |
| 27 | HDD | |
| 0 | CDD | |
| Highest Max | | 68-1966 |
| Lowest Max | | 11-1983 |
| Lowest Min | | -2-1983 |
| Highest Min | | 51-1941 |
| Greatest pcpn | | .83-1942 |

| Normal 22 | | Actual |
|---|---|---|
| 51.5 | max | |
| 28.7 | min | |
| .016 | pcpn | |
| 25 | HDD | |
| 0 | CDD | |
| Highest Max | | 70-1933 |
| Lowest Max | | 4-1989 |
| Lowest Min | | -4-1989 |
| Highest Min | | 47-1979 |
| Greatest pcpn | | 2.01-1932 |

| Normal 23 | | Actual |
|---|---|---|
| 51.0 | max | |
| 30.1 | min | |
| .033 | pcpn | |
| 24 | HDD | |
| 0 | CDD | |
| Highest Max | | 70-1955 |
| Lowest Max | | 10-1983 |
| Lowest Min | | -8-1989 |
| Highest Min | | 57-1965 |
| Greatest pcpn | | 1.80-1932 |

| Normal 24 | | Actual |
|---|---|---|
| 49.4 | max | |
| 27.7 | min | |
| .096 | pcpn | |
| 26 | HDD | |
| 0 | CDD | |
| Highest Max | | 86-1955 |
| Lowest Max | | 3-1983 |
| Lowest Min | | 0-1983 |
| Highest Min | | 50-1955 |
| Greatest pcpn | | 1.34-1965 |

| Normal 25 | | Actual |
|---|---|---|
| 47.7 | max | |
| 26.6 | min | |
| .030 | pcpn | |
| 28 | HDD | |
| 0 | CDD | |
| Highest Max | | 71-1950 |
| Lowest Max | | 13-1983 |
| Lowest Min | | -1-1983 |
| Highest Min | | 49-1936 |
| Greatest pcpn | | 1.05-1987 |

| Normal 26 | | Actual |
|---|---|---|
| 49.3 | max | |
| 27.3 | min | |
| .017 | pcpn | |
| 26 | HDD | |
| 0 | CDD | |
| Highest Max | | 68-1968 |
| Lowest Max | | 25-1983 |
| Lowest Min | | 11-1983 |
| Highest Min | | 56-1936 |
| Greatest pcpn | | 1.15-1940 |

| Normal 27 | | Actual |
|---|---|---|
| 49.6 | max | |
| 28.2 | min | |
| .056 | pcpn | |
| 26 | HDD | |
| 0 | CDD | |
| Highest Max | | 75-1946 |
| Lowest Max | | 26-1983 |
| Lowest Min | | 15-1938 |
| Highest Min | | 56-1946 |
| Greatest pcpn | | 1.06-1927 |

| Normal 28 | | Actual |
|---|---|---|
| 48.1 | max | |
| 29.7 | min | |
| .067 | pcpn | |
| 26 | HDD | |
| 0 | CDD | |
| Highest Max | | 72-1947 |
| Lowest Max | | 23-1983 |
| Lowest Min | | 8-1983 |
| Highest Min | | 56-1984 |
| Greatest pcpn | | 1.85-1979 |

| Normal 29 | | Actual |
|---|---|---|
| 48.5 | max | |
| 28.4 | min | |
| .035 | pcpn | |
| 26 | HDD | |
| 0 | CDD | |
| Highest Max | | 76-1951 |
| Lowest Max | | 20-1983 |
| Lowest Min | | 3-1983 |
| Highest Min | | 63-1984 |
| Greatest pcpn | | .23-1972 |

| Normal 30 | | Actual |
|---|---|---|
| 45.7 | max | |
| 26.7 | min | |
| .028 | pcpn | |
| 29 | HDD | |
| 0 | CDD | |
| Highest Max | | 88-1927 |
| Lowest Max | | 21-1978 |
| Lowest Min | | 3-1983 |
| Highest Min | | 55-1965 |
| Greatest pcpn | | .30-1974 |

| Normal 31 | | Actual |
|---|---|---|
| 45.4 | max | |
| 25.9 | min | |
| .097 | pcpn | |
| 29 | HDD | |
| 0 | CDD | |
| Highest Max | | 79-1951 |
| Lowest Max | | 17-1978 |
| Lowest Min | | 1-1927 |
| Highest Min | | 55-1965 |
| Greatest pcpn | | 1.03-1984 |

## DECEMBER AVERAGES

| | | |
|---|---|---|
| Temperature | : | 39.7°F |
| Precipitation | : | 1.36" |
| Heating Degree Days: | | 775 |
| Cooling Degree Days: | | 0 |