

OKLAHOMA MONTHLY SUMMARY MARCH 1991

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Coming on the heels of the fourth driest February on record, the 1.97 inches of precipitation which fell in March seemed a welcome change. Despite periods of heavy rain however, March ended 0.46 inch below normal. The period January-March recorded just 3.70 inches of precipitation, 1.35 inches below normal and only 29 percent of the total for the same period last year. The warmth of the first part of this year continued into March, with numerous record maximum temperatures set during the first part of the month. Preliminary data indicate that the average temperature of 53.9 degrees was 4.0 degrees above normal, the 22nd warmest on record. The first three months of the year are also listed as the 22nd warmest and 27th driest in one hundred years of record-keeping in Oklahoma.

March began with record heat and some much-needed rainfall. Temperatures on the 1st climbed as high as 90 degrees at Chandler, a record for the date. The passage of a cold front through Oklahoma that evening brought rainfall in excess of one inch to locations in eastern Oklahoma. It also produced 0.30 inch of precipitation at Buffalo, the heaviest since January 10. Up to six inches of snow were also recorded across counties in the panhandle. Cold air covered much of the state for the next few days, with many areas being held to maximum temperatures in the 30's and 40's.

Warm air surged back into the state on the 5th, as maximum temperatures once again climbed to the 90's. Stations in many parts of the state set record temperatures on the 5th-6th, including Waurika, Mangum, Tishomingo and Carnegie, all at 94 degrees. Rain from the early part of the month was not enough to prevent the combination of warm temperatures and high winds from spreading grass fires across large regions of the state. A grass fire spread across a region over six miles in length near Erick on the 5th, and 6,000 acres were burned in Kay County from the 9th to 11th.

A cold front passed through the state on the 12th, but instead of bringing rain, only strong winds and dust from Kansas came in its wake. The winds helped to spread a fire over 2,000 acres in the Wichita Mountains Wildlife Refuge. Governor Walters issued a statewide ban on outdoor burning on the 12th across all 77 counties in Oklahoma.

As springtime approached, so did stormy weather. A front passed through Oklahoma on the 16th, bringing with it widespread rain. The burning ban was lifted on the 20th, as more storms moved through the state. March 21st, the first full day of spring, certainly exhibited spring-like weather. Several damaging tornadoes ripped across southern Oklahoma, including one which caused extensive damage in Ada. Other tornadoes were reported near Ardmore and Atoka.

Much of the heaviest rain during the period fell across southern and eastern Oklahoma. Central portions of the state, which generally had remained dry, erupted in wildfires on the 22nd. Winds gusting in excess of 60 miles per hour fanned flames from grass fires, causing extensive damage. The fires in the northeastern Oklahoma City area were reportedly the worst in twenty years.

The springtime storms were not yet finished. Another storm pattern developed in northwestern Oklahoma on the 26th. A single "supercell" thunderstorm developed over Woodward County near 4:00 p.m. Just after dark it began producing tornadoes across Grant and Kay Counties, causing nearly \$3 million in damages. The storm continued to produce tornadoes into eastern Kansas. The strongest tornadoes were rated at F3 (moderate strength), on a scale of 0-5.

The old saying of "March comes in like a lion and goes out like a lamb" proved reasonably accurate this year. The high winds and heat at the beginning of the month, and storms late in the month, gave way to mild temperatures and dry conditions at the end of March.

Mark A. Shafer

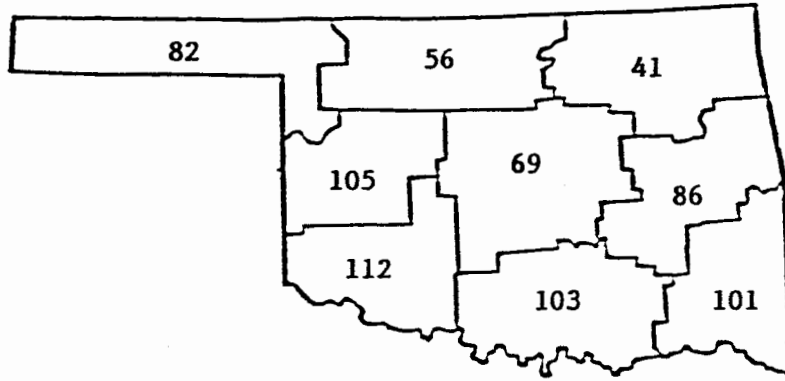
TABLE OF 1990/1991 COMPARISONS

| Station | March Temperature (F) | | March Precipitation (in.) | |
|---------------|--------------------------|------|------------------------------|------|
| | 1990 | 1991 | 1990 | 1991 |
| Arnett | 47.1 | 49.1 | 1.43 | .82 |
| Enid | 51.0 | 50.7 | 4.07 | 1.28 |
| Mutual | 46.5 | 50.0 | 1.87 | 1.25 |
| Tulsa | 53.8 | 56.4 | 7.21 | 1.02 |
| Elk City | 51.0 | 54.8 | 1.73 | 1.67 |
| Oklahoma City | 53.2 | 55.3 | 4.76 | 1.59 |
| McAlester | 54.9 | 55.7 | 7.40 | 2.38 |
| Altus Irr Sta | 53.6 | 56.0 | 4.06 | 1.59 |
| Durant | 53.9 | 55.0 | 9.83 | 2.74 |
| Ada | 52.1 | 55.1 | 8.59 | 2.09 |
| Antlers | 55.8 | 56.5 | 8.29 | 4.56 |

EXTREMES

| Variable | Station | Division | Observation | Date |
|--------------------------|----------------------------------|-----------|-------------|-------|
| Minimum temperatures (F) | Buffalo | 1 | 15 | 3 |
| Maximum temperatures (F) | Carnegie | 7 | 94 | 5 |
| | Mangum | 7 | 94 | 5 |
| | Tishomingo | 8 | 94 | 5 |
| | Waurika | 8 | 94 | 5 |
| | Waurika Dam | 8 | 94 | 6 |
| | Maximum 24-hour precipitation | Tuskahoma | 9 | 3.35" |

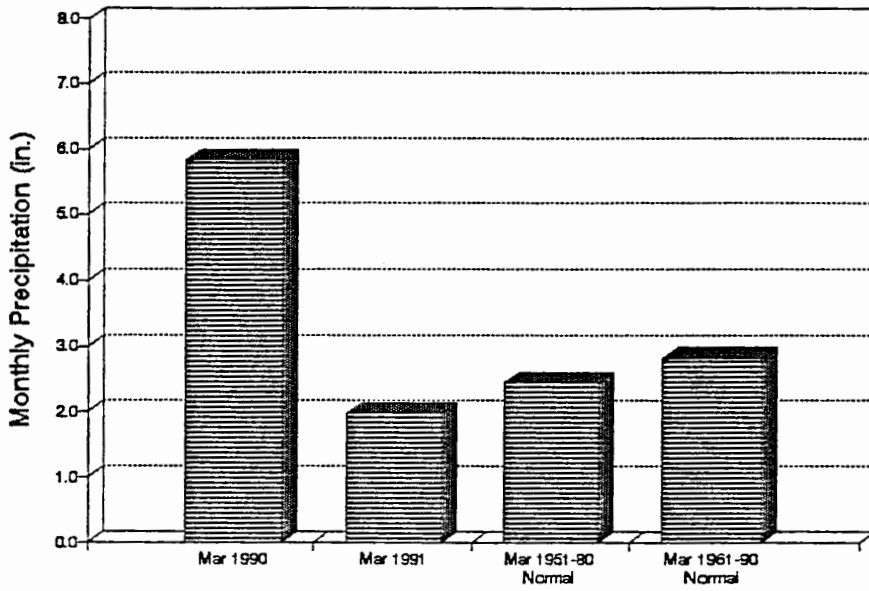
March 1991 percent of normal precipitation.



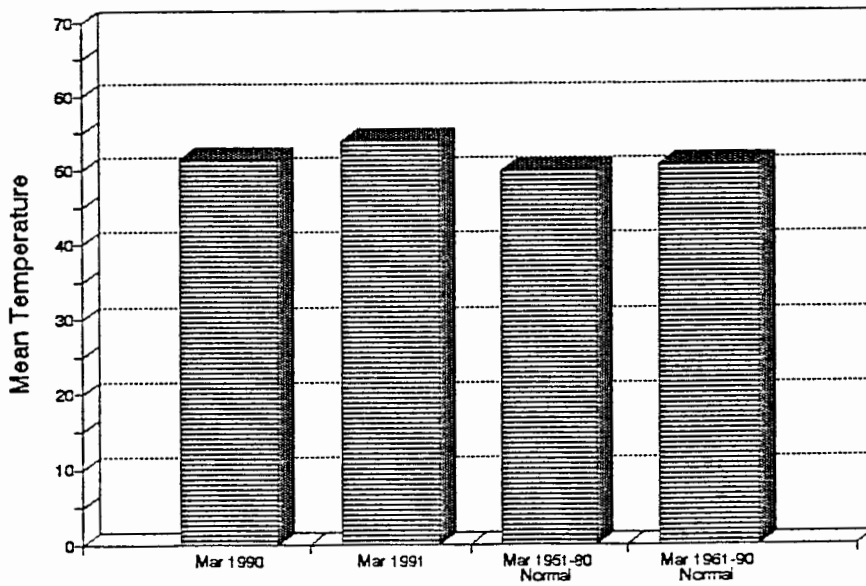
EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
MARCH, 1991

| CD | MAX | | | MIN | | | MONTHLY | | 24-HOUR | | |
|----|------|------|-------------|------|------|--------------|---------|-----------|---------|------|-----------|
| | TEMP | DATE | LOCATION | TEMP | DATE | LOCATION | PRECIP | LOCATION | PRECIP | DATE | LOCATION |
| 1 | 91 | 5 | GAGE | 15 | 3 | BUFFALO | 1.40 | BUFFALO | .57 | 29 | FARGO |
| | | | | | | | | | .57 | 17 | LAVERNE |
| 2 | 91 | 6 | BILLINGS | 18 | 8 | FREEDOM | 1.76 | HARDY | .92 | 26 | HARDY |
| 3 | 90 | 5 | MANNFORD | 21 | 7 | BARTLESVILLE | 2.29 | CLAREMORE | 1.00 | 1 | KANSAS |
| | | | RALSTON | | | | | | | | |
| 4 | 93 | 26 | ERICK | 21 | 8 | ERICK | 2.16 | WATONGA | 1.54 | 24 | LEEDEY |
| | | | WEATHERFORD | | | | | | | | |
| 5 | 92 | 5 | NORMAN | 22 | 14 | HENNESSEY | 3.18 | STELLA | 1.48 | 22 | KONAWA |
| | | | | 22 | 8 | STILLWATER | | | | | |
| 6 | 90 | 5 | HOLDENVILLE | 25 | 8 | TAHLEQUAH | 4.13 | CLAYTON | 2.10 | 22 | EUFULA |
| 7 | 94 | 5 | CARNEGIE | 22 | 8 | CARNEGIE | 3.34 | APACHE | 2.26 | 29 | APACHE |
| | | | MANGUM | | | | | | | | |
| 8 | 94 | 5 | WAURIKA | 25 | 10 | LINDSAY | 5.62 | DAISY | 2.90 | 22 | CANEY |
| | | | | 25 | 8 | MARLOW | | | | | |
| 9 | 91 | 5 | BOSWELL | 22 | 10 | TUSKAHOMA | 7.15 | TUSKAHOMA | 3.35 | 22 | TUSKAHOMA |

Comparison of Monthly Precipitation Statewide Average for Oklahoma



Comparison of Monthly Temperature Statewide Average for Oklahoma



MARCH 1991 SUMMARY FOR NORTHWEST DIVISION (CD1)

| NAME | ID | CD | DEV | | | | MIN | | HEAT DEG | | DEV FROM | | COOL DEG | | DEV FROM | | TOT NUM | | DEV FROM MAX | |
|----------------|--------|----|-----------|---------|-----------|----------|-----|------|----------|-------|----------|-----------|----------|-------|-----------|-------|---------|-----------|--------------|-----------|
| | | | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | DAY | TEMP | DAY | DAY | DEG | FROM NORM | DAY | DEG | FROM NORM | PPT | OBS | FROM NORM | MAX | 24-HR DAY |
| ARNETT | 332 | 1 | 49.1 | 31 | 3.7 | 87. | 6 | 21. | 15 | 491.5 | -122.5 | .0 | -6.0 | .824 | 31 | -.48 | .54 | 29 | | |
| BEAVER | 593 | 1 | 47.8 | 31 | 2.5 | 88. | 27 | 20. | 14 | 534.5 | -82.5 | 2.5 | -3.5 | 1.104 | 31 | -.07 | .48 | 17 | | |
| BOISE CITY 2 E | 908 | 1 | 46.0 | 31 | 1.9 | 78. | 26 | 15. | 8 | 588.5 | -59.5 | .0 | .0 | .656 | 31 | -.16 | .50 | 30 | | |
| BUFFALO | 1243 | 1 | 52.9 | 31 | 4.9 | 89. | 5 | 15. | 3 | 388.0 | -153.0 | 13.5 | -.5 | 1.400 | 31 | -.31 | .30 | 26 | | |
| FARGO | 3070 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.001 | 31 | -.29 | .57 | 29 | | |
| GAGE FAA APT | 3407 | 1 | 52.4 | 31 | 6.5 | 91. | 5 | 19. | 8 | 402.0 | -197.0 | 12.0 | 5.0 | .874 | 31 | -.31 | .45 | 29 | | |
| GATE | 3489 | 1 | 50.1 | 31 | ***** | 87. | 26 | 18. | 3 | 469.5 | ***** | 7.5 | ***** | 1.812 | 31 | ***** | .76 | 3 | | |
| GOODWELL RES | ST3628 | 1 | 46.9 | 31 | 2.1 | 84. | 6 | 19. | 14 | 560.0 | -72.0 | .0 | -6.0 | 1.063 | 31 | .28 | .44 | 17 | | |
| GUYMON | 3835 | 1 | 48.6 | 27 | ***** | 87. | 5 | 20. | 14 | 447.5 | ***** | 4.5 | ***** | .721 | 29 | ***** | .37 | 29 | | |
| HOOVER | 4298 | 1 | 47.3 | 31 | 2.1 | 86. | 6 | 17. | 14 | 548.0 | -73.0 | .0 | -7.0 | 1.300 | 31 | .07 | .43 | 17 | | |
| KENTON | 4766 | 1 | 45.7 | 31 | 1.7 | 78. | 26 | 15. | 8 | 597.5 | -53.5 | .0 | .0 | .940 | 31 | .18 | .40 | 30 | | |
| LAVERNE | 5045 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.251 | 31 | -.29 | .57 | 17 | | |
| OPTIMA LAKE | 6740 | 1 | 48.7 | 29 | ***** | 87. | 27 | 21. | 3 | 475.5 | ***** | 1.5 | ***** | .952 | 31 | ***** | .33 | 29 | | |
| RANGE | 7412 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .733 | 31 | ***** | .40 | 28 | | |
| REGNIER | 7534 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .943 | 31 | .26 | .40 | 30 | | |
| TURPIN 4 SSE | 9017 | 1 | 47.6 | 28 | ***** | 86. | 6 | 18. | 14 | 487.5 | ***** | .0 | ***** | .620 | 30 | ***** | .25 | 29 | | |

MARCH 1991 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

| NAME | ID | CD | DEV | | | | MIN | | HEAT DEG | | DEV FROM | | COOL DEG | | DEV FROM | | TOT NUM | | DEV FROM MAX | |
|-----------------|------|----|-----------|---------|-----------|----------|-----|------|----------|-------|----------|-----------|----------|-------|-----------|-------|---------|-----------|--------------|-----------|
| | | | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | DAY | TEMP | DAY | DAY | DEG | FROM NORM | DAY | DEG | FROM NORM | PPT | OBS | FROM NORM | MAX | 24-HR DAY |
| ALVA | 193 | 2 | 52.3 | 31 | ***** | 90. | 5 | 22. | 14 | 404.5 | ***** | 9.5 | ***** | .980 | 31 | ***** | .54 | 17 | | |
| VANCE AFB | 302 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.253 | 31 | ***** | .81 | 17 | | |
| BILLINGS | 755 | 2 | 50.3 | 31 | ***** | 91. | 6 | 20. | 7 | 457.5 | ***** | 3.0 | ***** | 1.510 | 31 | -.56 | .89 | 17 | | |
| BLACKWELL 2E | 818 | 2 | 52.0 | 31 | ***** | 88. | 5 | 21. | 7 | 414.5 | ***** | 13.0 | ***** | 1.202 | 31 | ***** | .75 | 17 | | |
| BRAMAN | 1075 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .782 | 31 | ***** | .76 | 17 | | |
| CHEROKEE | 1724 | 2 | 53.1 | 31 | 4.9 | 89. | 5 | 20. | 14 | 380.5 | -152.5 | 12.0 | .0 | .970 | 31 | -.96 | .35 | 28 | | |
| ENID | 2912 | 2 | 51.4 | 31 | 2.3 | 87. | 5 | 24. | 14 | 431.5 | -75.5 | 8.5 | -5.5 | 1.280 | 31 | -.61 | .88 | 17 | | |
| FT SUPPLY DAM | 3304 | 2 | 49.2 | 31 | 1.7 | 88. | 6 | 21. | 3 | 490.0 | -68.0 | 1.0 | -14.0 | .930 | 31 | -.33 | .49 | 29 | | |
| FREEDOM | 3358 | 2 | 51.9 | 31 | ***** | 88. | 5 | 18. | 8 | 416.0 | ***** | 9.0 | ***** | 1.321 | 31 | ***** | .66 | 17 | | |
| GREAT SALT PLNS | 3740 | 2 | 53.3 | 31 | ***** | 86. | 6 | 22. | 14 | 376.0 | ***** | 14.0 | ***** | 1.220 | 24 | ***** | .75 | 17 | | |
| HARDY | 3909 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.762 | 31 | ***** | .92 | 26 | | |
| HELENA 1 SSE | 4019 | 2 | 48.6 | 31 | ***** | 88. | 6 | 21. | 14 | 507.5 | ***** | .0 | ***** | .454 | 31 | -1.47 | .27 | 3 | | |
| JEFFERSON | 4573 | 2 | 52.9 | 31 | 4.8 | 90. | 5 | 19. | 7 | 394.0 | -139.0 | 19.0 | 10.0 | .702 | 31 | -1.23 | .66 | 16 | | |
| LAMONT | 5013 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.163 | 31 | ***** | .80 | 17 | | |
| MEDFORD | 5768 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .943 | 31 | ***** | .73 | 16 | | |
| MORRISON | 6065 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .840 | 31 | ***** | .48 | 17 | | |
| MUTUAL | 6139 | 2 | 50.0 | 31 | 3.2 | 90. | 6 | 22. | 14 | 468.0 | -106.0 | 2.0 | -7.0 | 1.250 | 31 | -.33 | .72 | 17 | | |
| NEWKIRK | 6278 | 2 | 53.3 | 31 | 5.8 | 87. | 5 | 23. | 7 | 380.0 | -174.0 | 18.0 | 7.0 | .432 | 31 | -1.55 | .25 | 17 | | |
| ORIENTA | 6751 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.070 | 31 | ***** | .60 | 17 | | |
| PERRY | 7012 | 2 | 55.9 | 31 | 6.0 | 90. | 5 | 26. | 3 | 313.0 | -170.0 | 32.0 | 17.0 | 1.290 | 31 | -1.07 | .65 | 17 | | |
| PONCA CITY FAA | 7201 | 2 | 53.3 | 31 | 6.8 | 88. | 5 | 24. | 7 | 385.5 | -194.5 | 24.0 | 17.0 | 1.604 | 31 | -.50 | .73 | 17 | | |
| RED ROCK 1 NNE | 7505 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.011 | 31 | -1.24 | .65 | 17 | | |
| RENFROW | 7556 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.600 | 31 | -.31 | .90 | 27 | | |
| WAYNOKA | 9404 | 2 | 52.0 | 31 | 3.2 | 88. | 5 | 20. | 8 | 408.5 | -109.5 | 7.0 | -9.0 | 1.000 | 31 | -.63 | .59 | 17 | | |
| WOODWARD | 9760 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.114 | 31 | ***** | .67 | 17 | | |

MARCH 1991 SUMMARY FOR NORTHEAST DIVISION (CD3)

| NAME | ID | CD | DEV | | | | | HEAT | | DEV | | COOL | | DEV | | TOT | NUM | FROM | MAX | 24-HR | DAY |
|-----------------|------|----|-------|-----|-------|------|-----|------|------|-------|--------|-------|-------|-------|------|-------|------|------|-----|-------|-----|
| | | | MEAN | NUM | FROM | MAX | MIN | DEG | FROM | DEG | FROM | DEG | FROM | DEG | FROM | | | | | | |
| BARNSDALL | 535 | 3 | 53.7 | 31 | ***** | 87. | 5 | 24. | 10 | 367.0 | ***** | 16.5 | ***** | .344 | 31 | -2.77 | .16 | 27 | | | |
| BARTLESVILLE ZW | 548 | 3 | 54.1 | 31 | 5.3 | 88. | 5 | 21. | 7 | 361.5 | -154.5 | 22.5 | 8.5 | .795 | 31 | -1.93 | .68 | 17 | | | |
| BIXBY | 782 | 3 | 51.7 | 31 | 2.9 | 87. | 6 | 27. | 9 | 427.0 | -87.0 | 15.5 | 3.5 | 1.961 | 31 | -.73 | .61 | 22 | | | |
| BURBANK | 1256 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .852 | 31 | ***** | .52 | 16 | | | |
| CHELSEA 4 S | 1717 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.200 | 31 | ***** | .42 | 17 | | | |
| CLAREMORE | 1828 | 3 | 51.3 | 31 | 3.2 | 86. | 6 | 26. | 10 | 436.5 | -97.5 | 13.0 | 3.0 | 2.294 | 31 | -.87 | .87 | 22 | | | |
| CLEVELAND 5 WSW | 1902 | 3 | 56.7 | 26 | ***** | 89. | 5 | 27. | 8 | 250.0 | ***** | 34.5 | ***** | 1.290 | 27 | ***** | .60 | 29 | | | |
| FORAKER | 3250 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .900 | 31 | -1.49 | .75 | 16 | | | |
| HOMINY | 4289 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.133 | 31 | -1.69 | .44 | 17 | | | |
| HULAH DAM | 4393 | 3 | 53.9 | 21 | ***** | 84. | 27 | 20. | 8 | 254.0 | ***** | 20.0 | ***** | .621 | 31 | -2.02 | .52 | 17 | | | |
| JAY TOWER | 4567 | 3 | 51.2 | 30 | ***** | 80. | 26 | 26. | 4 | 417.5 | ***** | 4.0 | ***** | 1.460 | 30 | ***** | .50 | 1 | | | |
| KANSAS 1 ESE | 4672 | 3 | 53.3 | 31 | ***** | 79. | 5 | 26. | 4 | 374.0 | ***** | 10.0 | ***** | 2.221 | 31 | ***** | 1.00 | 1 | | | |
| KEYSTONE DAM | 4812 | 3 | 53.4 | 24 | ***** | 86. | 6 | 26. | 4 | 291.5 | ***** | 14.0 | ***** | 1.680 | 22 | ***** | .74 | 27 | | | |
| LENAPAH | 5118 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.020 | 31 | ***** | .60 | 17 | | | |
| MANNFORD 6 NW | 5522 | 3 | 56.0 | 31 | ***** | 90. | 5 | 27. | 8 | 316.5 | ***** | 38.5 | ***** | 1.320 | 31 | -1.25 | .44 | 29 | | | |
| MARAMEC | 5540 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.091 | 31 | -1.36 | .54 | 29 | | | |
| MIAMI | 5855 | 3 | 51.0 | 30 | 2.8 | 80. | 25 | 26. | 9 | 430.0 | -101.0 | 11.5 | 1.5 | 1.240 | 30 | ***** | .48 | 17 | | | |
| NOWATA | 6485 | 3 | 53.1 | 30 | 4.7 | 84. | 5 | 27. | 7 | 372.0 | -152.0 | 16.0 | 6.0 | 1.030 | 30 | ***** | .53 | 17 | | | |
| ONETA 1 WNW | 6713 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.030 | 31 | ***** | .45 | 17 | | | |
| PAWUSKA | 6935 | 3 | 53.6 | 31 | 5.0 | 87. | 5 | 23. | 8 | 371.0 | -150.0 | 18.0 | 6.0 | .732 | 31 | -1.95 | .55 | 17 | | | |
| PAWNEE | 6940 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.171 | 31 | -1.31 | .62 | 29 | | | |
| PRYOR 6 N | 7309 | 3 | 50.7 | 31 | 2.2 | 82. | 6 | 24. | 4 | 452.0 | -75.0 | 9.0 | -6.0 | .932 | 31 | -2.18 | .44 | 17 | | | |
| RALSTON | 7390 | 3 | 55.3 | 31 | ***** | 90. | 5 | 23. | 10 | 328.5 | ***** | 27.5 | ***** | .951 | 31 | -1.57 | .57 | 17 | | | |
| RAMONA 4 N | 7394 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .770 | 31 | ***** | .48 | 17 | | | |
| SKIATOOK | 8258 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.110 | 31 | -1.72 | .54 | 27 | | | |
| SPAVINAW | 8380 | 3 | 55.2 | 31 | ***** | 80. | 26 | 27. | 4 | 322.5 | ***** | 17.5 | ***** | 1.243 | 31 | -1.89 | .62 | 27 | | | |
| TULSA WSO APT | 8992 | 3 | 56.4 | 31 | 7.1 | 88. | 5 | 30. | 3 | 300.0 | -200.0 | 34.0 | 20.0 | 1.024 | 31 | -2.12 | .38 | 17 | | | |
| UPPER SPAVINAW | 9101 | 3 | 56.6 | 31 | ***** | 85. | 26 | 30. | 8 | 298.0 | ***** | 37.0 | ***** | 1.093 | 31 | ***** | .41 | 17 | | | |
| VINITA 2 N | 9203 | 3 | 52.8 | 31 | 4.7 | 81. | 5 | 24. | 8 | 394.0 | -140.0 | 16.0 | 6.0 | 1.150 | 31 | -2.39 | .41 | 17 | | | |
| WAGONER | 9247 | 3 | 54.0 | 31 | 3.5 | 80. | 26 | 29. | 31 | 347.5 | -118.5 | 7.0 | -9.0 | .932 | 31 | -2.46 | .53 | 17 | | | |
| WANN | 9298 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .801 | 31 | ***** | .77 | 17 | | | |
| WYNONA | 9792 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .665 | 31 | ***** | .50 | 17 | | | |

MARCH 1991 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

| NAME | ID | CD | DEV | | | | | HEAT | | DEV | | COOL | | DEV | | TOT | NUM | FROM | MAX | 24-HR | DAY |
|----------------|------|----|-------|-----|-------|------|-----|------|------|-------|--------|-------|-------|-------|------|-------|------|------|-----|-------|-----|
| | | | MEAN | NUM | FROM | MAX | MIN | DEG | FROM | DEG | FROM | DEG | FROM | DEG | FROM | | | | | | |
| CANTON DAM | 1445 | 4 | 50.4 | 31 | 1.3 | 90. | 6 | 22. | 4 | 460.5 | -47.5 | 6.5 | -8.5 | 1.541 | 28 | ***** | .75 | 17 | | | |
| CHEYENNE | 1738 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.110 | 31 | ***** | .64 | 29 | | | |
| CLINTON | 1909 | 4 | 55.0 | 31 | 5.5 | 92. | 5 | 24. | 3 | 320.0 | -173.0 | 10.5 | -2.5 | 1.761 | 31 | .06 | .75 | 17 | | | |
| COLONY | 2039 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.530 | 31 | ***** | .78 | 17 | | | |
| CORDELL | 2125 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.522 | 31 | -.11 | .73 | 29 | | | |
| ELK CITY 1 E | 2849 | 4 | 54.3 | 29 | ***** | 90. | 5 | 25. | 14 | 313.5 | ***** | 4.5 | ***** | 1.673 | 30 | ***** | .83 | 29 | | | |
| ERICK 4 E | 2944 | 4 | 52.9 | 31 | 3.4 | 89. | 5 | 21. | 8 | 376.5 | -114.5 | 1.5 | -9.5 | 1.720 | 31 | .31 | 1.04 | 29 | | | |
| GEARY | 3497 | 4 | 52.5 | 30 | 3.2 | 90. | 5 | 24. | 14 | 385.5 | -113.5 | 9.5 | -2.5 | 1.790 | 30 | ***** | .89 | 17 | | | |
| HAMMON 1 NNE | 3871 | 4 | 49.9 | 31 | 1.0 | 90. | 6 | 22. | 9 | 469.5 | -45.5 | 2.5 | -13.5 | .661 | 31 | -.90 | .55 | 17 | | | |
| LEEDEY | 5090 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.920 | 31 | .58 | 1.54 | 24 | | | |
| MORAVIA 2 NNE | 6035 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.570 | 31 | .04 | .84 | 29 | | | |
| OKEENE | 6629 | 4 | 53.3 | 31 | 3.4 | 91. | 5 | 23. | 14 | 376.0 | -106.0 | 13.5 | -.5 | 2.070 | 31 | .25 | .65 | 3 | | | |
| RETROP | 7565 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.410 | 31 | ***** | .55 | 17 | | | |
| REYDON | 7579 | 4 | 53.5 | 31 | ***** | 89. | 5 | 24. | 14 | 362.5 | ***** | 6.0 | ***** | 1.481 | 31 | .08 | 1.18 | 29 | | | |
| SAYRE | 7952 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.742 | 31 | .46 | 1.19 | 29 | | | |
| SWEETWATER 2 E | 8652 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.571 | 31 | ***** | 1.25 | 28 | | | |
| TALOGA | 8708 | 4 | 52.0 | 31 | 3.7 | 91. | 5 | 20. | 8 | 411.0 | -117.0 | 8.5 | -1.5 | 1.300 | 31 | -.32 | .75 | 17 | | | |
| THOMAS | 8815 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.690 | 31 | ***** | .75 | 17 | | | |
| VICI | 9172 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.150 | 31 | ***** | 1.12 | 17 | | | |
| WATONGA | 9364 | 4 | 53.8 | 31 | ***** | 90. | 5 | 24. | 14 | 363.0 | ***** | 14.5 | ***** | 2.162 | 31 | .38 | .80 | 17 | | | |
| WEATHERFORD | 9422 | 4 | 52.5 | 31 | 2.6 | 93. | 6 | 25. | 14 | 397.0 | -85.0 | 11.0 | -3.0 | 1.312 | 31 | -.28 | .71 | 17 | | | |

MARCH 1991 SUMMARY FOR CENTRAL DIVISION (CD5)

| NAME | ID | CD | DEV | | | | | HEAT | | DEV | COOL | | DEV | TOT | NUM | FROM | MAX | 24-HR | DAY |
|---------------------|------|-------|-------|-------|-------|------|------|------|-------|--------|--------|-------|-------|-------|------|-------|------|-------|-----|
| | | | MEAN | NUM | FROM | MAX | MIN | DEG | FROM | DEG | FROM | PPT | OBS | | | | | | |
| AMBER | 200 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.510 | 31 | ***** | .87 | 17 | |
| ARCADIA | 288 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.110 | 31 | ***** | .54 | 17 | |
| TINKER AFB | 325 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.536 | 31 | ***** | .80 | 17 | |
| BLANCHARD 2 SSW | 830 | 5 | 55.5 | 31 | ***** | 91. | 5 | 27. | 14 | 312.0 | ***** | 18.0 | ***** | 1.433 | 31 | ***** | .81 | 17 | |
| BRISTOW | 1144 | 5 | 55.2 | 31 | 4.7 | 89. | 5 | 28. | 8 | 326.5 | -139.5 | 22.5 | 5.5 | 1.561 | 31 | -.99 | .65 | 3 | |
| CHANDLER | 1684 | 5 | 55.5 | 30 | 4.8 | 90. | 5 | 28. | 14 | 313.5 | -147.5 | 27.0 | 10.0 | 1.000 | 30 | ***** | .45 | 17 | |
| CHICKASHA EX ST1750 | 5 | 55.0 | 31 | 3.4 | 93. | 5 | 24. | 8 | 330.5 | -104.5 | 19.5 | .5 | 1.511 | 31 | -.43 | .94 | 17 | | |
| COX CITY 1 E | 2196 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.632 | 31 | ***** | .80 | 17 | |
| CRESCENT | 2242 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.280 | 31 | ***** | .57 | 17 | |
| CUSHING | 2318 | 5 | 52.4 | 29 | ***** | 89. | 6 | 28. | 14 | 376.0 | ***** | 10.5 | ***** | .400 | 29 | ***** | .22 | 29 | |
| EL RENO 1 N | 2818 | 5 | 54.3 | 31 | 4.8 | 91. | 5 | 24. | 14 | 350.0 | -143.0 | 17.0 | 4.0 | 1.870 | 31 | .02 | .99 | 16 | |
| GUTHRIE | 3821 | 5 | 56.2 | 31 | 6.4 | 90. | 5 | 26. | 14 | 300.5 | -183.5 | 28.5 | 15.5 | 1.772 | 31 | -.24 | .85 | 17 | |
| HENNESSEY 2 SE | 4055 | 5 | 52.2 | 31 | 3.3 | 90. | 5 | 22. | 14 | 398.0 | -114.0 | 2.5 | -10.5 | 1.260 | 31 | -.60 | .72 | 17 | |
| INGALLS | 4489 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .762 | 31 | ***** | .36 | 17 | |
| KINGFISHER 2 SE4861 | 5 | 54.2 | 31 | 4.6 | 91. | 5 | 23. | 14 | 354.0 | -136.0 | 18.0 | 6.0 | 1.330 | 31 | -.43 | .67 | 17 | | |
| KONAWA | 4915 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.390 | 31 | -.50 | 1.48 | 22 | |
| MARSHALL | 5589 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.100 | 31 | -.89 | .90 | 19 | |
| MEEKER 4 W | 5779 | 5 | 54.8 | 31 | 4.7 | 90. | 5 | 26. | 14 | 335.5 | -139.5 | 19.5 | 6.5 | 2.070 | 31 | -.36 | .53 | 21 | |
| MULHALL | 6110 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.101 | 31 | ***** | .59 | 17 | |
| NORMAN 3 S | 6386 | 5 | 55.6 | 31 | ***** | 92. | 5 | 28. | 14 | 309.5 | ***** | 19.0 | ***** | 2.352 | 31 | .02 | .88 | 17 | |
| OILTON 2 SE | 6616 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.020 | 31 | ***** | .32 | 16 | |
| OKEMAH | 6638 | 5 | 55.7 | 31 | 4.6 | 88. | 5 | 29. | 3 | 305.5 | -144.5 | 17.5 | -1.5 | 1.970 | 31 | -.73 | .62 | 27 | |
| OKLAHOMA CTY WS6661 | 5 | 55.3 | 31 | 6.2 | 91. | 5 | 28. | 14 | 317.0 | -189.0 | 17.0 | 4.0 | 1.593 | 31 | -.48 | .90 | 17 | | |
| PERKINS | 7003 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.080 | 31 | -1.33 | .33 | 17 | |
| PIEDMONT | 7068 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.790 | 31 | ***** | .73 | 17 | |
| PRAGUE | 7264 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.660 | 31 | -.85 | .50 | 17 | |
| PURCELL 5 SW | 7327 | 5 | 54.7 | 31 | 4.3 | 91. | 5 | 25. | 10 | 339.0 | -136.0 | 19.0 | -4.0 | 1.771 | 31 | -.60 | .96 | 17 | |
| SEMINOLE | 8042 | 5 | 56.1 | 31 | 3.7 | 90. | 5 | 28. | 14 | 300.0 | -111.0 | 24.5 | 3.5 | 1.420 | 31 | -1.16 | .45 | 17 | |
| SHAWNEE | 8110 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.780 | 31 | -.73 | .80 | 17 | |
| STELLA | 8479 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.180 | 31 | ***** | .91 | 22 | |
| STILLWATER 2 W | 8501 | 5 | 52.7 | 31 | 3.9 | 88. | 6 | 22. | 8 | 393.0 | -122.0 | 11.0 | -1.0 | .981 | 31 | -1.21 | .38 | 17 | |
| STROUD 1 N | 8563 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.622 | 31 | ***** | .65 | 3 | |
| TECUMSEH | 8751 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.151 | 31 | ***** | .38 | 22 | |
| TROUSDALE | 8960 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.520 | 30 | ***** | .56 | 22 | |
| UNION CITY 1 SE9086 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.362 | 31 | -.01 | 1.02 | 17 | | |
| WELTY 1 SSE | 9479 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.950 | 31 | ***** | .70 | 3 | |
| WEWOKA | 9575 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.400 | 31 | -1.32 | .62 | 21 | |

MARCH 1991 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

| NAME | ID CD | DEV | | | | | | | | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | DEV MAX | 24-HR DAY |
|----------------|--------|-----------|---------|-----------|----------|---------|----------|-----|-------|--------------|---------------|--------------|---------------|---------|---------|---------------|---------|-----------|
| | | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | MIN DAY | DAY TEMP | DAY | | | | | | | | | | |
| ASHLAND | 364 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.641 | 31 | ***** | 1.30 | 17 | |
| BEGGS | 631 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.960 | 31 | ***** | .84 | 3 | |
| BOYNTON | 1027 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.310 | 31 | ***** | .77 | 17 | |
| CALVIN | 1391 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.953 | 31 | -.43 | 1.42 | 22 | |
| CHECOTAH | 1711 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.021 | 31 | -1.32 | 1.04 | 17 | |
| CLAYTON 11 WNW | 1858 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.130 | 31 | ***** | 1.50 | 27 | |
| DEWAR 2 NE | 2485 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.861 | 31 | -1.26 | .71 | 22 | |
| DUSTIN | 2690 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.060 | 31 | ***** | .76 | 17 | |
| EUFULA | 2993 6 | 55.5 | 31 | ***** | 84. | 5 | 31. | 4 | 311.5 | ***** | 18.0 | ***** | 3.671 | 31 | -.30 | 2.10 | 22 | |
| HANNA | 3884 6 | 54.9 | 31 | ***** | 87. | 5 | 27. | 10 | 333.5 | ***** | 20.5 | ***** | 3.700 | 31 | .01 | 1.89 | 22 | |
| HARTSHORNE | 3946 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.812 | 31 | ***** | 1.70 | 22 | |
| HASKELL | 3956 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.540 | 31 | -1.63 | .64 | 17 | |
| HOLDENVILLE | 4235 6 | 54.6 | 31 | 2.9 | 90. | 5 | 29. | 14 | 339.5 | -90.5 | 17.0 | -1.0 | 2.600 | 31 | -.38 | .93 | 22 | |
| LAKE EUFAULA | 4975 6 | 54.3 | 31 | ***** | 86. | 6 | 30. | 15 | 351.0 | ***** | 18.5 | ***** | 3.540 | 31 | ***** | 1.55 | 22 | |
| LYONS 2 N | 5437 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.100 | 31 | .16 | 1.03 | 1 | |
| MARBLE CITY | 5546 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.083 | 31 | ***** | 1.30 | 22 | |
| MCALESTER FAA | 5664 6 | 55.7 | 31 | 4.4 | 89. | 5 | 28. | 4 | 313.0 | -128.0 | 25.0 | 8.0 | 2.380 | 31 | -1.47 | 1.01 | 17 | |
| MCCURTAIN 1 SE | 5693 6 | 56.9 | 31 | ***** | 83. | 21 | 27. | 15 | 288.0 | ***** | 38.0 | ***** | 3.030 | 31 | -.88 | .75 | 27 | |
| MUSKOGEE | 6130 6 | 55.1 | 31 | 4.0 | 81. | 5 | 30. | 9 | 323.5 | -124.5 | 18.0 | 1.0 | 2.080 | 31 | -1.16 | .87 | 17 | |
| OKMULGEE W W | 6670 6 | 51.4 | 31 | .1 | 87. | 6 | 27. | 11 | 430.5 | -17.5 | 10.0 | -13.0 | 2.172 | 31 | -.86 | .66 | 3 | |
| OKTAHA 2 NE | 6678 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.091 | 31 | ***** | .98 | 17 | |
| QUINTON | 7372 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.850 | 31 | -.84 | .98 | 22 | |
| SALLISAW 2 NE | 7862 6 | 54.2 | 31 | 2.9 | 85. | 5 | 25. | 8 | 348.5 | -93.5 | 12.5 | -5.5 | 4.032 | 31 | .23 | 1.30 | 22 | |
| SCIPIO | 7979 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.550 | 31 | ***** | 1.88 | 22 | |
| SCRAPER | 7993 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.910 | 31 | ***** | .87 | 17 | |
| SHORT | 8170 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.070 | 31 | ***** | 1.23 | 17 | |
| STILWELL 1 NE | 8506 6 | 53.8 | 31 | ***** | 80. | 5 | 25. | 30 | 359.5 | ***** | 11.5 | ***** | 3.433 | 31 | -.27 | 1.20 | 22 | |
| TAHLEQUAH | 8677 6 | 53.8 | 30 | 3.8 | 83. | 5 | 25. | 8 | 348.0 | -132.0 | 13.0 | -2.0 | 2.871 | 31 | -.77 | 1.00 | 17 | |
| WEBBERS FALLS | 9445 6 | 52.4 | 31 | 3.2 | 82. | 6 | 26. | 15 | 399.0 | -102.0 | 9.5 | -1.5 | 3.540 | 31 | -.05 | 1.60 | 22 | |
| WESTVILLE | 9523 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.340 | 31 | ***** | 1.23 | 22 | |
| WETUMKA 3 NE | 9571 6 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.653 | 31 | -.47 | .80 | 22 | |

MARCH 1991 SUMMARY FOR SOUTHWEST DIVISION (CD7)

| NAME | ID CD | DEV | | | | | | | | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | DEV MAX | 24-HR DAY |
|-----------------|--------|-----------|---------|-----------|----------|---------|----------|-----|-------|--------------|---------------|--------------|---------------|---------|---------|---------------|---------|-----------|
| | | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | MIN DAY | DAY TEMP | DAY | | | | | | | | | | |
| ALTUS IRR STA | 179 7 | 56.0 | 31 | 3.5 | 93. | 5 | 27. | 8 | 291.0 | -116.0 | 10.5 | -8.5 | 1.590 | 31 | .31 | 1.06 | 29 | |
| ALTUS DAM | 184 7 | 54.4 | 31 | ***** | 91. | 6 | 24. | 9 | 348.0 | ***** | 20.5 | ***** | 1.620 | 31 | .32 | .85 | 29 | |
| APACHE | 260 7 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.340 | 31 | ***** | 2.26 | 29 | |
| ALTUS AFB | 447 7 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.796 | 31 | ***** | 1.05 | 29 | |
| CARNEGIE 2 ENE | 1504 7 | 54.5 | 30 | 3.7 | 94. | 5 | 22. | 8 | 330.0 | -125.0 | 13.5 | -.5 | 1.720 | 30 | ***** | .94 | 29 | |
| CHATTANOOGA | 1706 7 | 55.2 | 29 | ***** | 93. | 5 | 26. | 10 | 294.0 | ***** | 9.5 | ***** | 1.431 | 30 | ***** | .91 | 16 | |
| DUNCAN 12 W | 2668 7 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.681 | 31 | ***** | 1.30 | 22 | |
| FREDERICK | 3353 7 | 54.0 | 31 | .2 | 91. | 5 | 28. | 14 | 346.0 | -31.0 | 4.5 | -24.5 | .560 | 31 | -1.14 | .56 | 16 | |
| GRANDFIELD 4 NW | 3709 7 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .940 | 31 | -.83 | .69 | 17 | |
| HOBART FAA APT | 4204 7 | 54.1 | 31 | 4.8 | 93. | 5 | 24. | 8 | 350.5 | -146.5 | 12.5 | 2.5 | 2.163 | 31 | .89 | .97 | 29 | |
| HOLLIS | 4249 7 | 55.5 | 29 | ***** | 90. | 5 | 26. | 31 | 284.5 | ***** | 9.5 | ***** | .370 | 29 | ***** | .22 | 17 | |
| LAWTON | 5063 7 | 53.9 | 31 | 1.9 | 92. | 5 | 29. | 15 | 346.0 | -78.0 | .5 | -20.5 | 1.230 | 31 | -.60 | .93 | 16 | |
| FORT SILL | 5068 7 | 55.0 | 31 | ***** | 93. | 5 | 30. | 14 | 321.5 | ***** | 11.5 | ***** | 1.814 | 31 | -.02 | .91 | 16 | |
| LOOKEBA 2 ENE | 5329 7 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.380 | 31 | ***** | 1.10 | 29 | |
| MANGUM RES STA | 5509 7 | 54.1 | 31 | 2.2 | 94. | 5 | 25. | 8 | 344.5 | -81.5 | 7.0 | -13.0 | .940 | 31 | -.24 | .47 | 29 | |
| RANDLETT 9 E | 7403 7 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .941 | 31 | ***** | .61 | 17 | |
| ROOSEVELT | 7727 7 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.153 | 31 | .83 | 1.30 | 29 | |
| SEDAN | 8016 7 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.530 | 31 | ***** | 1.75 | 29 | |
| VINSON 3 WNW | 9212 7 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.161 | 31 | -.12 | .52 | 29 | |
| WALTERS | 9278 7 | 56.7 | 31 | 3.6 | 92. | 5 | 27. | 8 | 276.5 | -116.5 | 18.5 | -5.5 | .961 | 31 | -1.17 | .67 | 16 | |
| WICHITA MT WLR | 9629 7 | 52.8 | 31 | 1.9 | 88. | 6 | 23. | 8 | 384.5 | -72.5 | 7.5 | -12.5 | 1.302 | 31 | -.59 | .85 | 18 | |
| WILLOW | 9668 7 | ***** | 0 | ***** | ***** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.712 | 31 | ***** | 1.20 | 29 | |

MARCH 1991 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

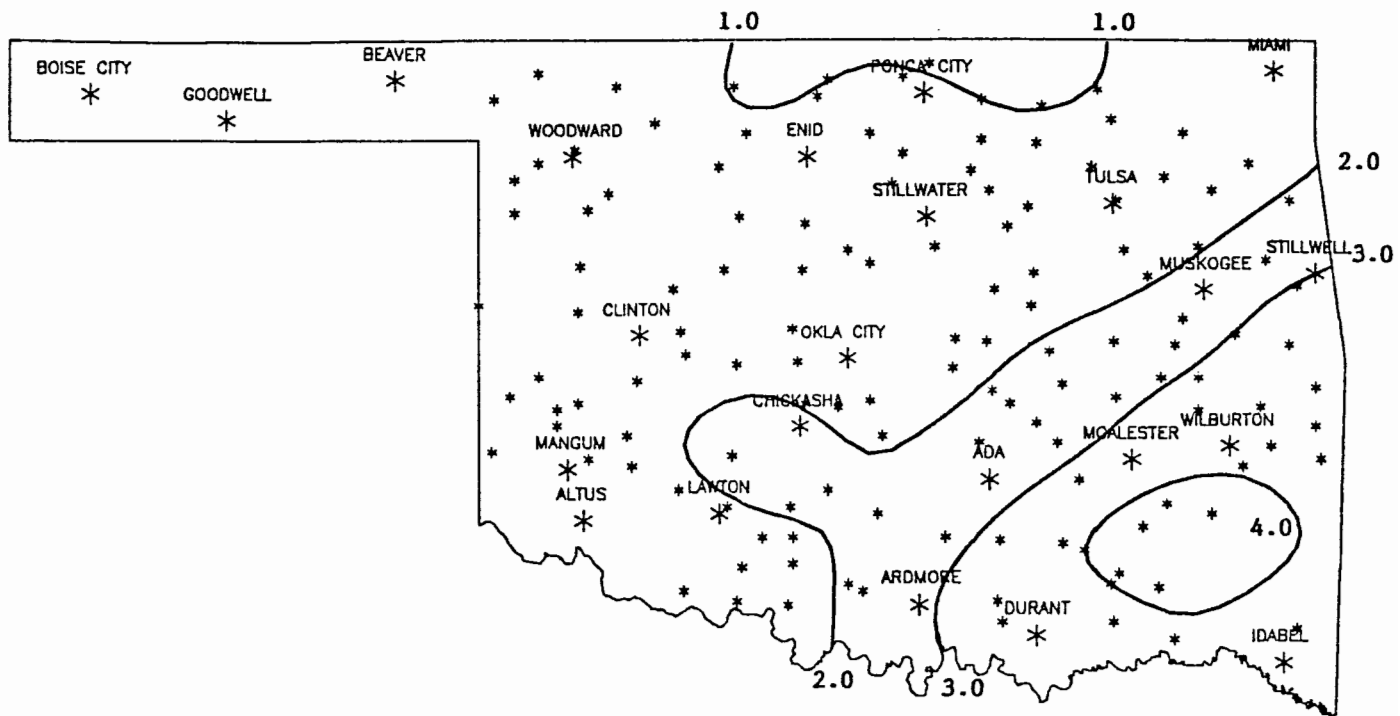
| NAME | ID CD | DEV | | | | HEAT | | DEV | | COOL | | DEV | | TOT PPT | NUM OBS | DEV | | 24-HR DAY |
|------------------|--------|-----------|---------|-----------|----------|---------|---------|-----------|---------|-----------|---------|-----------|-------|---------|---------|------|----|-----------|
| | | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | MIN DAY | DEG DAY | FROM NORM | DEG DAY | FROM NORM | DEG DAY | FROM NORM | MAX | | | | | |
| ADA | 17 8 | 54.6 | 31 | 2.2 | 90. | 6 | 28. | 14 | 329.5 | -83.5 | 7.0 | -16.0 | 2.090 | 31 | -.81 | .85 | 17 | |
| ALLEN | 147 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.800 | 31 | ***** | 1.10 | 17 | |
| ARDMORE | 292 8 | 57.4 | 31 | 2.3 | 93. | 5 | 31. | 3 | 260.0 | -80.0 | 25.5 | -7.5 | 3.841 | 31 | .89 | 1.10 | 22 | |
| ATOKA DAM | 394 8 | 55.3 | 30 | ***** | 90. | 6 | 30. | 15 | 308.5 | ***** | 18.5 | ***** | 5.130 | 31 | ***** | 2.78 | 22 | |
| BOKCHITO | 917 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.750 | 31 | ***** | 1.65 | 27 | |
| CANEY | 1437 8 | 56.5 | 31 | ***** | 86. | 5 | 31. | 4 | 275.0 | ***** | 12.5 | ***** | 3.840 | 31 | ***** | 2.90 | 22 | |
| CENTRAHOMA | 1648 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.000 | 31 | ***** | 1.50 | 16 | |
| CHICKASAW NRA | 1745 8 | 53.9 | 31 | ***** | 91. | 6 | 26. | 8 | 361.0 | ***** | 15.5 | ***** | 2.410 | 31 | ***** | 1.11 | 17 | |
| COMANCHE | 2054 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.070 | 31 | ***** | .60 | 16 | |
| DAISY 4 ENE | 2354 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.622 | 31 | 1.78 | 2.86 | 22 | |
| DUNCAN | 2660 8 | 54.5 | 31 | 1.5 | 91. | 6 | 29. | 14 | 334.5 | -61.5 | 9.0 | -15.0 | 1.650 | 31 | -.49 | .80 | 17 | |
| DURANT USDA | 2678 8 | 55.2 | 31 | ***** | 92. | 6 | 30. | 30 | 318.0 | ***** | 15.5 | ***** | 2.740 | 31 | -.53 | 1.16 | 22 | |
| ELMORE CITY | 2872 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.133 | 31 | ***** | .58 | 13 | |
| FARRIS 3 WNW | 3083 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.290 | 31 | ***** | .97 | 27 | |
| GRADY | 3688 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.630 | 31 | ***** | 1.52 | 22 | |
| HEALDTON | 4001 8 | 55.9 | 31 | ***** | 92. | 5 | 27. | 10 | 302.0 | ***** | 20.0 | ***** | 3.250 | 31 | .79 | 2.12 | 22 | |
| HENNEPIN | 4052 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .852 | 31 | ***** | .85 | 17 | |
| KEITCHUM RANCH | 4780 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.320 | 31 | ***** | .70 | 16 | |
| KINGSTON | 4865 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.823 | 31 | -.34 | 2.03 | 22 | |
| LEHIGH | 5108 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.603 | 31 | ***** | 2.15 | 22 | |
| LINDSAY 2 W | 5216 8 | 55.2 | 30 | ***** | 89. | 5 | 25. | 10 | 311.5 | ***** | 17.0 | ***** | 1.493 | 30 | ***** | .49 | 16 | |
| LOCO 6 SE | 5247 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.341 | 31 | ***** | .82 | 17 | |
| MADILL | 5468 8 | 57.5 | 31 | 3.9 | 92. | 5 | 29. | 9 | 264.0 | -114.0 | 32.5 | 7.5 | 3.090 | 31 | .08 | 1.92 | 21 | |
| MARIETTA | 5563 8 | 58.1 | 31 | 4.3 | 93. | 5 | 32. | 14 | 245.5 | -125.5 | 30.5 | 6.5 | 3.761 | 31 | 1.01 | 1.85 | 22 | |
| MARLOW 1 WSW | 5581 8 | 56.7 | 31 | ***** | 93. | 5 | 25. | 8 | 280.0 | ***** | 23.5 | ***** | 4.411 | 31 | 2.41 | 1.57 | 29 | |
| MCGEE CREEK DAMS | 5713 8 | 54.5 | 31 | ***** | 90. | 6 | 30. | 4 | 339.0 | ***** | 14.0 | ***** | 4.671 | 31 | ***** | 2.35 | 22 | |
| PAULS VALLEY | 6926 8 | 55.7 | 31 | 3.1 | 92. | 5 | 25. | 8 | 306.5 | -98.5 | 18.0 | -3.0 | 1.522 | 31 | -.78 | .82 | 22 | |
| PONTIOTOC | 7214 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.650 | 31 | .36 | 2.01 | 21 | |
| TISHOMINGO NWLR | 8884 8 | 54.8 | 29 | ***** | 94. | 5 | 24. | 10 | 319.0 | ***** | 22.0 | ***** | 4.010 | 31 | .84 | 2.60 | 22 | |
| TUSSY | 9032 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .920 | 31 | ***** | .51 | 16 | |
| WAURIKA | 9395 8 | 58.0 | 31 | 3.8 | 94. | 5 | 28. | 8 | 246.0 | -118.0 | 29.5 | -.5 | .820 | 31 | -1.12 | .73 | 16 | |
| WAURIKA DAM | 9399 8 | 55.1 | 29 | ***** | 94. | 6 | 31. | 14 | 299.0 | ***** | 11.5 | ***** | 1.312 | 29 | ***** | .63 | 17 | |

MARCH 1991 SUMMARY FOR SOUTHEAST DIVISION (CD9)

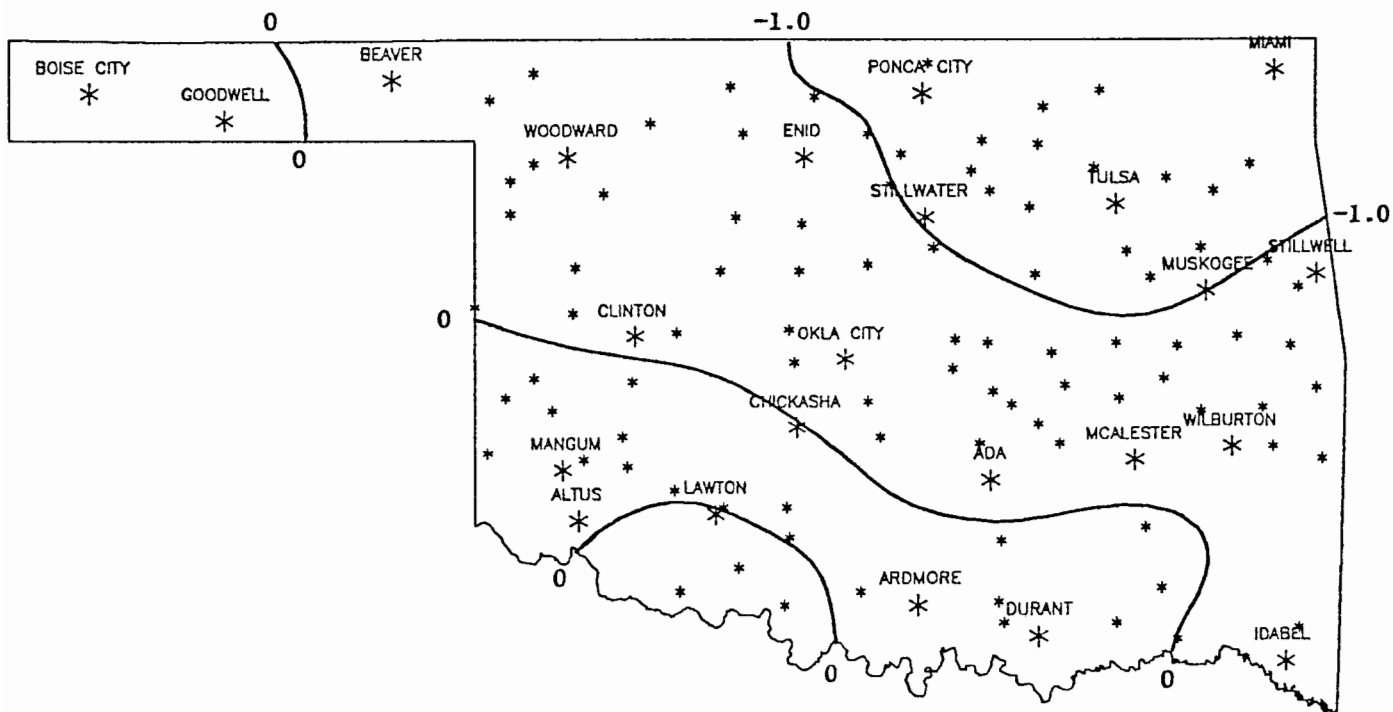
| NAME | ID CD | DEV | | | | HEAT | | DEV | | COOL | | DEV | | TOT PPT | NUM OBS | DEV | | 24-HR DAY |
|-----------------|--------|-----------|---------|-----------|----------|---------|---------|-----------|---------|-----------|---------|-----------|-------|---------|---------|------|----|-----------|
| | | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | MIN DAY | DEG DAY | FROM NORM | DEG DAY | FROM NORM | DEG DAY | FROM NORM | MAX | | | | | |
| ANTLERS | 256 9 | 56.3 | 31 | 3.5 | 90. | 5 | 27. | 10 | 296.0 | -102.0 | 25.5 | 5.5 | 4.560 | 31 | .99 | 1.40 | 21 | |
| BATTIEST 1 SSW | 567 9 | 53.8 | 31 | ***** | 82. | 5 | 23. | 10 | 355.0 | ***** | 9.0 | ***** | 6.192 | 31 | ***** | 1.78 | 22 | |
| BEAR MT TWR | 584 9 | 58.3 | 29 | ***** | 84. | 5 | 30. | 31 | 217.0 | ***** | 22.0 | ***** | 3.901 | 29 | ***** | 1.42 | 1 | |
| BENGAL | 670 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.450 | 31 | ***** | 1.14 | 27 | |
| BOSWELL 4 NNW | 980 9 | 59.3 | 31 | ***** | 91. | 5 | 32. | 15 | 223.0 | ***** | 47.5 | ***** | 2.874 | 31 | -.45 | .91 | 22 | |
| BROKEN BOW 1 N | 1162 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.480 | 31 | -1.99 | .90 | 1 | |
| BROKEN BOW DAM | 1168 9 | 54.7 | 31 | ***** | 86. | 6 | 28. | 10 | 331.0 | ***** | 11.0 | ***** | 2.770 | 31 | ***** | 1.08 | 1 | |
| CARNASAW TWR | 1499 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.490 | 31 | -2.16 | .90 | 1 | |
| CARTER TWR | 1544 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.740 | 31 | -1.83 | 1.28 | 1 | |
| FANSHAWE | 3065 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.490 | 31 | -.93 | .97 | 27 | |
| FLAGPOLE TWR | 3169 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.140 | 31 | ***** | 1.75 | 21 | |
| HEAVENER 1 SE | 4008 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.660 | 31 | -1.49 | .72 | 1 | |
| HEE MT TWR | 4017 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.620 | 31 | ***** | 1.78 | 22 | |
| HUGO | 4384 9 | 57.8 | 31 | 3.2 | 86. | 5 | 32. | 15 | 252.5 | -94.5 | 30.5 | 6.5 | 4.403 | 31 | .60 | 1.22 | 1 | |
| POTEAU W W | 7254 9 | 53.5 | 31 | ***** | 82. | 25 | 25. | 15 | 364.5 | ***** | 8.5 | ***** | 3.530 | 31 | ***** | 1.70 | 21 | |
| SMITHVILLE 1 W | 8285 9 | 54.1 | 31 | ***** | 83. | 5 | 21. | 10 | 352.5 | ***** | 13.5 | ***** | 6.233 | 31 | ***** | 1.75 | 27 | |
| SPIRO | 8416 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.680 | 31 | -.46 | .81 | 22 | |
| TUSKAHOMA | 9023 9 | 56.2 | 31 | ***** | 86. | 5 | 22. | 10 | 302.5 | ***** | 30.0 | ***** | 7.151 | 31 | ***** | 3.35 | 22 | |
| VALLIANT 3 W | 9118 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.782 | 31 | -1.43 | 1.50 | 1 | |
| WILBURTON 9 ENE | 9634 9 | 55.0 | 31 | 3.2 | 84. | 5 | 24. | 10 | 332.0 | -95.0 | 22.0 | 4.0 | 3.701 | 31 | -.38 | 1.45 | 26 | |

MARCH 1991 CLIMATE DIVISION SUMMARY

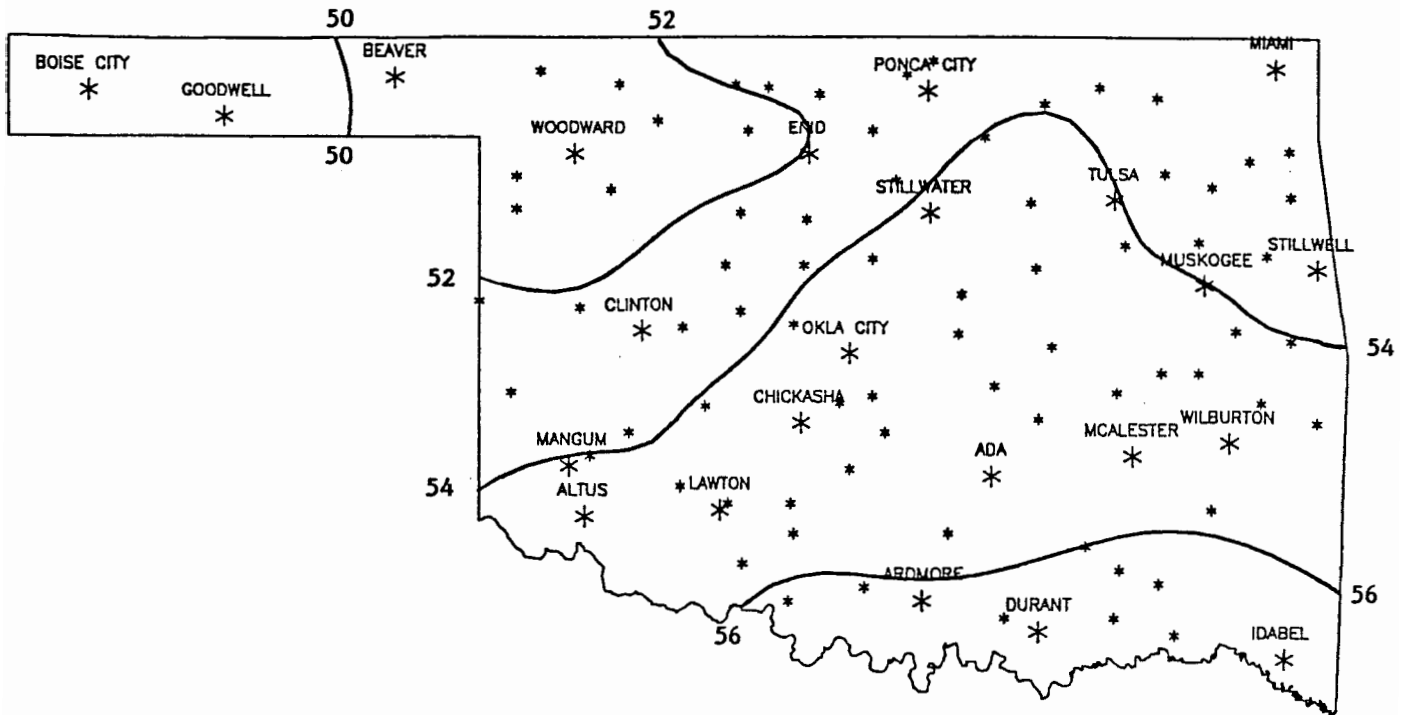
| CLIMATE DIV | MEAN TEMP | NUM STA | DEV | | | HEAT | | | DEV | | | DEV | | |
|----------------|--------------|------------|--------------|-------------|-----------------|---------------|--------------|----------------|--------------|--------------|------------|------------|--------------|------------------|
| | | | FROM NORM | MAX TEMP | MIN DAY TEMP | DEGREE DAY | FROM NORM | DEGREE DAYS | COOL DAYS | FROM NORM | TOT PPT | NUM STA | FROM NORM | MAX 24-HR DAY |
| 1 | 48.7 | 9 | 3.4 | 91.0 | 5 15.0 | 8 508.8 | -106.5 | 3.9 | -1.8 | 1.06 | 14 | -.07 | .76 | 3 |
| 2 | 52.0 | 15 | 3.9 | 91.0 | 6 18.0 | 8 415.1 | -122.6 | 11.5 | -.5 | 1.10 | 24 | -.80 | .92 | 26 |
| 3 | 53.5 | 17 | 5.0 | 90.0 | 5 20.0 | 8 371.5 | -150.7 | 18.4 | 6.4 | 1.12 | 27 | -1.78 | 1.00 | 1 |
| 4 | 52.6 | 10 | 3.3 | 93.0 | 6 20.0 | 8 392.1 | -107.6 | 8.4 | -4.7 | 1.59 | 18 | .02 | 1.54 | 24 |
| 5 | 54.9 | 15 | 4.8 | 93.0 | 5 22.0 | 8 332.3 | -146.6 | 18.7 | 2.8 | 1.60 | 34 | -.71 | 1.48 | 22 |
| 6 | 54.4 | 12 | 3.6 | 90.0 | 5 25.0 | 8 345.5 | -110.3 | 17.6 | .6 | 2.97 | 31 | -.54 | 2.10 | 22 |
| 7 | 54.5 | 10 | 2.7 | 94.0 | 5 22.0 | 8 333.9 | -92.2 | 10.6 | -9.0 | 1.67 | 19 | .13 | 2.26 | 29 |
| 8 | 55.9 | 15 | 2.4 | 94.0 | 6 24.0 | 10 298.7 | -82.3 | 19.2 | -6.5 | 2.83 | 30 | .07 | 2.90 | 22 |
| 9 | 55.6 | 9 | 2.6 | 91.0 | 5 21.0 | 10 312.1 | -78.6 | 21.9 | 1.3 | 4.00 | 19 | -.15 | 3.35 | 22 |



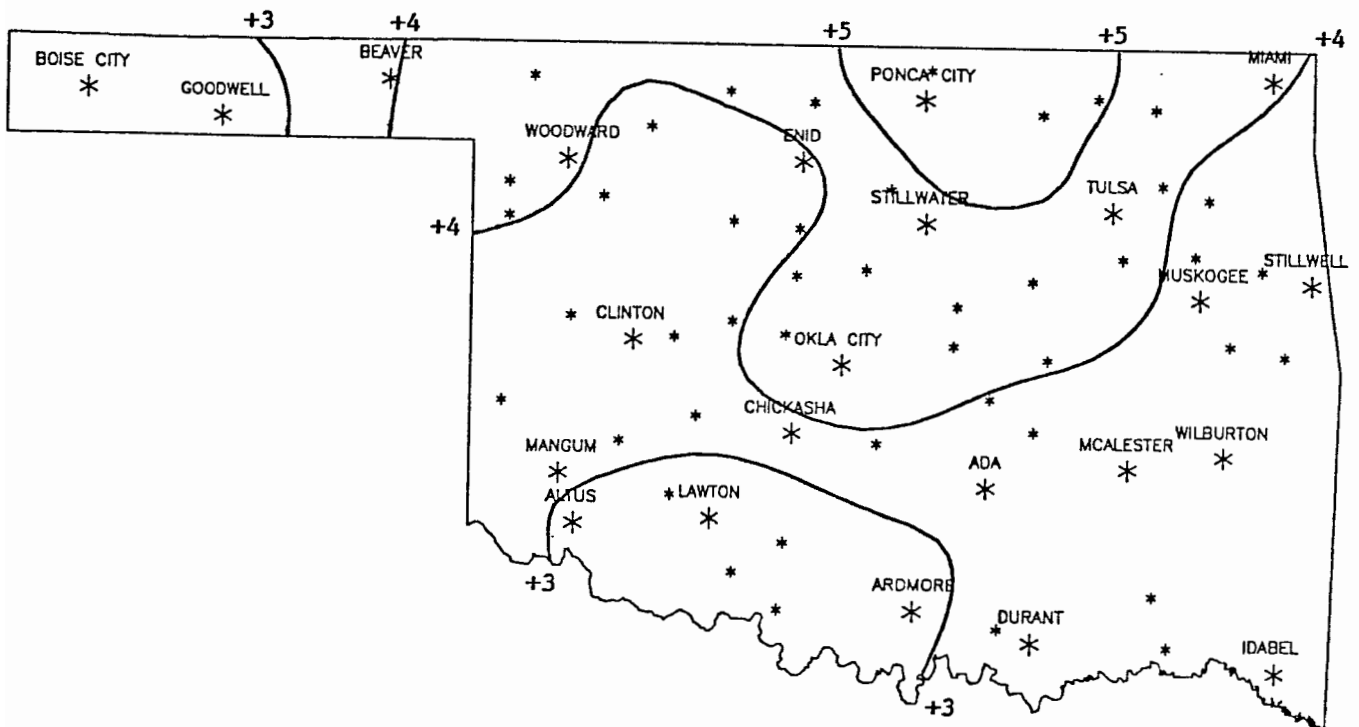
MARCH 1991 TOTAL PRECIPITATION
(Inches)



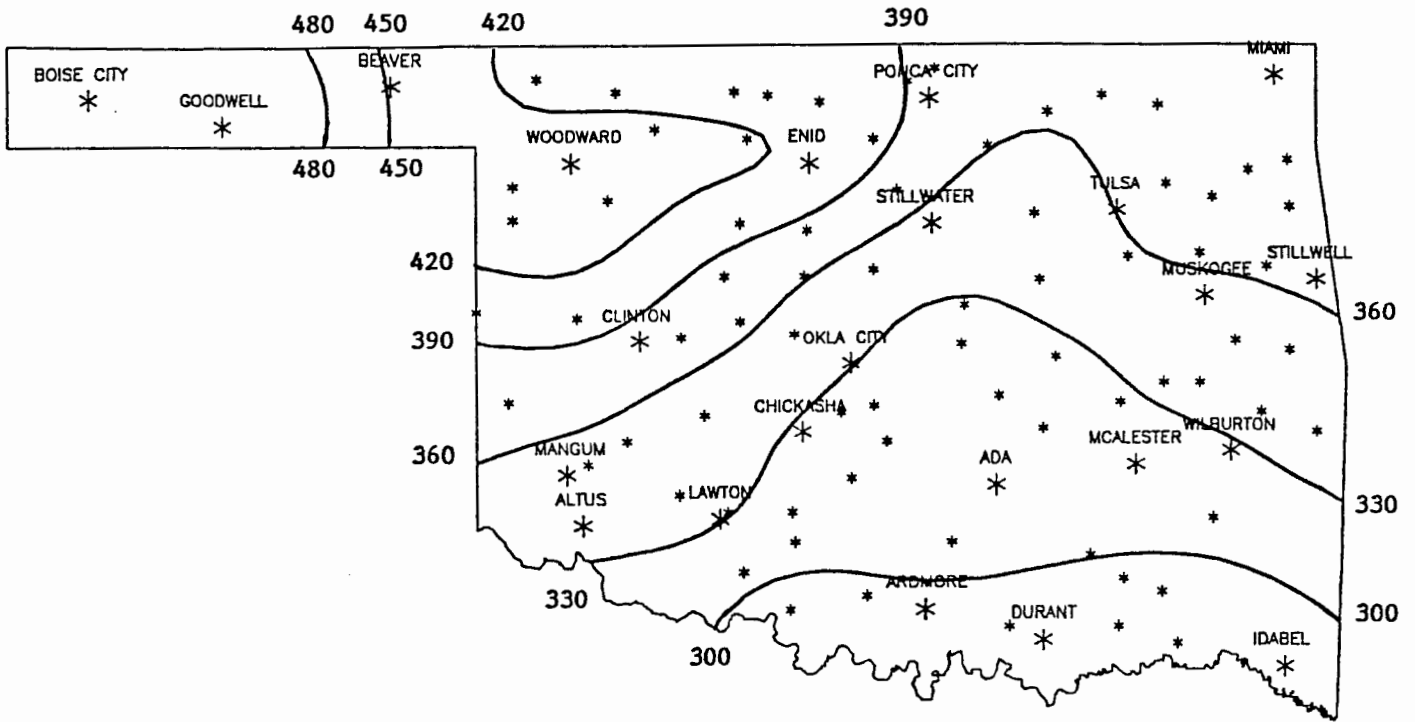
MARCH 1991 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



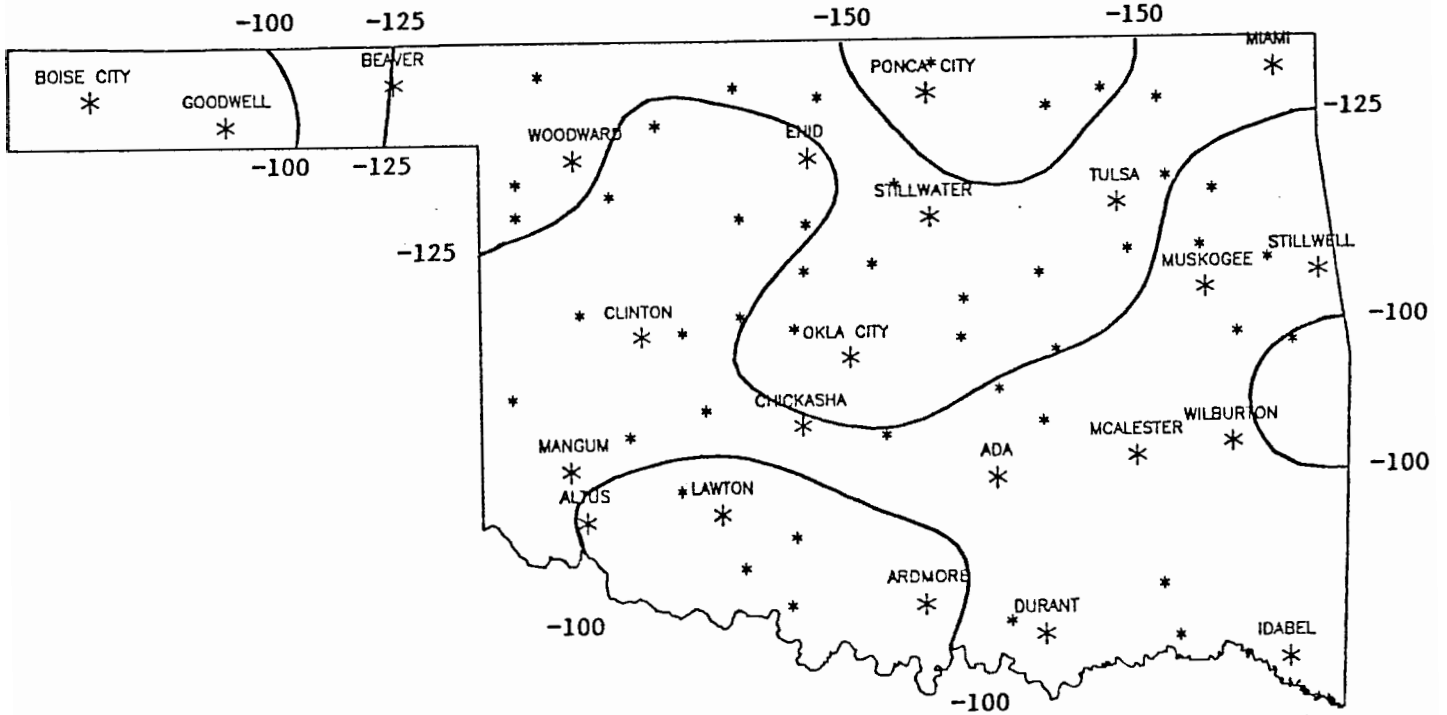
MARCH 1991 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



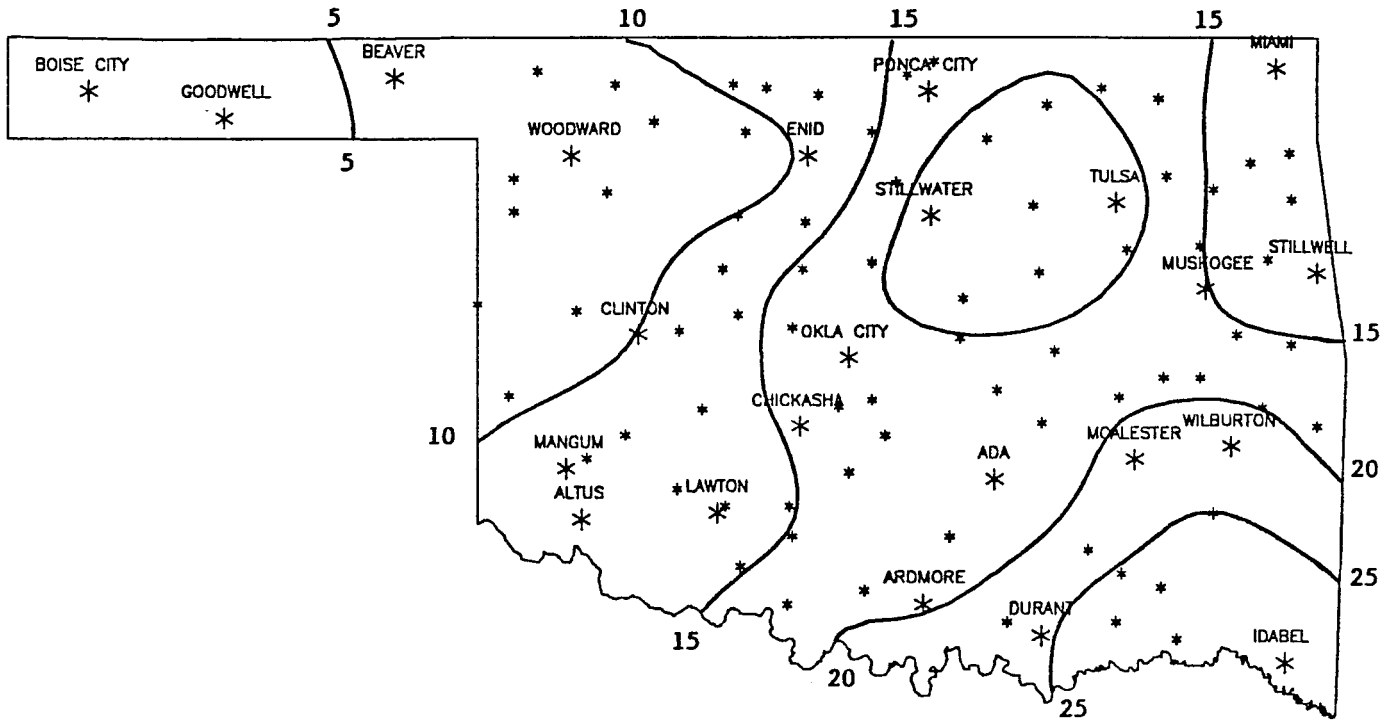
MARCH 1991 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)



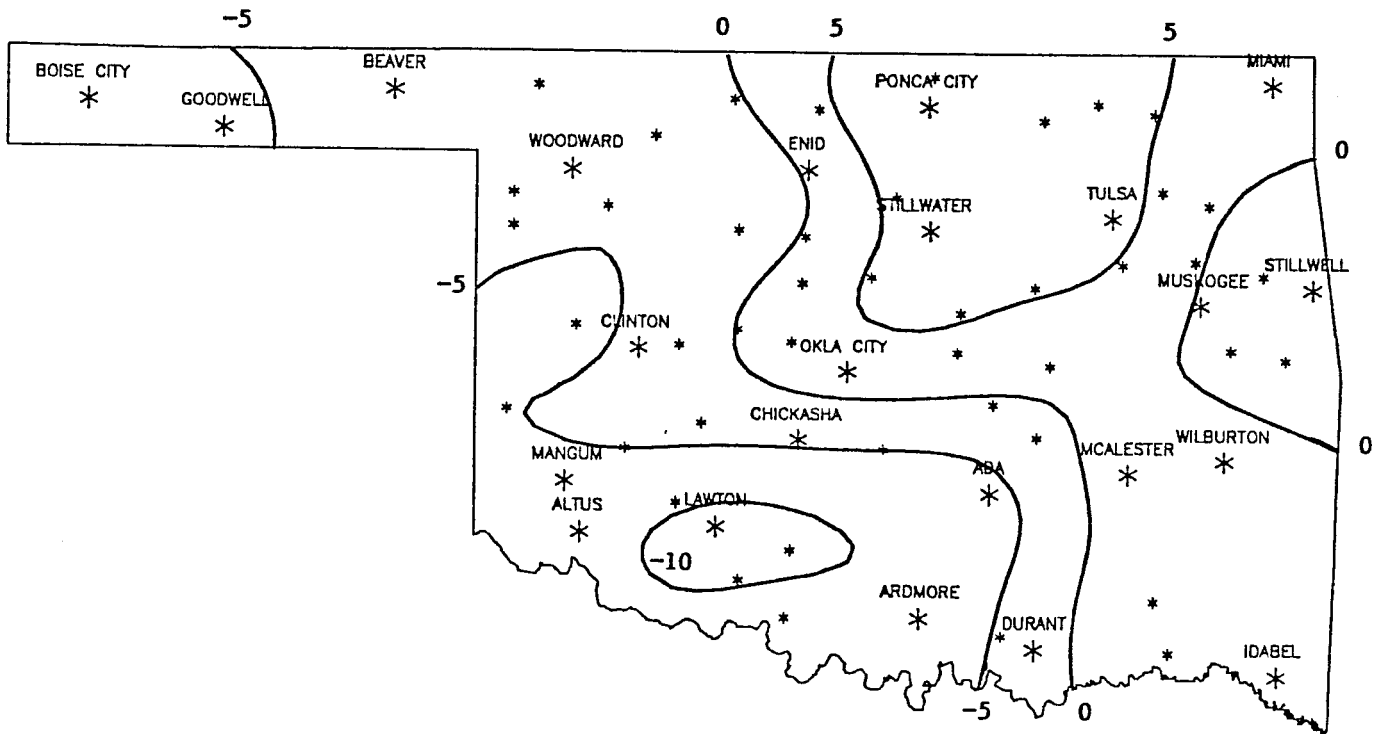
MARCH 1991 HEATING DEGREE DAYS



MARCH 1991 DEVIATION FROM NORMAL HEATING DEGREE DAYS

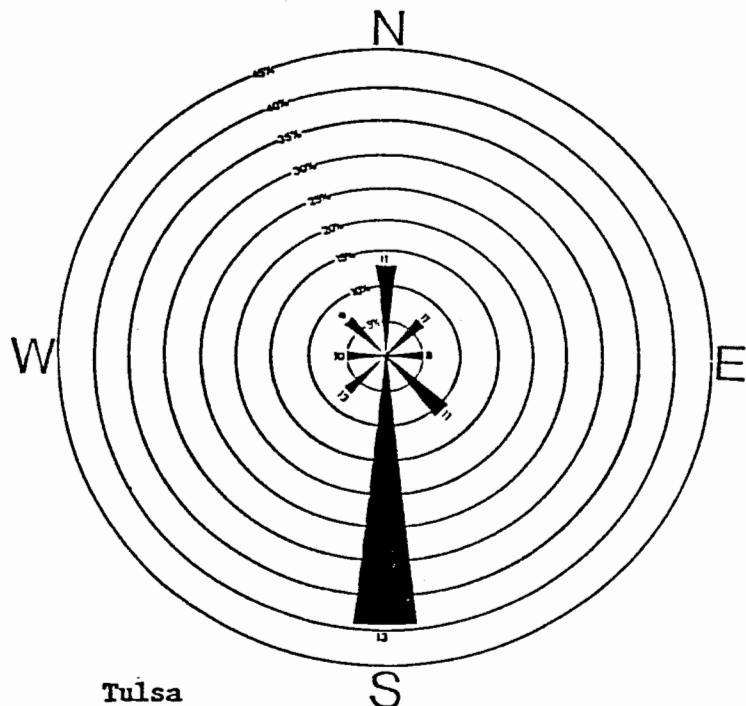
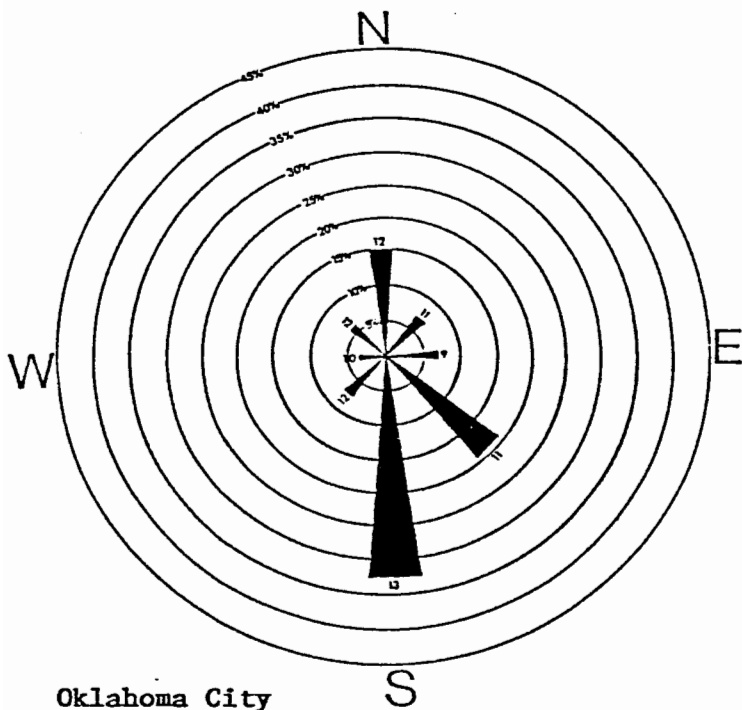


MARCH 1991 COOLING DEGREE DAYS



MARCH 1991 DEVIATION FROM NORMAL COOLING DEGREE DAYS

May wind roses for Oklahoma City and Tulsa for 10-year (1965-1974) mean winds (data adapted from NOAA Airport Climatology Series). Percents represent the percentages 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.



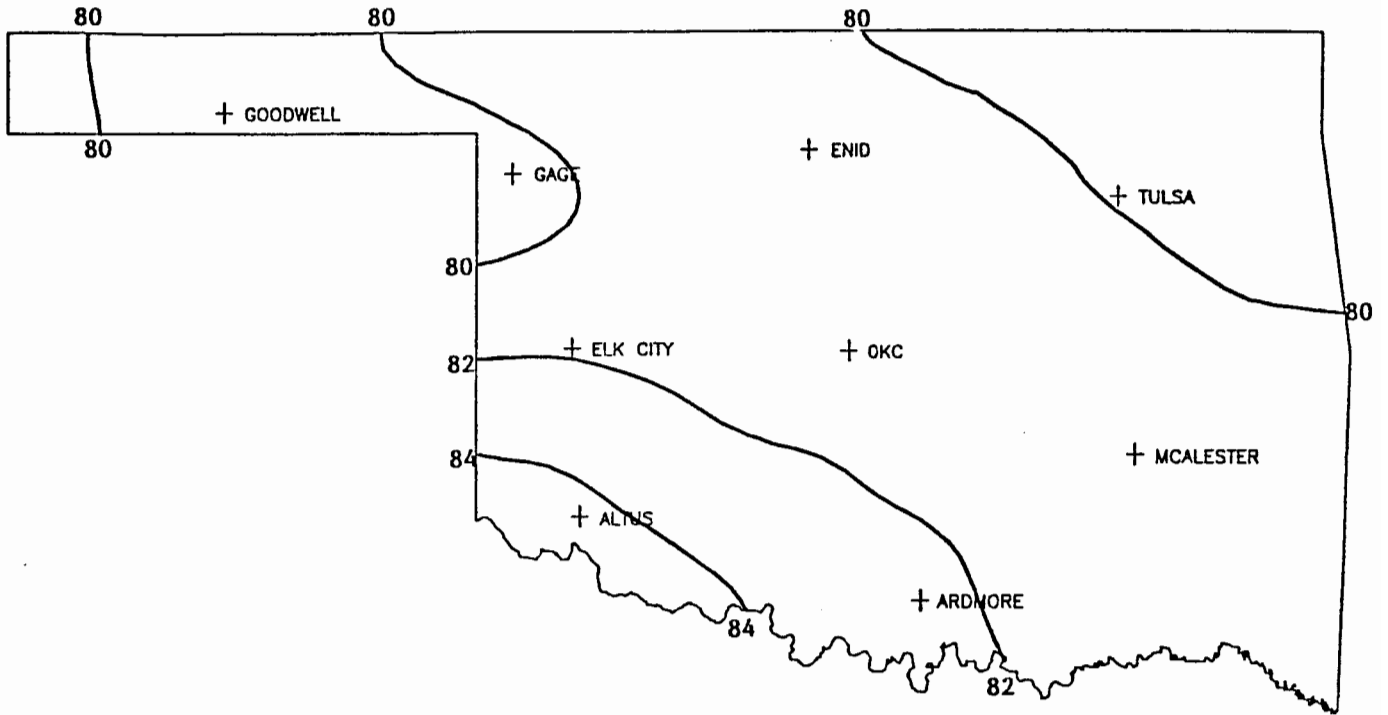
MAY 1991 SUNRISE AND SUNSET

Oklahoma City

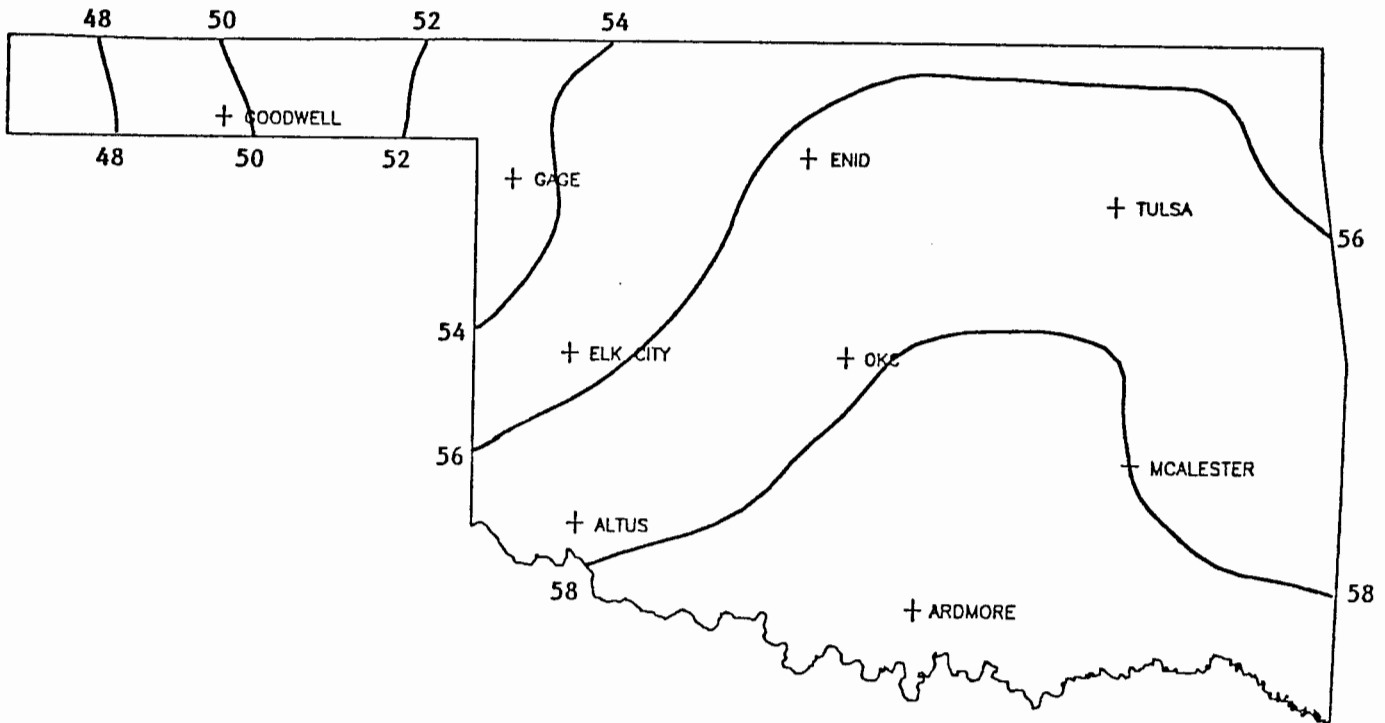
| DATE | SUNRISE | SUNSET | DAYLIGHT |
|--------|---------|-----------|----------|
| 910501 | 6:40AM | 8:14PM LT | 13:34 |
| 910502 | 6:39AM | 8:15PM LT | 13:36 |
| 910503 | 6:38AM | 8:16PM LT | 13:38 |
| 910504 | 6:37AM | 8:17PM LT | 13:40 |
| 910505 | 6:36AM | 8:18PM LT | 13:41 |
| 910506 | 6:35AM | 8:18PM LT | 13:43 |
| 910507 | 6:34AM | 8:19PM LT | 13:45 |
| 910508 | 6:33AM | 8:20PM LT | 13:47 |
| 910509 | 6:33AM | 8:21PM LT | 13:48 |
| 910510 | 6:32AM | 8:22PM LT | 13:50 |
| 910511 | 6:31AM | 8:22PM LT | 13:52 |
| 910512 | 6:30AM | 8:23PM LT | 13:53 |
| 910513 | 6:29AM | 8:24PM LT | 13:55 |
| 910514 | 6:28AM | 8:25PM LT | 13:56 |
| 910515 | 6:28AM | 8:25PM LT | 13:58 |
| 910516 | 6:27AM | 8:26PM LT | 13:59 |
| 910517 | 6:26AM | 8:27PM LT | 14: 1 |
| 910518 | 6:26AM | 8:28PM LT | 14: 2 |
| 910519 | 6:25AM | 8:28PM LT | 14: 4 |
| 910520 | 6:24AM | 8:29PM LT | 14: 5 |
| 910521 | 6:24AM | 8:30PM LT | 14: 6 |
| 910522 | 6:23AM | 8:31PM LT | 14: 7 |
| 910523 | 6:23AM | 8:31PM LT | 14: 9 |
| 910524 | 6:22AM | 8:32PM LT | 14:10 |
| 910525 | 6:22AM | 8:33PM LT | 14:11 |
| 910526 | 6:21AM | 8:33PM LT | 14:12 |
| 910527 | 6:21AM | 8:34PM LT | 14:13 |
| 910528 | 6:20AM | 8:35PM LT | 14:15 |
| 910529 | 6:20AM | 8:35PM LT | 14:16 |
| 910530 | 6:19AM | 8:36PM LT | 14:17 |
| 910531 | 6:19AM | 8:37PM LT | 14:18 |

TULSA

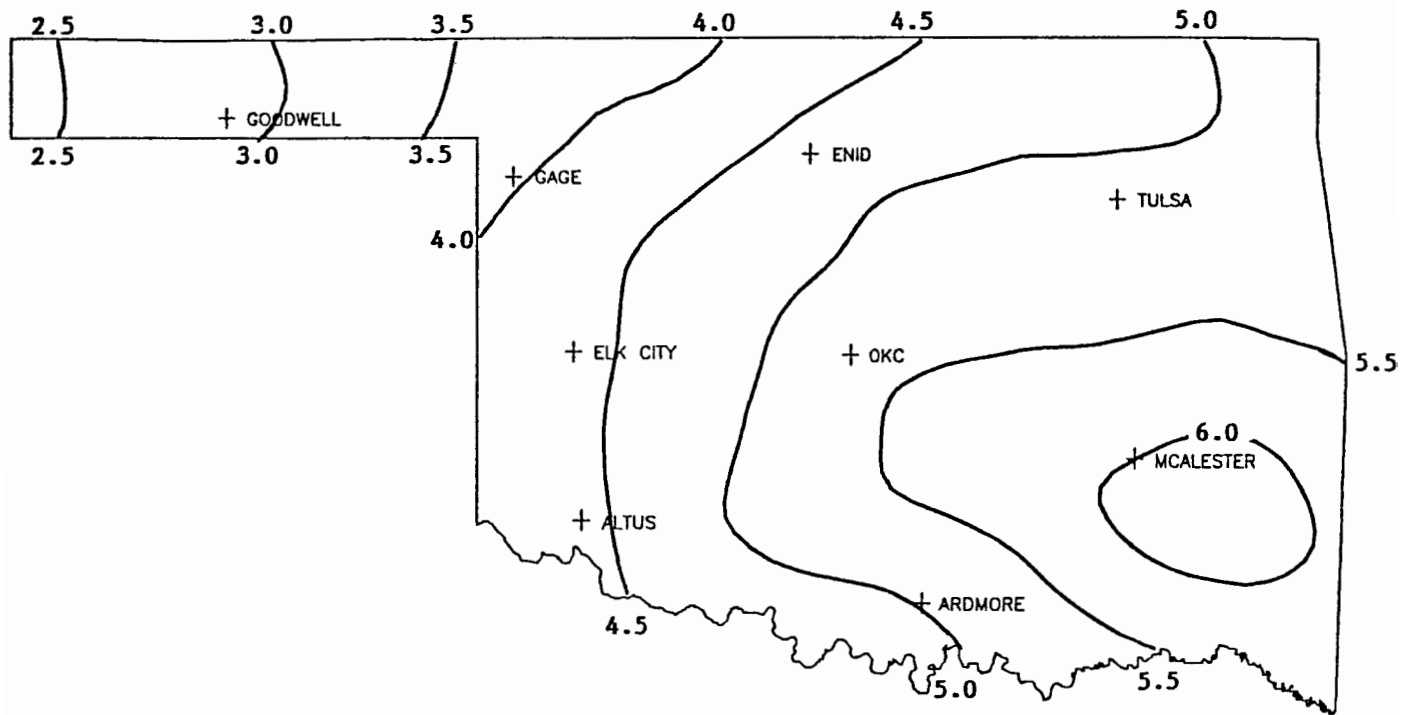
| DATE | SUNRISE | SUNSET | DAYLIGHT |
|--------|---------|-----------|----------|
| 910501 | 6:32AM | 8: 9PM LT | 13:37 |
| 910502 | 6:31AM | 8:10PM LT | 13:39 |
| 910503 | 6:30AM | 8:11PM LT | 13:41 |
| 910504 | 6:29AM | 8:11PM LT | 13:42 |
| 910505 | 6:28AM | 8:12PM LT | 13:44 |
| 910506 | 6:27AM | 8:13PM LT | 13:46 |
| 910507 | 6:26AM | 8:14PM LT | 13:48 |
| 910508 | 6:25AM | 8:15PM LT | 13:50 |
| 910509 | 6:24AM | 8:15PM LT | 13:51 |
| 910510 | 6:23AM | 8:16PM LT | 13:53 |
| 910511 | 6:22AM | 8:17PM LT | 13:55 |
| 910512 | 6:22AM | 8:18PM LT | 13:56 |
| 910513 | 6:21AM | 8:19PM LT | 13:58 |
| 910514 | 6:20AM | 8:19PM LT | 14: 0 |
| 910515 | 6:19AM | 8:20PM LT | 14: 1 |
| 910516 | 6:18AM | 8:21PM LT | 14: 3 |
| 910517 | 6:18AM | 8:22PM LT | 14: 4 |
| 910518 | 6:17AM | 8:23PM LT | 14: 6 |
| 910519 | 6:16AM | 8:23PM LT | 14: 7 |
| 910520 | 6:16AM | 8:24PM LT | 14: 8 |
| 910521 | 6:15AM | 8:25PM LT | 14:10 |
| 910522 | 6:14AM | 8:26PM LT | 14:11 |
| 910523 | 6:14AM | 8:26PM LT | 14:12 |
| 910524 | 6:13AM | 8:27PM LT | 14:14 |
| 910525 | 6:13AM | 8:28PM LT | 14:15 |
| 910526 | 6:12AM | 8:28PM LT | 14:16 |
| 910527 | 6:12AM | 8:29PM LT | 14:17 |
| 910528 | 6:11AM | 8:30PM LT | 14:18 |
| 910529 | 6:11AM | 8:31PM LT | 14:20 |
| 910530 | 6:11AM | 8:31PM LT | 14:21 |
| 910531 | 6:10AM | 8:32PM LT | 14:22 |



30-YEAR MEAN MAY DAILY MAXIMUM TEMPERATURE



30-YEAR MEAN MAY DAILY MINIMUM TEMPERATURE



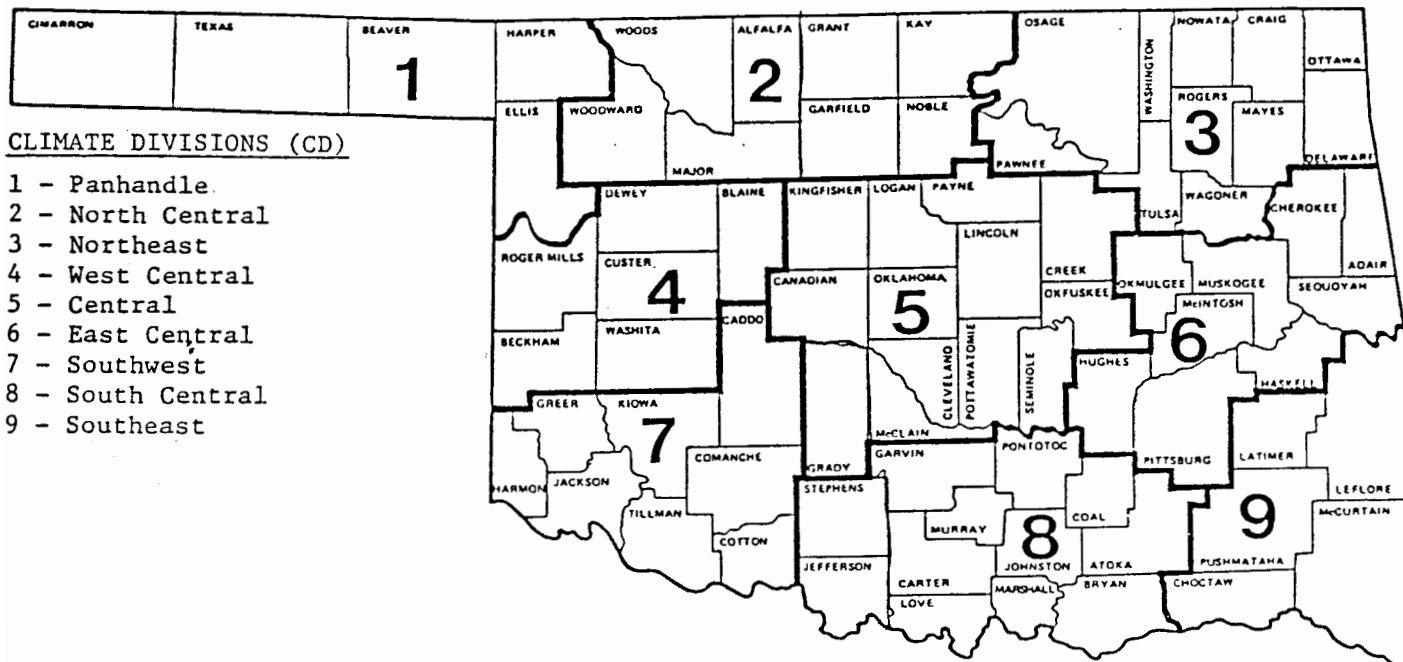
30-YEAR MEAN MAY PRECIPITATION

90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(April-June 1991)

Precipitation - Near Normal Statewide

Temperature - Near Normal Statewide



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:

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

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.

The data on this calendar are for Oklahoma City.
 Normal values are calculated for the period
 1948-1988. Extremes are found for the period
 of record (1924-present).

MAY 1991

CLIMATE CALENDAR

| | | | | | | | | | | | | | |
|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| Normal 1 | Actual | Normal 2 | Actual | Normal 3 | Actual | Normal 4 | Actual | Normal 5 | Actual | Normal 6 | Actual | Normal 7 | Actual |
| 73.4 max 52.9 min .089 ppt 2 hdd 3 cdd | 93-1948 53-1966 39-1963 65-1959 1.63-1954 | 74.9 max 52.4 min .122 ppt 3 hdd 2 cdd | 94-1943 52-1954 39-1961 69-1959 2.99-1990 | 74.7 max 54.0 min .099 ppt 3 hdd 3 cdd | 92-1940 49-1978 32-1954 70-1949 2.48-1976 | 77.2 max 54.2 min .117 ppt 3 hdd 3 cdd | 90-1943 44-1935 36-1954 70-1949 1.71-1941 | 77.4 max 57.5 min .155 ppt 1 hdd 4 cdd | 94-1940 50-1935 40-1935 69-1940 1.58-1967 | 77.2 max 56.1 min .101 ppt 2 hdd 4 cdd | 94-1954 61-1960 37-1944 70-1986 2.61-1930 | 77.1 max 55.2 min .059 ppt 2 hdd 3 cdd | 88-1934 58-1972 42-1938 71-1927 1.60-1966 |
| Normal 8 | Actual | Normal 9 | Actual | Normal 10 | Actual | Normal 11 | Actual | Normal 12 | Actual | Normal 13 | Actual | Normal 14 | Actual |
| 78.0 max 55.0 min .114 ppt 2 hdd 4 cdd | 92-1989 50-1943 38-1938 70-1927 3.09-1959 | 77.9 max 56.5 min .153 ppt 2 hdd 4 cdd | 90-1927 55-1943 44-1969 70-1963 3.37-1943 | 75.8 max 56.7 min .323 ppt 2 hdd 4 cdd | 98-1967 53-1954 42-1946 71-1963 1.43-1934 | 77.0 max 56.3 min .075 ppt 3 hdd 4 cdd | 93-1963 54-1954 37-1981 70-1933 4.30-1929 | 77.2 max 55.9 min .157 ppt 2 hdd 4 cdd | 90-1986 60-1966 39-1979 72-1956 3.11-1967 | 77.2 max 56.5 min .184 ppt 2 hdd 4 cdd | 95-1984 49-1953 39-1971 68-1974 2.59-1983 | 78.0 max 55.6 min .148 ppt 2 hdd 4 cdd | 92-1952 55-1934 41-1953 69-1990 2.48-1986 |
| Normal 15 | Actual | Normal 16 | Actual | Normal 17 | Actual | Normal 18 | Actual | Normal 19 | Actual | Normal 20 | Actual | Normal 21 | Actual |
| 78.8 max 57.2 min .141 ppt 1 hdd 5 cdd | 90-1931 47-1945 39-1942 71-1990 2.73-1980 | 80.8 max 58.4 min .188 ppt 1 hdd 6 cdd | 92-1966 58-1945 41-1945 75-1974 1.81-1986 | 79.2 max 58.9 min .350 ppt 1 hdd 5 cdd | 98-1966 63-1935 39-1945 74-1974 3.17-1951 | 80.3 max 58.6 min .109 ppt 6 hdd 6 cdd | 95-1956 65-1957 45-1976 72-1938 1.05-1951 | 80.6 max 58.3 min .233 ppt 1 hdd 6 cdd | 98-1973 66-1955 46-1971 71-1933 3.35-1955 | 79.2 max 58.9 min .291 ppt 1 hdd 5 cdd | 94-1990 63-1942 43-1981 73-1933 2.74-1978 | 81.3 max 59.8 min .154 ppt 1 hdd 7 cdd | 95-1953 56-1969 47-1942 73-1953 1.60-1987 |
| Normal 22 | Actual | Normal 23 | Actual | Normal 24 | Actual | Normal 25 | Actual | Normal 26 | Actual | Normal 27 | Actual | Normal 28 | Actual |
| 80.9 max 60.7 min .184 ppt 6 hdd 6 cdd | 98-1939 58-1963 42-1931 74-1953 2.62-1975 | 80.5 max 60.4 min .211 ppt 1 hdd 6 cdd | 99-1939 60-1935 48-1963 72-1953 3.09-1952 | 80.3 max 61.0 min .122 ppt 0 hdd 6 cdd | 94-1939 63-1947 42-1935 72-1989 1.90-1957 | 82.0 max 61.4 min .156 ppt 0 hdd 7 cdd | 93-1980 69-1976 47-1947 72-1937 1.49-1988 | 81.4 max 60.4 min .307 ppt 1 hdd 7 cdd | 95-1953 57-1950 49-1988 71-1953 2.00-1959 | 81.5 max 59.4 min .389 ppt 0 hdd 6 cdd | 96-1927 64-1976 43-1961 76-1927 5.38-1987 | 81.1 max 61.2 min .210 ppt 0 hdd 7 cdd | 91-1926 62-1932 43-1947 71-1942 2.33-1987 |
| Normal 29 | Actual | Normal 30 | Actual | Normal 31 | Actual | | | | | | | | |
| 82.5 max 61.3 min .304 ppt 8 hdd 8 cdd | 94-1985 62-1947 39-1947 73-1989 5.63-1970 | 83.1 max 62.5 min .188 ppt 0 hdd 8 cdd | 104-1985 66-1975 45-1947 74-1974 2.30-1925 | 81.9 max 62.8 min .216 ppt 0 hdd 8 cdd | 98-1928 69-1964 48-1975 74-1949 1.64-1966 | | | | | | | | |

MAY AVERAGES

Temperature : 68.4 °F

Precipitation : 5.65"

Heating Degree Days : 40

Cooling Degree Days : 158