

OKLAHOMA MONTHLY SUMMARY APRIL 1990

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APRIL 1990 OKLAHOMA SUMMARY

Oklahoma recorded its 5th wettest April on record (See Table 1). Flooding forced evacuations, collapsed bridges, contaminated water supplies, and drowned 2 people. This fourth consecutive month of above normal precipitation (see Figure 1) contributed to the wettest January-April period since record-keeping began in 1892 (see Figure 2). Several southern and eastern stations reported rain on 13 days and record monthly precipitation totals (see Table 2). Extensive cloud cover, which limited solar radiation, combined with several cool air intrusions to produce below normal temperatures in all CD's.

A cold front triggered the development of severe thunderstorms over western Oklahoma on April 5. Durant recorded nickel-size hail before the front moved quickly eastward through the State. Many southeastern Oklahoma stations reported more than one inch of rain. Cool Canadian air behind the front limited high temperatures to the 50's on April 6, some 15 to 25 degrees below the highs of the previous day. The widespread freeze on the morning of April 7 encompassed even the southern cities of Altus, Marlow and Antlers.

Violent thunderstorms accompanied another cold front moving southeastward through the State on April 9 and 10. A tornado near Ardmore injured at least 5 people and caused an estimated \$300,000 damage. Powerful straight line winds damaged structures in Pushmataha and Leflore Counties. Cool air aloft and strong updrafts supported the growth of abundant hail in storms over much of the State, including 1.5" hailstones in Beaver County, golfball-size hail near Cherokee, quarter-size hail near Waynoka, and smaller hail in several northeastern counties.

On April 13, thunderstorms along a cold front produced hail which covered the ground to a depth of 6 inches in Canadian County, one of 53 Oklahoma counties included in a NWS-issued severe thunderstorm watch. The central Oklahoma storms also generated a funnel cloud near Watonga and 75 mph winds in Okarche.

A well-sustained, vigorous cold front and squall line raced through Oklahoma on April 15 and 16. The Statewide impacts included 92 mph winds (the strongest in 20 years) and 8 damaged aircraft at the Oklahoma City airport, baseball-size hail in Lincoln and Bryan Counties, golfball-size hail in Coal and Pontotoc Counties, uprooted trees in central Oklahoma, widespread street flooding, and 5 drowned cattle in Cherokee County. The Canadian air behind the front lowered temperatures 10 to 20 degrees.

An extreme rainfall scenario developed during the third week of the month. A very strong low pressure system entrenched itself over the western U.S., blocked by a high pressure ridge over the eastern states. For several days, upper level disturbances along and ahead of the low center spawned thunderstorms. On April 18 and 19 storms delivered 2-4" of rain to much of the southern one-half of the State. Additional rain-producing impulses on several consecutive days produced at least one day of 1 to 2" in all CD's. On the 23rd, turbulent waters on Fort Gibson Lake in east central Oklahoma overturned a boat and drowned its 2 passengers. A vigorous cold front accompanied the eventual progression of the system through the State on April 25 and 26. A tornado in downtown Shattuck on April 25 injured four people and caused an estimated \$2 million damage. Rainfall amounts associated with the frontal passage generally varied from .5 to 1.5" in the west and north, and 2 to 3.5" in the southeastern one-third of Oklahoma. CD-averaged precipitation totals for the 11-day period of April 16-26 are listed in Table 3 and expressed as a percent of the mean precipitation for the entire month of April.

Rising floodwaters prompted the evacuation of several homes in McCurtain, Roger Mills and Carter Counties late in the month. Bridge and road damage was estimated at \$2.5 million in Carter County alone. Flooding forced the closing of some recreational facilities at 35 State parks.

Figure 2.

Oklahoma's 5 Greatest Januray-April
Statewide-Averaged Precipitation Totals

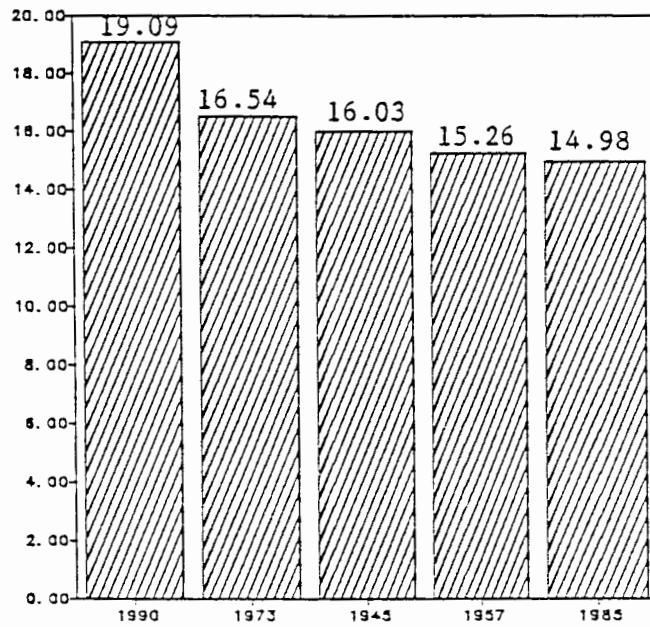


Table 2.

Record April Precipitation Amounts

| <u>CD</u> | <u>Station</u> | <u>1990</u> | <u>Previous Record</u> | |
|-----------|----------------|-------------|------------------------|-------------|
| | | | <u>Amount</u> | <u>Year</u> |
| 5 | Wewoka | 9.54 | 9.37 | 1967 |
| 6 | Sallisaw | 13.39 | 12.11 | 1957 |
| 6 | Wetumka | 11.36 | 9.50 | 1967 |
| 7 | Grandfield | 7.18 | 6.30 | 1957 |
| 8 | Healdton | 12.02 | 9.26 | 1967 |
| 8 | Marietta | 13.72 | 12.82 | 1957 |
| 8 | Tishomingo | 14.37 | 14.18 | 1957 |

Table 3.

April 16-26, 1990 CD-Averaged Precipitation Accumulations and Comparison to Mean Precipitation for the Entire Month.

| CD | April 1990 PPT | Percent of Mean PPT For Entire Month |
|----|----------------|--------------------------------------|
| 1 | 2.71 | 150 |
| 2 | 1.68 | 63 |
| 3 | 3.72 | 104 |
| 4 | 2.97 | 130 |
| 5 | 5.56 | 171 |
| 6 | 8.01 | 178 |
| 7 | 3.52 | 156 |
| 8 | 8.63* | 227 |
| 9 | 6.11 | 124 |

* Represents 88% of mean January-April total precipitation.

TABLE OF 1989/1990 COMPARISONS

| Station | April Temperatures (F) | | April Precipitation (in.) | |
|---------------|------------------------|------|---------------------------|-------|
| | 1989 | 1990 | 1989 | 1990 |
| Arnett | 60.4 | 56.2 | .68 | 2.96 |
| Enid | 62.7 | 58.0 | .60 | 2.45 |
| Mutual | 60.6 | 54.8 | .63 | 3.60 |
| Tulsa | 64.0 | 60.3 | .34 | 5.31 |
| Elk City | 62.8 | 58.7 | .001 | 1.62 |
| Oklahoma City | 63.9 | 59.9 | .17 | 5.13 |
| McAlester | 63.7 | 61.0 | .50 | 10.75 |
| Altus Irr Sta | 65.7 | 61.0 | .34 | 3.40 |
| Durant | 63.1 | 60.5 | .66 | 12.71 |
| Ada | 63.0 | 58.9 | .54 | 11.37 |
| Antlers | 64.3 | 63.1 | 1.04 | 7.74 |

EXTREMES

| Variable | Station | Division | Observation | Date |
|-------------------------------|-----------|----------|-------------|------|
| Minimum temperature (F) | Perry | 2 | 15 | 7 |
| Maximum temperature (F) | Boswell | 9 | 92 | 29 |
| | Tuskahoma | 9 | 92 | 29 |
| Maximum 24-hour precipitation | Cheyenne | 4 | 8.68" | 23 |

APRIL 1990 SUMMARY FOR NORTHWEST DIVISION (CD1)

| NAME | ID | CD | DEV | | | | | | HEAT | | DEV | | COOL | | DEV | | TOT | NUM | FROM | MAX | 24-HR | DAY |
|----------------|--------|----|-------|-----|-------|------|-----|------|------|-------|-------|-------|-------|-------|-----|-------|------|-----|------|-----|-------|-----|
| | | | MEAN | NUM | FROM | MAX | MIN | DAY | DEG | FROM | DEG | FROM | DEG | FROM | PPT | OBS | | | | | | |
| ARNETT | 332 | 1 | 55.9 | 30 | -1.5 | 84. | 10 | 31. | 6 | 290.0 | 42.0 | 18.0 | -2.0 | 2.960 | 30 | 1.18 | .94 | 18 | | | | |
| BEAVER | 593 | 1 | 55.4 | 30 | -1.7 | 87. | 23 | 30. | 6 | 303.0 | 49.0 | 14.5 | -2.5 | 2.591 | 30 | 1.34 | .95 | 17 | | | | |
| BOISE CITY 2 E | 908 | 1 | 55.2 | 30 | .8 | 84. | 23 | 24. | 6 | 301.5 | -24.5 | 8.0 | .0 | .425 | 30 | -.93 | .15 | 26 | | | | |
| BUFFALO | 1243 | 1 | 59.0 | 30 | -.7 | 87. | 22 | 27. | 7 | 204.5 | 10.5 | 26.0 | -9.0 | 2.440 | 30 | .37 | 1.25 | 25 | | | | |
| FARGO | 3070 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.652 | 30 | 1.82 | 2.25 | 17 | | | | |
| GAGE FAA APT | 3407 | 1 | 57.3 | 30 | -.3 | 85. | 21 | 32. | 6 | 261.5 | 18.5 | 29.0 | 11.0 | 2.474 | 30 | .62 | .78 | 17 | | | | |
| GATE | 3489 | 1 | 56.3 | 30 | ***** | 87. | 23 | 31. | 12 | 282.0 | ***** | 22.0 | ***** | 2.610 | 30 | ***** | 1.05 | 25 | | | | |
| GOODWELL RES | ST3628 | 1 | 53.8 | 30 | -2.1 | 85. | 29 | 27. | 6 | 342.5 | 52.5 | 5.5 | -11.5 | 1.406 | 30 | .30 | .70 | 25 | | | | |
| GUYMON | 3835 | 1 | 55.9 | 28 | ***** | 87. | 23 | 27. | 6 | 267.0 | ***** | 13.0 | ***** | 1.932 | 29 | ***** | .55 | 10 | | | | |
| HOOKER | 4298 | 1 | 55.7 | 30 | -.6 | 86. | 24 | 29. | 7 | 295.0 | 21.0 | 15.5 | 2.5 | 1.851 | 30 | .66 | .68 | 25 | | | | |
| KENTON | 4766 | 1 | 53.8 | 30 | -.7 | 84. | 29 | 24. | 6 | 338.0 | 10.0 | .5 | -9.5 | .561 | 30 | -.73 | .21 | 27 | | | | |
| LAVERNE | 5045 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.133 | 30 | 1.60 | .90 | 26 | | | | |
| OPTIMA LAKE | 6740 | 1 | 56.0 | 28 | ***** | 88. | 24 | 30. | 7 | 271.0 | ***** | 19.5 | ***** | 5.112 | 30 | ***** | 3.65 | 25 | | | | |
| RANGE | 7412 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.972 | 30 | ***** | 1.78 | 24 | | | | |
| REGNIER | 7534 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | .742 | 30 | -.37 | .28 | 16 | | | | |
| TURPIN 4 SSE | 9017 | 1 | 54.9 | 29 | ***** | 84. | 24 | 30. | 6 | 303.0 | ***** | 11.0 | ***** | 3.410 | 30 | ***** | 1.98 | 25 | | | | |

APRIL 1990 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

| NAME | ID | CD | DEV | | | | | | HEAT | | DEV | | COOL | | DEV | | TOT | NUM | FROM | MAX | 24-HR | DAY |
|-----------------|------|----|-------|-----|-------|------|-----|------|------|-------|-------|-------|-------|-------|-----|-------|------|-----|------|-----|-------|-----|
| | | | MEAN | NUM | FROM | MAX | MIN | DAY | DEG | FROM | DEG | FROM | DEG | FROM | PPT | OBS | | | | | | |
| ALVA 1 ENE | 194 | 2 | 58.1 | 30 | -.8 | 88. | 22 | 30. | 7 | 237.5 | 23.5 | 31.5 | .5 | 2.051 | 30 | -.38 | .72 | 24 | | | | |
| VANCE AFB | 302 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.476 | 30 | ***** | .75 | 10 | | | | |
| BILLINGS | 755 | 2 | 56.3 | 29 | ***** | 86. | 23 | 27. | 7 | 275.0 | ***** | 23.5 | ***** | 1.581 | 30 | -1.34 | .55 | 10 | | | | |
| BLACKWELL 2E | 818 | 2 | 56.8 | 30 | ***** | 85. | 23 | 31. | 7 | 264.5 | ***** | 20.0 | ***** | 1.412 | 30 | ***** | .39 | 10 | | | | |
| BRAMAN | 1075 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.122 | 30 | ***** | .37 | 24 | | | | |
| CHEROKEE | 1724 | 2 | 58.2 | 29 | -1.6 | 85. | 22 | 32. | 12 | 224.0 | 28.0 | 28.0 | -12.0 | 3.350 | 30 | .80 | 1.60 | 24 | | | | |
| ENID | 2912 | 2 | 58.5 | 30 | -1.9 | 83. | 22 | 33. | 7 | 228.5 | 50.5 | 34.0 | -6.0 | 2.450 | 30 | -.33 | .73 | 17 | | | | |
| FREEDOM | 3358 | 2 | 58.3 | 30 | ***** | 86. | 22 | 28. | 7 | 233.0 | ***** | 32.5 | ***** | 1.892 | 30 | ***** | .54 | 24 | | | | |
| GREAT SALT PLNS | 3740 | 2 | 58.2 | 30 | ***** | 86. | 23 | 32. | 6 | 243.0 | ***** | 37.5 | ***** | 1.744 | 22 | ***** | .72 | 24 | | | | |
| HARDY | 3909 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.024 | 28 | ***** | .59 | 9 | | | | |
| HELENA 1 SSE | 4019 | 2 | 55.3 | 30 | ***** | 84. | 23 | 30. | 7 | 311.0 | ***** | 20.5 | ***** | 2.406 | 30 | -.16 | 1.12 | 17 | | | | |
| JEFFERSON | 4573 | 2 | 58.7 | 30 | -.9 | 87. | 22 | 28. | 7 | 226.5 | 28.5 | 36.5 | .5 | 1.871 | 30 | -.90 | .43 | 23 | | | | |
| LAMONT | 5013 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.571 | 30 | ***** | .67 | 24 | | | | |
| MEDFORD | 5768 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.670 | 30 | ***** | .53 | 23 | | | | |
| MORRISON | 6065 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.951 | 30 | ***** | .78 | 10 | | | | |
| MUTUAL | 6139 | 2 | 54.8 | 30 | -3.4 | 83. | 22 | 29. | 7 | 317.5 | 87.5 | 12.5 | -13.5 | 3.600 | 30 | 1.15 | 1.19 | 17 | | | | |
| NEWKIRK | 6278 | 2 | 58.0 | 30 | -1.5 | 84. | 22 | 31. | 6 | 245.0 | 41.0 | 34.5 | -4.5 | 2.100 | 30 | -.85 | .56 | 24 | | | | |
| ORIENTA | 6751 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.680 | 30 | ***** | .94 | 17 | | | | |
| PERRY | 7012 | 2 | 43.7 | 30 | -17.8 | 68. | 22 | 15. | 7 | 638.5 | 481.5 | .0 | -52.0 | 4.110 | 30 | 1.41 | 1.55 | 17 | | | | |
| PONCA CITY FAA | 7201 | 2 | 58.4 | 30 | -.2 | 87. | 22 | 31. | 7 | 234.5 | 11.5 | 36.5 | 5.5 | 1.985 | 30 | -.92 | .40 | 10 | | | | |
| RED ROCK 1 NNE | 7505 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.730 | 30 | -.06 | .71 | 10 | | | | |
| RENFROW | 7556 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.653 | 30 | -.91 | .70 | 24 | | | | |
| WAYNOKA | 9404 | 2 | 57.8 | 30 | -2.5 | 86. | 22 | 31. | 12 | 250.0 | 73.0 | 33.0 | -3.0 | 1.860 | 30 | -.32 | .62 | 26 | | | | |
| WOODWARD | 9760 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.164 | 30 | ***** | 1.18 | 17 | | | | |

APRIL 1990 SUMMARY FOR NORTHEAST DIVISION (CD3)

| NAME | ID CD | DEV | | | | | | | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV | | 24-HR DAY |
|---------------------|--------|-----------|---------|-----------|----------|---------|------|----------|--------------|---------------|--------------|---------------|---------|---------|-----------|------|-----------|
| | | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | MIN DAY | DAY | TEMP DAY | | | | | | | FROM NORM | MAX | |
| BARNSDALL | 535 3 | 58.3 | 30 | ***** | 83. | 23 | 27. | 7 | 233.0 | ***** | 31.5 | ***** | 4.505 | 30 | 1.22 | 1.06 | 26 |
| BARTLESVILLE ZW | 548 3 | 58.8 | 30 | -2.0 | 86. | 23 | 28. | 7 | 226.5 | 55.5 | 39.0 | -6.0 | 3.392 | 30 | .07 | .80 | 28 |
| BIXBY | 782 3 | 57.3 | 30 | -3.3 | 86. | 26 | 30. | 8 | 258.0 | 90.0 | 28.5 | -7.5 | 7.620 | 30 | 3.71 | 1.74 | 26 |
| BURBANK | 1256 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.892 | 30 | ***** | .80 | 26 |
| CHELSEA 4 S | 1717 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.350 | 30 | ***** | 1.57 | 17 |
| CLAREMORE | 1828 3 | 56.9 | 30 | -3.0 | 84. | 24 | 28. | 7 | 266.0 | 79.0 | 24.0 | -10.0 | 6.033 | 30 | 2.27 | 1.34 | 21 |
| CLEVELAND 5 WSW1902 | 3 | 60.1 | 30 | ***** | 84. | 23 | 33. | 7 | 183.0 | ***** | 36.0 | ***** | 8.080 | 30 | ***** | 1.89 | 26 |
| FORAKER | 3250 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.381 | 30 | .25 | .83 | 26 |
| HOLLOW | 4258 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.882 | 30 | .16 | .75 | 21 |
| HOMINY | 4289 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.460 | 30 | 1.34 | 1.16 | 26 |
| HULAH DAM | 4393 3 | 56.5 | 22 | ***** | 86. | 24 | 28. | 3 | 205.0 | ***** | 17.0 | ***** | 4.511 | 30 | 1.35 | .95 | 17 |
| JAY TOWER | 4567 3 | 59.4 | 30 | ***** | 86. | 30 | 30. | 7 | 213.0 | ***** | 46.0 | ***** | 7.190 | 30 | ***** | 2.50 | 10 |
| KANSAS 1 ESE | 4672 3 | 58.0 | 30 | ***** | 83. | 22 | 31. | 7 | 240.0 | ***** | 31.5 | ***** | 7.503 | 30 | ***** | 1.30 | 20 |
| KEYSTONE DAM | 4812 3 | 56.8 | 30 | ***** | 83. | 24 | 27. | 7 | 266.0 | ***** | 20.5 | ***** | 5.941 | 30 | ***** | 1.58 | 17 |
| LENAPAH | 5118 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.230 | 30 | ***** | 1.00 | 21 |
| MANNFORD 6 NW | 5522 3 | 60.2 | 30 | ***** | 88. | 22 | 29. | 7 | 183.5 | ***** | 38.5 | ***** | 6.040 | 30 | 2.75 | 1.91 | 26 |
| MARAMEC | 5540 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.913 | 30 | 2.92 | 1.72 | 26 |
| MIAMI | 5855 3 | 58.4 | 30 | -1.7 | 85. | 22 | 33. | 12 | 223.0 | 37.0 | 25.5 | -13.5 | 5.431 | 30 | 1.71 | 1.68 | 26 |
| NOWATA | 6485 3 | 57.4 | 30 | -2.5 | 85. | 22 | 31. | 7 | 258.5 | 64.5 | 31.5 | -9.5 | 3.970 | 30 | .47 | 1.30 | 26 |
| ONETA 1 WNW | 6713 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 7.953 | 30 | ***** | 2.44 | 26 |
| PAWHUSKA | 6935 3 | 58.0 | 30 | -2.5 | 84. | 23 | 28. | 7 | 241.0 | 63.0 | 31.5 | -11.5 | 4.792 | 30 | 1.72 | .98 | 26 |
| PAWHUSKA | 6937 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.352 | 30 | ***** | .79 | 24 |
| PAWNEE | 6940 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.150 | 30 | 2.18 | 1.25 | 26 |
| PRYOR 6 N | 7309 3 | 56.3 | 30 | -3.7 | 84. | 24 | 28. | 8 | 285.0 | 89.0 | 24.0 | -22.0 | 6.684 | 30 | 2.78 | 1.68 | 26 |
| RALSTON | 7390 3 | 59.3 | 30 | ***** | 86. | 22 | 26. | 6 | 207.5 | ***** | 37.5 | ***** | 4.403 | 30 | 1.43 | 1.10 | 26 |
| RAMONA 4 N | 7394 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.730 | 30 | ***** | 1.05 | 28 |
| SKIATOOK | 8258 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.870 | 30 | 2.40 | 1.64 | 17 |
| SPAVINAW | 8380 3 | 59.5 | 30 | ***** | 83. | 22 | 32. | 7 | 201.0 | ***** | 37.0 | ***** | 7.661 | 30 | 3.58 | 2.60 | 10 |
| TULSA WSO APT | 8992 3 | 60.3 | 30 | -.6 | 85. | 22 | 34. | 7 | 183.5 | 15.5 | 41.5 | -3.5 | 5.314 | 30 | 1.16 | 1.05 | 21 |
| UPPER SPAVINAW | 9101 3 | 53.5 | 28 | ***** | 80. | 23 | 24. | 7 | 332.0 | ***** | 11.0 | ***** | 6.435 | 30 | ***** | 1.56 | 10 |
| VINITA 2 N | 9203 3 | 57.9 | 30 | -1.8 | 83. | 23 | 27. | 7 | 248.0 | 59.0 | 35.0 | 5.0 | 4.510 | 30 | .44 | 1.51 | 26 |
| WAGONER | 9247 3 | 60.4 | 30 | -1.2 | 83. | 29 | 31. | 7 | 181.0 | 31.0 | 42.0 | -6.0 | 8.770 | 30 | 4.10 | 2.85 | 17 |
| WANN | 9298 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.010 | 30 | ***** | .95 | 28 |
| WYONONA | 9792 3 | 60.8 | 30 | ***** | 84. | 23 | 32. | 7 | 174.5 | ***** | 48.5 | ***** | 4.324 | 30 | ***** | .96 | 26 |

APRIL 1990 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

| NAME | ID CD | DEV | | | | | | | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV | | 24-HR DAY |
|----------------|--------|-----------|---------|-----------|----------|---------|------|----------|--------------|---------------|--------------|---------------|---------|---------|-----------|------|-----------|
| | | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | MIN DAY | DAY | TEMP DAY | | | | | | | FROM NORM | MAX | |
| CANTON DAM | 1445 4 | 55.1 | 30 | -5.0 | 83. | 23 | 28. | 7 | 313.5 | 121.5 | 17.5 | -27.5 | 5.322 | 30 | 3.03 | 2.60 | 24 |
| CHEYENNE | 1738 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 10.830 | 30 | ***** | 8.68 | 23 |
| CLINTON | 1909 4 | 59.8 | 30 | -.8 | 84. | 21 | 32. | 7 | 187.5 | 8.5 | 33.0 | -14.0 | 3.551 | 30 | 1.16 | 1.50 | 24 |
| COLONY | 2039 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.341 | 30 | ***** | 1.19 | 24 |
| CORDELL | 2125 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.803 | 30 | .61 | .77 | 17 |
| ELK CITY 1 E | 2849 4 | 58.7 | 30 | ***** | 81. | 21 | 32. | 12 | 206.0 | ***** | 16.0 | ***** | 1.621 | 30 | -.59 | .41 | 17 |
| ERICK 4 E | 2944 4 | 59.0 | 30 | -1.4 | 83. | 22 | 33. | 12 | 206.0 | 28.0 | 27.0 | -13.0 | 2.793 | 30 | .59 | 1.79 | 17 |
| GEARY | 3497 4 | 57.5 | 30 | -3.2 | 83. | 22 | 33. | 7 | 250.0 | 78.0 | 26.0 | -17.0 | 1.850 | 30 | -.61 | 1.00 | 24 |
| HAMMON 1 NNE | 3871 4 | 55.7 | 30 | -4.6 | 85. | 22 | 30. | 12 | 294.5 | 111.5 | 14.5 | -27.5 | 2.991 | 30 | .77 | 1.25 | 24 |
| LEEDEY | 5090 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.990 | 30 | .49 | .80 | 24 |
| MACKIE 4 NNW | 5463 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.510 | 30 | ***** | 1.33 | 23 |
| MORAVIA 2 NNE | 6035 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.371 | 30 | 1.28 | 1.63 | 17 |
| OKEENE | 6629 4 | 57.7 | 30 | -3.3 | 83. | 22 | 31. | 6 | 243.0 | 75.0 | 25.0 | -23.0 | 4.970 | 30 | 2.64 | 2.12 | 24 |
| RETROP | 7565 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.220 | 30 | ***** | .93 | 17 |
| REYDON | 7579 4 | 59.3 | 30 | ***** | 84. | 21 | 31. | 12 | 199.5 | ***** | 27.5 | ***** | 2.250 | 30 | -.02 | .79 | 23 |
| SAYRE | 7952 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.070 | 30 | .02 | 1.02 | 17 |
| SWEETWATER 2 E | 8652 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.361 | 30 | ***** | .73 | 16 |
| TALOGA | 8708 4 | 56.9 | 30 | -2.4 | 87. | 21 | 27. | 12 | 258.0 | 57.0 | 16.0 | -14.0 | 5.131 | 30 | 2.69 | 1.64 | 17 |
| THOMAS | 8815 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.990 | 30 | ***** | 2.12 | 24 |
| VICI | 9172 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.150 | 30 | ***** | 1.10 | 17 |
| WATONGA | 9364 4 | 57.9 | 30 | ***** | 83. | 22 | 30. | 7 | 243.0 | ***** | 30.5 | ***** | 5.421 | 30 | 3.00 | 2.90 | 24 |
| WEATHERFORD | 9422 4 | 56.9 | 30 | -3.9 | 84. | 22 | 33. | 12 | 263.5 | 95.5 | 20.0 | -22.0 | 4.481 | 30 | 2.25 | 1.38 | 24 |

APRIL 1990 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 | DAY | TEMP | DAY | DEG | FROM | DEG | | | | | | |
| AMBER | 200 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.940 | 30 | ***** | 1.41 | 19 | |
| ARCADIA | 288 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.250 | 30 | ***** | 2.96 | 17 | |
| TINKER AFB | 325 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.142 | 29 | ***** | 1.32 | 20 | |
| BLANCHARD 2 SSW | 830 | 5 | 59.9 | 29 | ***** | 84. | 21 | 32. | 7 | 181.0 | ***** | 32.5 | ***** | 6.370 | 30 | ***** | 1.56 | 20 | |
| BRISTOW | 1144 | 5 | 60.4 | 29 | -1.5 | 84. | 21 | 28. | 7 | 177.5 | 21.5 | 44.0 | -19.0 | 7.383 | 29 | ***** | 1.43 | 26 | |
| CHANDLER | 1684 | 5 | 60.2 | 30 | -1.8 | 84. | 22 | 30. | 7 | 181.0 | 40.0 | 37.0 | -14.0 | 9.730 | 30 | 6.51 | 4.10 | 17 | |
| CHICKASHA EX ST | 1750 | 5 | 59.6 | 30 | -2.7 | 85. | 16 | 29. | 7 | 195.0 | 53.0 | 34.0 | -27.0 | 5.210 | 30 | 2.37 | 1.65 | 19 | |
| COX CITY 1 E | 2196 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 8.000 | 30 | ***** | 1.90 | 19 | |
| CRESCENT | 2242 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.010 | 30 | ***** | 1.49 | 17 | |
| CUSHING | 2318 | 5 | 57.4 | 27 | ***** | 83. | 24 | 35. | 6 | 230.0 | ***** | 23.5 | ***** | 7.630 | 28 | ***** | 2.30 | 26 | |
| EL RENO 1 N | 2818 | 5 | 58.9 | 30 | -1.6 | 84. | 21 | 31. | 7 | 214.5 | 36.5 | 31.5 | -11.5 | 3.440 | 30 | .86 | 1.63 | 17 | |
| GUTHRIE | 3821 | 5 | 61.1 | 29 | -.1 | 86. | 23 | 30. | 7 | 162.0 | -2.0 | 50.0 | .0 | 4.910 | 29 | ***** | 1.90 | 17 | |
| HENNESSEY 2 SE | 4055 | 5 | 57.7 | 30 | -2.5 | 85. | 21 | 31. | 7 | 239.0 | 55.0 | 19.0 | -21.0 | 4.130 | 30 | 1.75 | 1.75 | 17 | |
| INGALLS | 4489 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.972 | 25 | ***** | 2.31 | 26 | |
| KINGFISHER 2 SE | 4861 | 5 | 59.3 | 30 | -1.5 | 85. | 22 | 30. | 7 | 208.0 | 34.0 | 37.0 | -11.0 | 3.990 | 30 | 1.57 | 1.51 | 17 | |
| KONAWA | 4915 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.690 | 30 | 7.57 | 3.70 | 27 | |
| MARSHALL | 5589 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.550 | 30 | 1.17 | 1.63 | 10 | |
| MEEKER 4 W | 5779 | 5 | 59.7 | 30 | -1.6 | 83. | 22 | 29. | 7 | 192.0 | 34.0 | 34.0 | -13.0 | 7.110 | 30 | 3.55 | 1.91 | 25 | |
| MULHALL | 6110 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.240 | 30 | ***** | 1.34 | 17 | |
| NORMAN 3 S | 6386 | 5 | 59.9 | 30 | ***** | 86. | 22 | 31. | 7 | 194.0 | ***** | 40.5 | ***** | 7.171 | 30 | 3.87 | 1.92 | 20 | |
| OKEMAH | 6638 | 5 | 60.9 | 30 | -.9 | 85. | 22 | 37. | 6 | 165.5 | 29.5 | 42.5 | 2.5 | 9.020 | 30 | 4.84 | 2.58 | 26 | |
| OKLAHOMA CITY WS | 6661 | 5 | 59.9 | 30 | -.3 | 85. | 21 | 37. | 12 | 189.0 | 5.0 | 37.0 | -3.0 | 5.133 | 30 | 2.22 | 1.17 | 19 | |
| PERKINS | 7003 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 7.340 | 30 | 4.70 | 3.02 | 17 | |
| PIEDMONT | 7068 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.041 | 30 | ***** | 2.00 | 17 | |
| PRAGUE | 7264 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.430 | 30 | 5.56 | 2.30 | 25 | |
| PURCELL 5 SW | 7327 | 5 | 60.3 | 30 | -1.4 | 84. | 22 | 28. | 7 | 174.0 | 20.0 | 34.5 | -20.5 | 9.751 | 30 | 6.38 | 2.30 | 20 | |
| SEMINOLE | 8042 | 5 | 61.6 | 30 | -1.6 | 84. | 24 | 31. | 7 | 148.5 | 16.5 | 47.5 | -30.5 | 8.880 | 30 | 4.79 | 3.52 | 26 | |
| SHAWNEE | 8110 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 7.841 | 30 | 3.97 | 2.12 | 26 | |
| STELLA | 8479 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 7.320 | 30 | ***** | 1.88 | 20 | |
| STILLWATER 2 W | 8501 | 5 | 56.9 | 30 | -3.5 | 86. | 22 | 27. | 7 | 267.5 | 84.5 | 23.5 | -21.5 | 5.881 | 30 | 3.30 | 2.12 | 17 | |
| STROUD 1 N | 8563 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 8.522 | 30 | ***** | 3.14 | 17 | |
| TROUSDALE | 8960 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 10.710 | 30 | ***** | 3.10 | 26 | |
| UNION CITY 1 SE | 9086 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.930 | 30 | .60 | .83 | 19 | |
| WELTY 1 SSE | 9479 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.651 | 30 | ***** | 2.40 | 17 | |
| WEWOKA | 9575 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.544 | 30 | 5.77 | 3.12 | 26 | |

APRIL 1990 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

| 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 | DEG | FROM | | | | | | |
| ASHLAND | 364 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.141 | 30 | ***** | 3.25 | 26 | | | | | |
| BEGGS | 631 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 10.640 | 30 | ***** | 4.18 | 17 | | | | | |
| BOYNTON | 1027 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 10.491 | 30 | ***** | 3.00 | 17 | | | | | |
| CALVIN | 1391 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.681 | 30 | 7.25 | 3.34 | 25 | | | | | |
| CHECOTAH | 1711 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.001 | 30 | 4.41 | 2.17 | 20 | | | | | |
| CLAYTON 11 WNW | 1858 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.830 | 30 | ***** | 3.15 | 26 | | | | | |
| DEWAR 2 NE | 2485 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.180 | 30 | 4.90 | 2.43 | 26 | | | | | |
| DUSTIN | 2690 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.870 | 30 | ***** | 3.08 | 26 | | | | | |
| EUFULA | 2993 | 6 | 61.7 | 30 | ***** | 87. | 29 | 34. | 7 | 147.0 | ***** | 47.0 | ***** | 9.951 | 30 | 5.27 | 2.06 | 20 | | | | | |
| HANNA | 3884 | 6 | 61.0 | 30 | ***** | 84. | 29 | 28. | 7 | 156.0 | ***** | 34.5 | ***** | 10.073 | 30 | 5.63 | 2.82 | 26 | | | | | |
| HARTSHORNE | 3946 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.071 | 30 | ***** | 2.74 | 26 | | | | | |
| HASKELL | 3956 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 8.302 | 30 | 4.19 | 1.98 | 26 | | | | | |
| HOLDENVILLE | 4235 | 6 | 60.7 | 30 | -1.5 | 84. | 22 | 29. | 7 | 167.5 | 36.5 | 38.5 | -8.5 | 9.760 | 30 | 5.39 | 3.13 | 26 | | | | | |
| LAKE EUFAULA | 4975 | 6 | 59.8 | 30 | ***** | 87. | 30 | 36. | 7 | 189.5 | ***** | 33.0 | ***** | 10.262 | 30 | ***** | 2.43 | 20 | | | | | |
| LYONS 2 N | 5437 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.151 | 30 | 4.42 | 2.27 | 17 | | | | | |
| MARBLE CITY | 5546 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 12.182 | 30 | ***** | 2.75 | 26 | | | | | |
| MCALESTER FAA | 5664 | 6 | 61.0 | 30 | - .9 | 88. | 29 | 29. | 7 | 166.5 | 22.5 | 45.5 | -5.5 | 10.753 | 30 | 6.21 | 3.65 | 26 | | | | | |
| MCCURTAIN 1 SE | 5693 | 6 | 62.7 | 30 | ***** | 90. | 29 | 28. | 7 | 125.0 | ***** | 57.0 | ***** | 8.401 | 30 | 3.63 | 1.82 | 26 | | | | | |
| MUSKOGEE | 6130 | 6 | 60.8 | 30 | -1.2 | 84. | 29 | 30. | 7 | 175.5 | 37.5 | 48.5 | .5 | 6.610 | 30 | 2.03 | 1.45 | 25 | | | | | |
| OKMULGEE W W | 6670 | 6 | 55.4 | 20 | ***** | 82. | 5 | 30. | 7 | 194.0 | ***** | 2.0 | ***** | 10.400 | 28 | ***** | 2.82 | 26 | | | | | |
| OKTAHA 2 NE | 6678 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.930 | 30 | ***** | 3.27 | 17 | | | | | |
| QUINTON | 7372 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.354 | 30 | 7.02 | 2.39 | 26 | | | | | |
| SALLISAW 2 NE | 7862 | 6 | 60.5 | 30 | -1.8 | 88. | 29 | 28. | 7 | 177.0 | 47.0 | 40.5 | -5.5 | 13.390 | 30 | 8.92 | 3.10 | 17 | | | | | |
| SCIPIO | 7979 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 10.070 | 30 | ***** | 2.91 | 20 | | | | | |
| SCRAPER | 7993 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 8.560 | 30 | ***** | 2.70 | 17 | | | | | |
| SHORT | 8170 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.400 | 30 | ***** | 2.54 | 17 | | | | | |
| STILWELL 1 NE | 8506 | 6 | 58.8 | 30 | ***** | 85. | 29 | 26. | 7 | 222.5 | ***** | 35.0 | ***** | 9.821 | 30 | 5.11 | 3.39 | 17 | | | | | |
| TAHLEQUAH | 8677 | 6 | 59.9 | 30 | -1.2 | 88. | 23 | 26. | 7 | 198.0 | 35.0 | 44.0 | -2.0 | 8.140 | 30 | 3.58 | 2.10 | 17 | | | | | |
| WEBBERS FALLS | 9445 | 6 | 58.7 | 25 | ***** | 87. | 30 | 29. | 8 | 189.0 | ***** | 31.5 | ***** | 10.840 | 30 | 6.24 | 2.92 | 17 | | | | | |
| WESTVILLE | 9523 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 10.470 | 30 | ***** | 3.62 | 17 | | | | | |
| WETUMKA 3 NE | 9571 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.264 | 30 | 6.89 | 3.11 | 26 | | | | | |

APRIL 1990 SUMMARY FOR SOUTHWEST DIVISION (CD7)

| 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 | DEG | | | | | | | |
| ALTUS IRR STA | 179 | 7 | 61.0 | 30 | -2.3 | 83. | 16 | 31. | 7 | 153.5 | 29.5 | 35.0 | -38.0 | 3.400 | 30 | 1.37 | 1.25 | 19 | | | | | |
| ALTUS DAM | 184 | 7 | 59.0 | 30 | ***** | 83. | 24 | 35. | 8 | 213.0 | ***** | 34.0 | ***** | 3.021 | 30 | 1.04 | .80 | 19 | | | | | |
| ANADARKO | 224 | 7 | 58.2 | 22 | ***** | 84. | 21 | 25. | 7 | 165.5 | ***** | 15.0 | ***** | 3.100 | 28 | ***** | 1.25 | 19 | | | | | |
| APACHE | 260 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.400 | 30 | ***** | 1.58 | 19 | | | | | |
| ALTUS AFB | 447 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.685 | 30 | ***** | 1.09 | 20 | | | | | |
| CARNEGIE 2 ENE | 1504 | 7 | 59.9 | 29 | -1.9 | 83. | 22 | 28. | 6 | 176.5 | 26.5 | 28.0 | -26.0 | 2.510 | 29 | ***** | .79 | 17 | | | | | |
| CHATANOOGA | 1706 | 7 | 60.7 | 28 | ***** | 82. | 16 | 30. | 7 | 150.0 | ***** | 29.0 | ***** | 5.200 | 28 | ***** | 2.08 | 19 | | | | | |
| DUNCAN 12 W | 2668 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 6.980 | 30 | ***** | 2.20 | 19 | | | | | |
| FREDERICK | 3353 | 7 | 59.4 | 26 | ***** | 85. | 16 | 36. | 6 | 173.5 | ***** | 27.0 | ***** | 6.620 | 26 | ***** | 2.30 | 19 | | | | | |
| GRANDFIELD 4 NW3709 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 7.180 | 30 | 4.76 | 2.33 | 19 | | | | | | |
| HOBART FAA APT | 4204 | 7 | 59.0 | 30 | -1.3 | 84. | 21 | 33. | 7 | 205.5 | 25.5 | 25.0 | -14.0 | 4.492 | 30 | 2.25 | 1.19 | 24 | | | | | |
| HOLLIS | 4249 | 7 | 61.4 | 29 | -1.8 | 87. | 18 | 32. | 7 | 139.0 | 17.0 | 36.0 | -32.0 | 1.971 | 29 | ***** | .63 | 18 | | | | | |
| LAWTON | 5063 | 7 | 58.7 | 30 | -4.0 | 82. | 23 | 33. | 7 | 208.5 | 81.5 | 18.0 | -40.0 | 5.570 | 30 | 3.16 | 2.00 | 19 | | | | | |
| FORT SILL | 5068 | 7 | 59.6 | 30 | ***** | 81. | 22 | 34. | 7 | 190.5 | ***** | 28.0 | ***** | 5.391 | 30 | 2.98 | 1.85 | 18 | | | | | |
| LOOKEBA 2 ENE | 5329 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 2.680 | 30 | ***** | .73 | 17 | | | | | |
| MANGUM RES STA | 5509 | 7 | 62.8 | 30 | .1 | 90. | 15 | 37. | 5 | 124.5 | -15.5 | 59.0 | -12.0 | 3.140 | 30 | 1.25 | .83 | 19 | | | | | |
| RANDLETT 9 E | 7403 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 10.601 | 30 | ***** | 3.50 | 19 | | | | | |
| ROOSEVELT | 7727 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.050 | 30 | 1.80 | 1.20 | 19 | | | | | |
| SEDAN | 8016 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 3.273 | 30 | ***** | 1.10 | 19 | | | | | |
| VINSON 3 WNW | 9212 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 1.720 | 30 | -.35 | .51 | 19 | | | | | |
| WALTERS | 9278 | 7 | 63.8 | 18 | ***** | 85. | 15 | 44. | 19 | 61.5 | ***** | 39.0 | ***** | 9.280 | 18 | ***** | 1.68 | 17 | | | | | |
| WICHITA MT WLR | 9629 | 7 | 56.7 | 30 | -5.1 | 82. | 22 | 27. | 8 | 261.0 | 113.0 | 11.0 | -41.0 | 5.940 | 30 | 3.49 | 1.92 | 19 | | | | | |
| WILLOW | 9668 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.490 | 30 | ***** | 1.35 | 17 | | | | | |

APRIL 1990 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

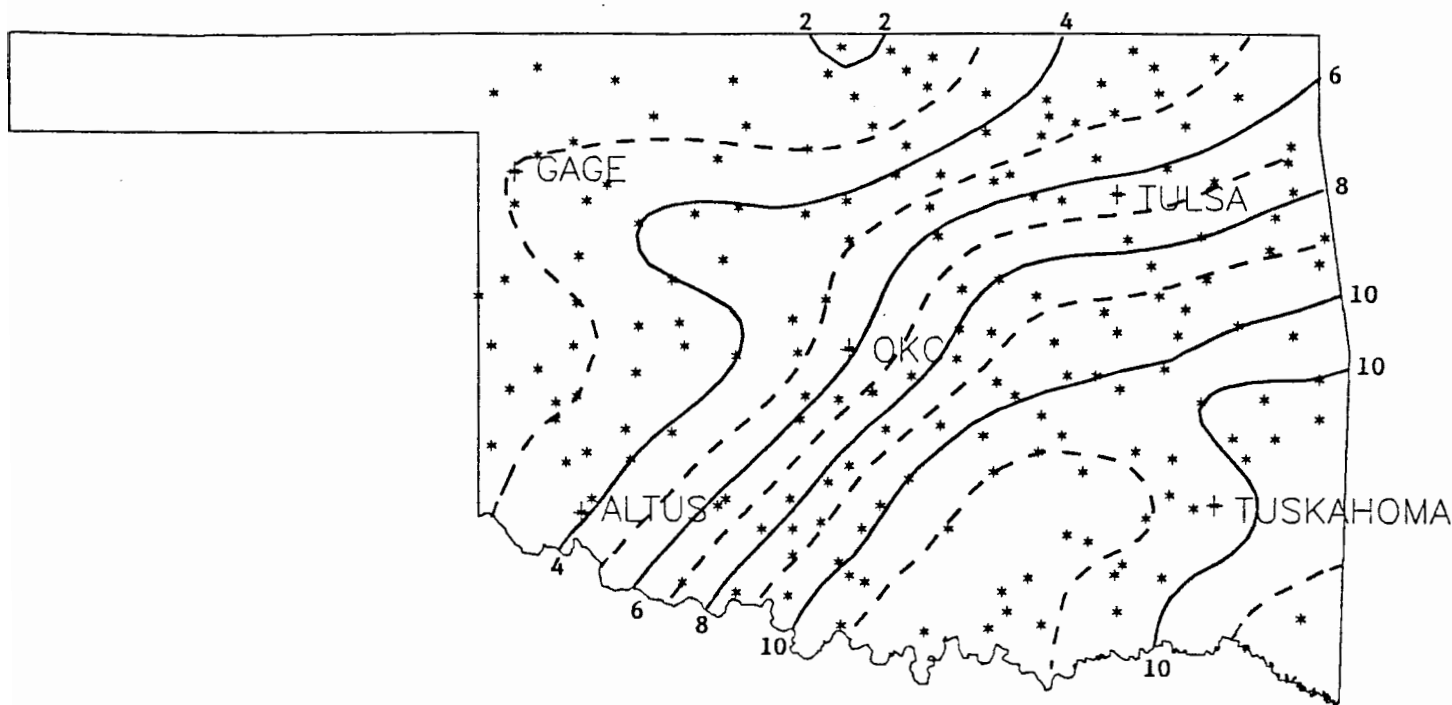
| NAME | ID | CD | DEV | | | | | | HEAT DEG | DEV FROM | COOL DEG | DEV FROM | TOT PPT | DEV | | | | |
|---------------------|------|------|-----------|---------|-----------|----------|---------|------|----------|----------|----------|----------|---------|---------|-----------|-------|-----------|----|
| | | | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | MIN DAY | DAY | | | | | | NUM OBS | FROM NORM | MAX | 24-HR DAY | |
| ADA | 17 | 8 | 59.6 | 30 | -2.9 | 83. | 23 | 33. | 8 | 193.5 | 62.5 | 31.5 | -24.5 | 11.370 | 30 | 7.60 | 3.63 | 26 |
| ALLEN | 147 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 12.850 | 30 | ***** | 4.50 | 25 |
| ARDMORE | 292 | 8 | 61.5 | 29 | -3.7 | 83. | 29 | 35. | 8 | 146.0 | 65.0 | 44.0 | -43.0 | 11.840 | 29 | ***** | 3.34 | 26 |
| ATOKA DAM | 394 | 8 | 61.0 | 30 | ***** | 86. | 30 | 39. | 12 | 163.0 | ***** | 42.0 | ***** | 8.820 | 30 | ***** | 2.00 | 26 |
| BOKCHITO | 917 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 10.600 | 30 | ***** | 3.00 | 26 |
| CANEY | 1437 | 8 | 61.6 | 30 | ***** | 86. | 29 | 32. | 7 | 161.5 | ***** | 59.0 | ***** | 13.320 | 30 | ***** | 5.22 | 26 |
| CENTRAHOMA | 1648 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.050 | 30 | ***** | 3.20 | 26 |
| CHICKASAW NRA | 1745 | 8 | 59.1 | 30 | ***** | 83. | 23 | 29. | 7 | 211.0 | ***** | 34.5 | ***** | 12.340 | 30 | ***** | 5.30 | 26 |
| COLEMAN | 2011 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.960 | 30 | ***** | 2.80 | 26 |
| COMANCHE | 2054 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.251 | 30 | ***** | 2.85 | 19 |
| DAISY 4 ENE | 2354 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 14.201 | 30 | 8.77 | 3.19 | 21 |
| DUNCAN | 2660 | 8 | 59.5 | 30 | -4.3 | 84. | 17 | 34. | 7 | 196.0 | 84.0 | 29.5 | -43.5 | 9.590 | 30 | 6.88 | 3.10 | 20 |
| DURANT USDA | 2678 | 8 | 60.5 | 30 | ***** | 89. | 30 | 30. | 7 | 178.5 | ***** | 43.5 | ***** | 12.710 | 30 | 8.17 | 5.07 | 26 |
| ELMORE CITY | 2872 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.591 | 30 | ***** | 2.40 | 20 |
| FARRIS 3 WNW | 3083 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.290 | 30 | ***** | 3.69 | 26 |
| GRADY | 3688 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 12.990 | 30 | ***** | 5.86 | 26 |
| HEALDTON | 4001 | 8 | 61.6 | 30 | ***** | 86. | 15 | 31. | 7 | 147.5 | ***** | 45.0 | ***** | 12.020 | 30 | 8.57 | 5.81 | 26 |
| HENNEPIN | 4052 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.000 | 30 | ***** | 3.40 | 26 |
| KETCHUM RANCH | 4780 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.650 | 30 | ***** | 2.75 | 19 |
| KINGSTON | 4865 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 12.021 | 30 | 7.92 | 3.21 | 26 |
| LEHIGH | 5108 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.311 | 30 | ***** | 2.75 | 26 |
| LINDSAY 2 W | 5216 | 8 | 59.4 | 27 | ***** | 83. | 21 | 30. | 7 | 174.0 | ***** | 22.5 | ***** | 8.443 | 30 | 5.13 | 1.98 | 20 |
| LOCO 6 SE | 5247 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 8.863 | 30 | ***** | 3.01 | 26 |
| MADILL | 5468 | 8 | 61.2 | 30 | -2.3 | 86. | 29 | 31. | 8 | 158.0 | 51.0 | 43.0 | -19.0 | 7.271 | 30 | 2.76 | 1.85 | 25 |
| MARIETTA | 5563 | 8 | 62.7 | 30 | -.8 | 86. | 29 | 35. | 7 | 125.0 | 15.0 | 56.0 | -9.0 | 13.721 | 30 | 9.92 | 4.25 | 26 |
| MARLOW 1 WSW | 5581 | 8 | 60.9 | 30 | ***** | 84. | 16 | 30. | 7 | 160.0 | ***** | 38.0 | ***** | 7.690 | 30 | 5.01 | 1.94 | 20 |
| MCGEE CREEK DAM5713 | 8 | 60.9 | 30 | ***** | 90. | 30 | 31. | 7 | 172.0 | ***** | 49.5 | ***** | ***** | 12.550 | 30 | ***** | 3.54 | 26 |
| OSWALT | 6787 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 8.550 | 30 | ***** | 3.00 | 26 |
| PAULS VALLEY | 6926 | 8 | 60.9 | 30 | -2.4 | 83. | 21 | 29. | 7 | 163.0 | 45.0 | 39.5 | -27.5 | 11.210 | 30 | 7.71 | 3.30 | 20 |
| TISHOMINGO NWLR8884 | 8 | 60.9 | 30 | ***** | 88. | 29 | 32. | 7 | 166.5 | ***** | 42.5 | ***** | ***** | 14.370 | 30 | 9.76 | 3.24 | 26 |
| TUSSY | 9032 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 9.370 | 30 | ***** | 2.33 | 26 |
| WAURIKA | 9395 | 8 | 62.9 | 30 | -1.6 | 86. | 16 | 33. | 7 | 118.5 | 14.5 | 55.0 | -34.0 | 8.071 | 30 | 5.11 | 2.47 | 19 |
| WAURIKA DAM | 9399 | 8 | 59.8 | 29 | ***** | 86. | 17 | 34. | 7 | 184.5 | ***** | 32.5 | ***** | 9.412 | 29 | ***** | 2.67 | 19 |

APRIL 1990 SUMMARY FOR SOUTHEAST DIVISION (CD9)

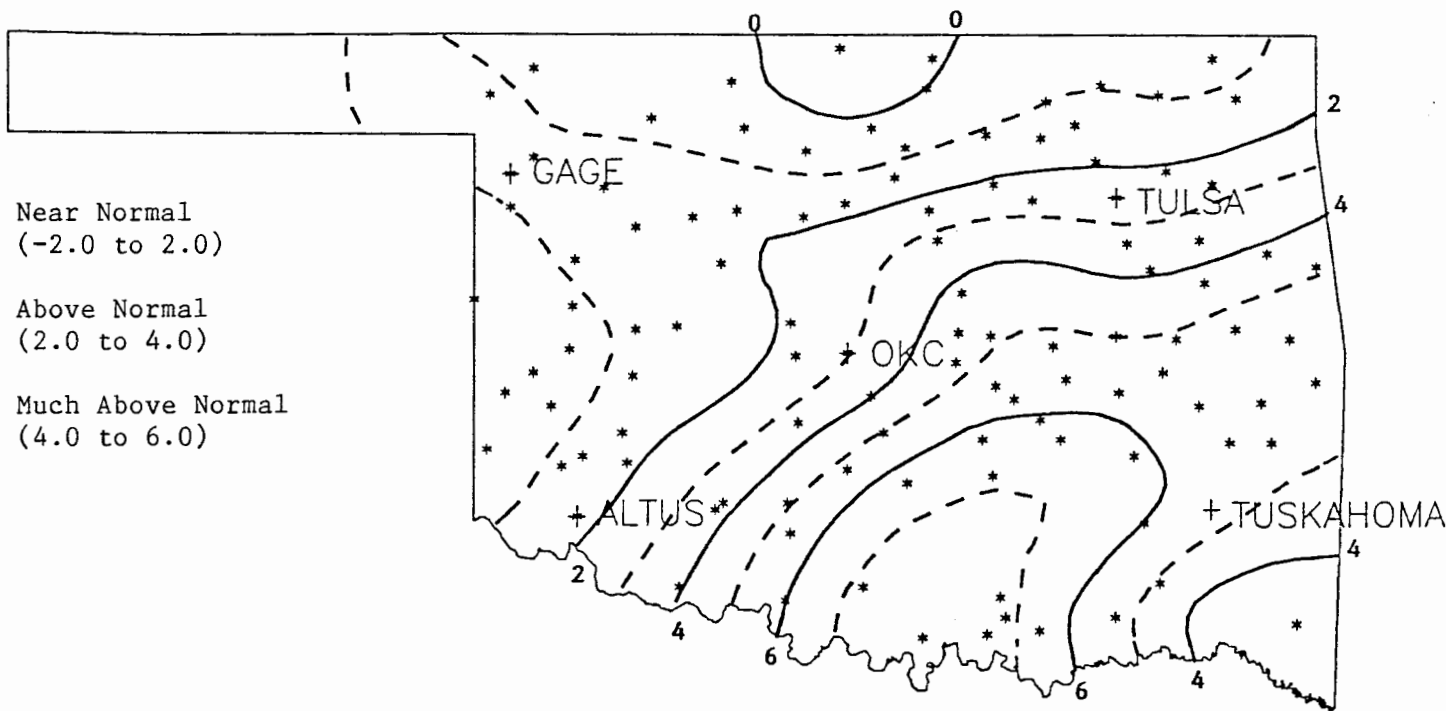
| NAME | ID | CD | DEV | | | | | | HEAT DEG | DEV FROM | COOL DEG | DEV FROM | TOT PPT | DEV | | | | |
|---------------------|------|------|-----------|---------|-----------|----------|---------|------|----------|----------|----------|----------|---------|---------|-----------|-------|-----------|----|
| | | | MEAN TEMP | NUM OBS | FROM NORM | MAX TEMP | MIN DAY | DAY | | | | | | NUM OBS | FROM NORM | MAX | 24-HR DAY | |
| ANTLERS | 256 | 9 | 62.8 | 30 | .2 | 90. | 29 | 29. | 7 | 130.0 | 9.0 | 63.0 | 14.0 | 7.740 | 30 | 2.63 | 1.38 | 5 |
| BATTIEST 1 SSW | 567 | 9 | 60.5 | 30 | ***** | 90. | 29 | 27. | 7 | 170.0 | ***** | 36.0 | ***** | 7.440 | 30 | ***** | 1.73 | 21 |
| BEAR MT TWR | 584 | 9 | 62.0 | 21 | ***** | 90. | 30 | 34. | 12 | 80.5 | ***** | 18.5 | ***** | 6.412 | 30 | 1.31 | 1.42 | 6 |
| BENGAL | 670 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 8.870 | 30 | ***** | 1.88 | 26 |
| BOSWELL 4 NNW | 980 | 9 | 64.6 | 30 | ***** | 92. | 29 | 36. | 7 | 95.0 | ***** | 83.5 | ***** | 8.285 | 30 | 3.72 | 1.63 | 26 |
| BROKEN BOW 1 N | 1162 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 6.770 | 30 | 1.44 | 1.83 | 5 |
| BROKEN BOW DAM | 1168 | 9 | 59.4 | 30 | ***** | 91. | 29 | 30. | 7 | 215.0 | ***** | 47.5 | ***** | 6.770 | 30 | ***** | 1.83 | 5 |
| CARNASAW TWR | 1499 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.930 | 10 | ***** | 4.50 | 21 |
| CARTER TWR | 1544 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 6.310 | 30 | 1.05 | 1.39 | 6 |
| FANSHAWE | 3065 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 8.730 | 30 | 3.73 | 1.42 | 10 |
| FLAGPOLE TWR | 3169 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 10.980 | 30 | ***** | 5.50 | 21 |
| HEAVENER 1 SE | 4008 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 6.712 | 30 | 1.78 | 2.18 | 21 |
| HEE MT TWR | 4017 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.791 | 30 | ***** | 1.85 | 21 |
| HUGO | 4384 | 9 | 62.8 | 30 | -1.3 | 91. | 29 | 34. | 7 | 123.0 | 29.0 | 58.5 | -8.5 | 7.572 | 29 | ***** | 1.80 | 6 |
| IDABEL | 4451 | 9 | 60.7 | 28 | ***** | 91. | 30 | 32. | 7 | 175.5 | ***** | 54.0 | ***** | 6.240 | 28 | ***** | 2.00 | 6 |
| JADIE TOWER | 4560 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 5.310 | 30 | ***** | 2.51 | 6 |
| POTEAU W W | 7254 | 9 | 59.5 | 30 | ***** | 90. | 29 | 28. | 6 | 203.0 | ***** | 37.0 | ***** | 6.880 | 30 | ***** | 1.09 | 20 |
| SMITHVILLE 1 W | 8285 | 9 | 59.0 | 30 | ***** | 88. | 29 | 25. | 7 | 201.5 | ***** | 22.0 | ***** | 8.081 | 30 | ***** | 2.26 | 20 |
| SOBAL TOWER | 8305 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 4.660 | 25 | ***** | 1.27 | 13 |
| SPIRO | 8416 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 11.350 | 30 | 6.73 | 2.27 | 16 |
| TUSKAHOMA | 9023 | 9 | 61.8 | 30 | ***** | 92. | 29 | 26. | 7 | 145.0 | ***** | 50.5 | ***** | 12.390 | 30 | ***** | 4.46 | 21 |
| VALLIANT 3 W | 9118 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ***** | ***** | ***** | ***** | 6.742 | 30 | 1.74 | 1.65 | 6 |
| WILBURTON 9 ENE9634 | 9 | 61.3 | 29 | -.8 | 90. | 29 | 27. | 7 | 146.0 | 6.0 | 39.5 | -13.5 | ***** | 9.901 | 30 | 4.85 | 2.70 | 25 |

APRIL 1990 CLIMATE DIVISION SUMMARY

| CLIMATE | MEAN | NUM | DEV | | MIN | HEAT | | DEV | COOL | | DEV | TOT | NUM | DEV | | |
|---------|------|-----|------|------|-----|--------|------|--------|------|------|-------|-------|-----|------|-------|-----|
| | | | FROM | MAX | | DEGREE | FROM | DEGREE | FROM | FROM | MAX | | | | | |
| DIV | TEMP | STA | NORM | TEMP | DAY | TEMP | DAY | DAYS | NORM | DAYS | NORM | PPT | STA | NORM | 24-HR | DAY |
| 1 | 55.7 | 10 | -.9 | 88.0 | 24 | 24.0 | 6 | 292.1 | 22.5 | 15.0 | -2.3 | 2.36 | 15 | .87 | 3.65 | 25 |
| 2 | 56.5 | 14 | -3.1 | 88.0 | 22 | 15.0 | 7 | 280.6 | 83.2 | 27.2 | -9.6 | 2.30 | 22 | -.35 | 1.60 | 24 |
| 3 | 58.6 | 19 | -1.6 | 88.0 | 22 | 24.0 | 7 | 224.8 | 43.9 | 34.2 | -5.5 | 5.54 | 34 | 2.00 | 2.85 | 17 |
| 4 | 57.7 | 11 | -2.7 | 87.0 | 21 | 27.0 | 12 | 242.2 | 62.1 | 23.0 | -19.1 | 3.68 | 22 | 1.40 | 8.68 | 23 |
| 5 | 59.8 | 15 | -1.5 | 86.0 | 22 | 27.0 | 7 | 192.6 | 31.5 | 36.3 | -13.1 | 6.83 | 30 | 3.61 | 4.10 | 17 |
| 6 | 60.7 | 10 | -1.1 | 90.0 | 29 | 26.0 | 7 | 172.4 | 28.4 | 42.3 | -4.4 | 10.05 | 30 | 5.55 | 4.18 | 17 |
| 7 | 59.8 | 9 | -2.8 | 90.0 | 15 | 25.0 | 7 | 185.8 | 50.2 | 30.4 | -33.1 | 4.71 | 17 | 2.39 | 3.50 | 19 |
| 8 | 60.9 | 16 | -2.8 | 90.0 | 30 | 29.0 | 7 | 165.3 | 56.3 | 42.8 | -28.5 | 10.90 | 31 | 7.10 | 5.86 | 26 |
| 9 | 61.3 | 9 | -1.7 | 92.0 | 29 | 25.0 | 7 | 158.7 | 43.0 | 48.6 | -7.1 | 7.97 | 19 | 2.92 | 5.50 | 21 |



APRIL 1990 TOTAL PRECIPITATION
(Inches)

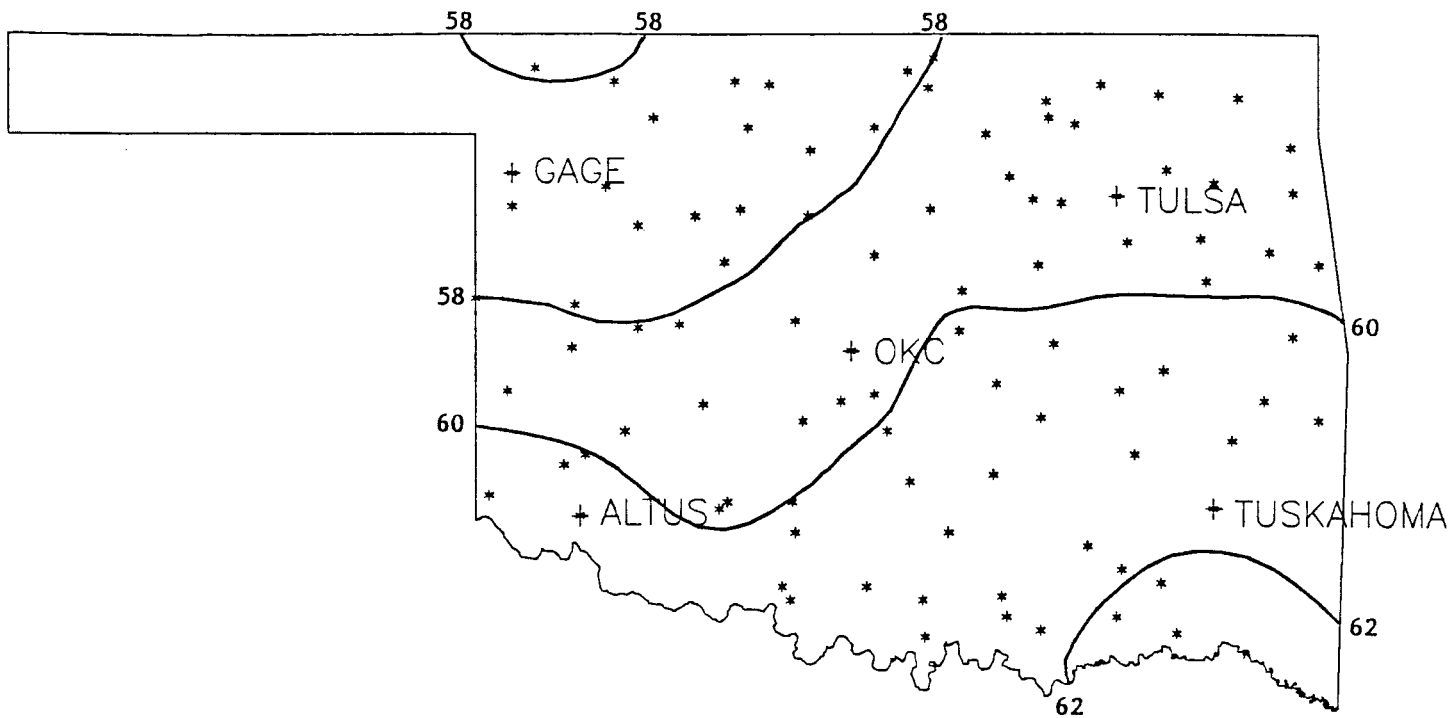


Near Normal
(-2.0 to 2.0)

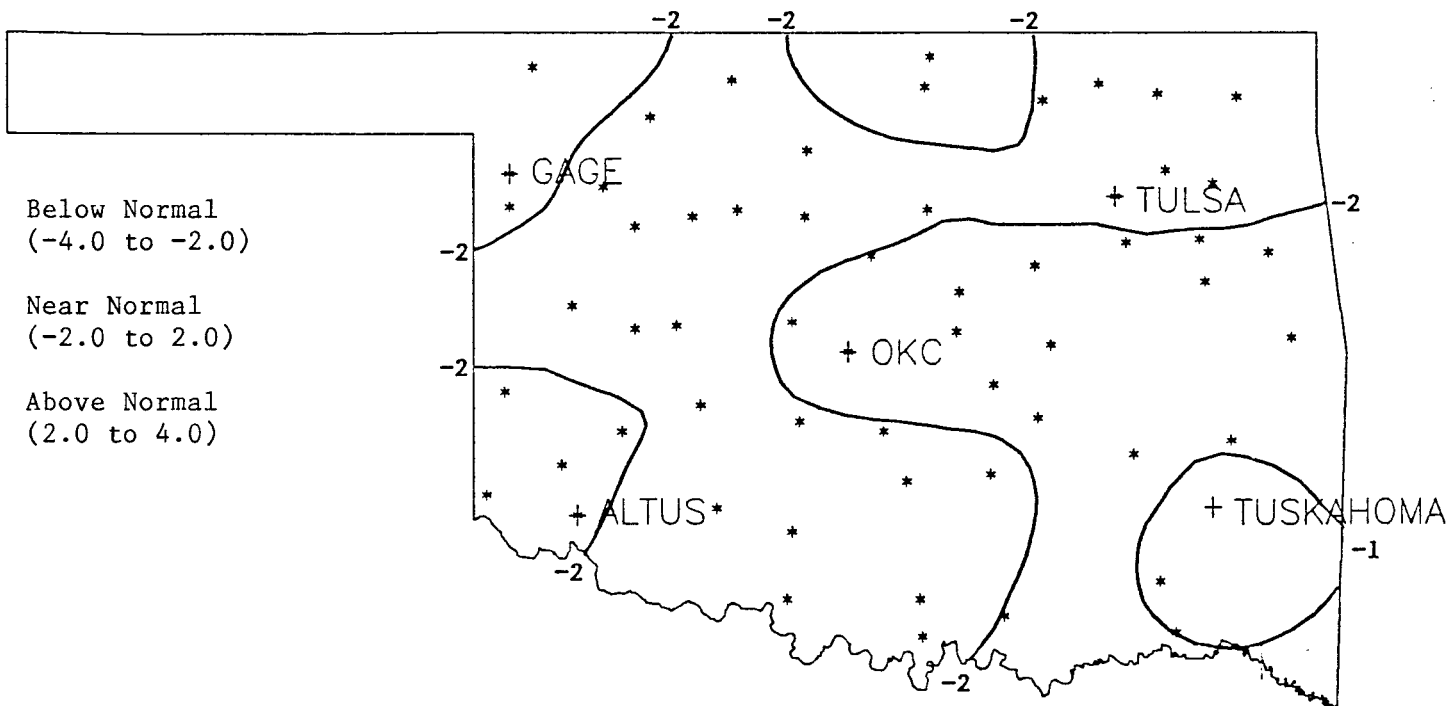
Above Normal
(2.0 to 4.0)

Much Above Normal
(4.0 to 6.0)

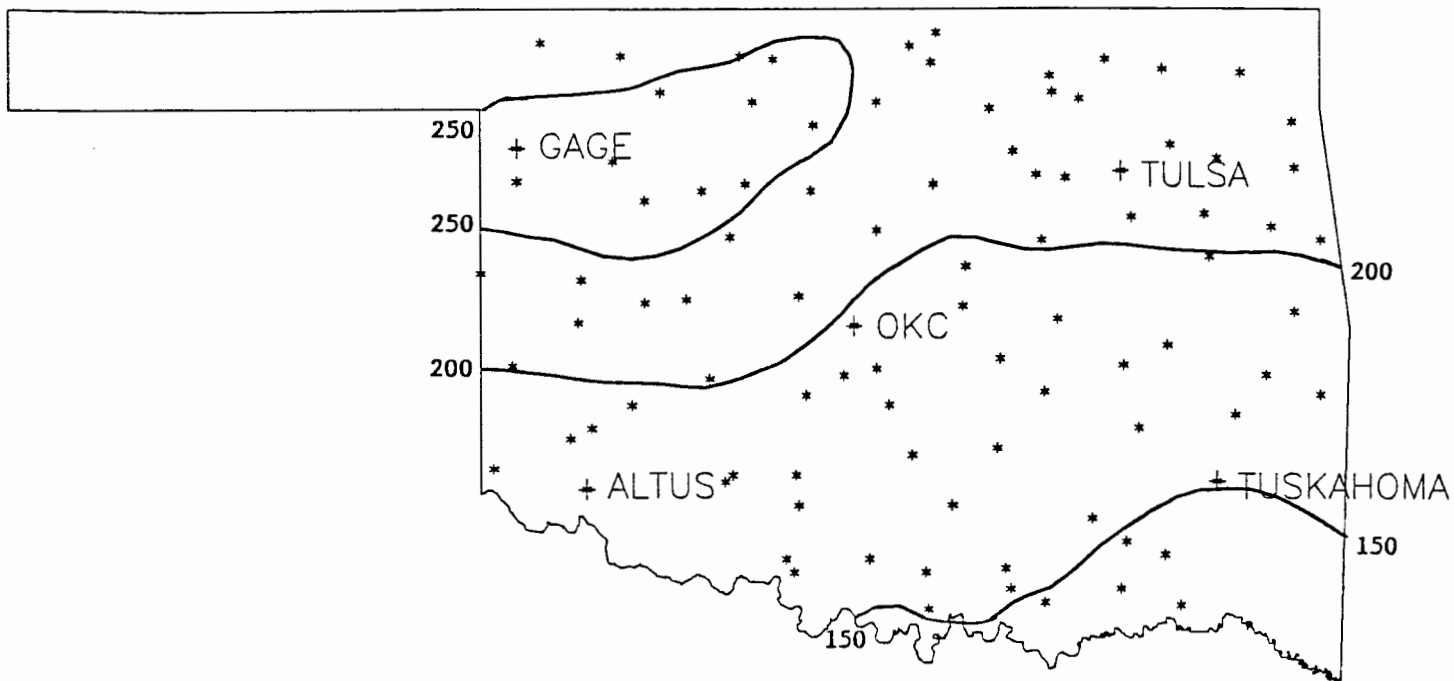
APRIL 1990 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



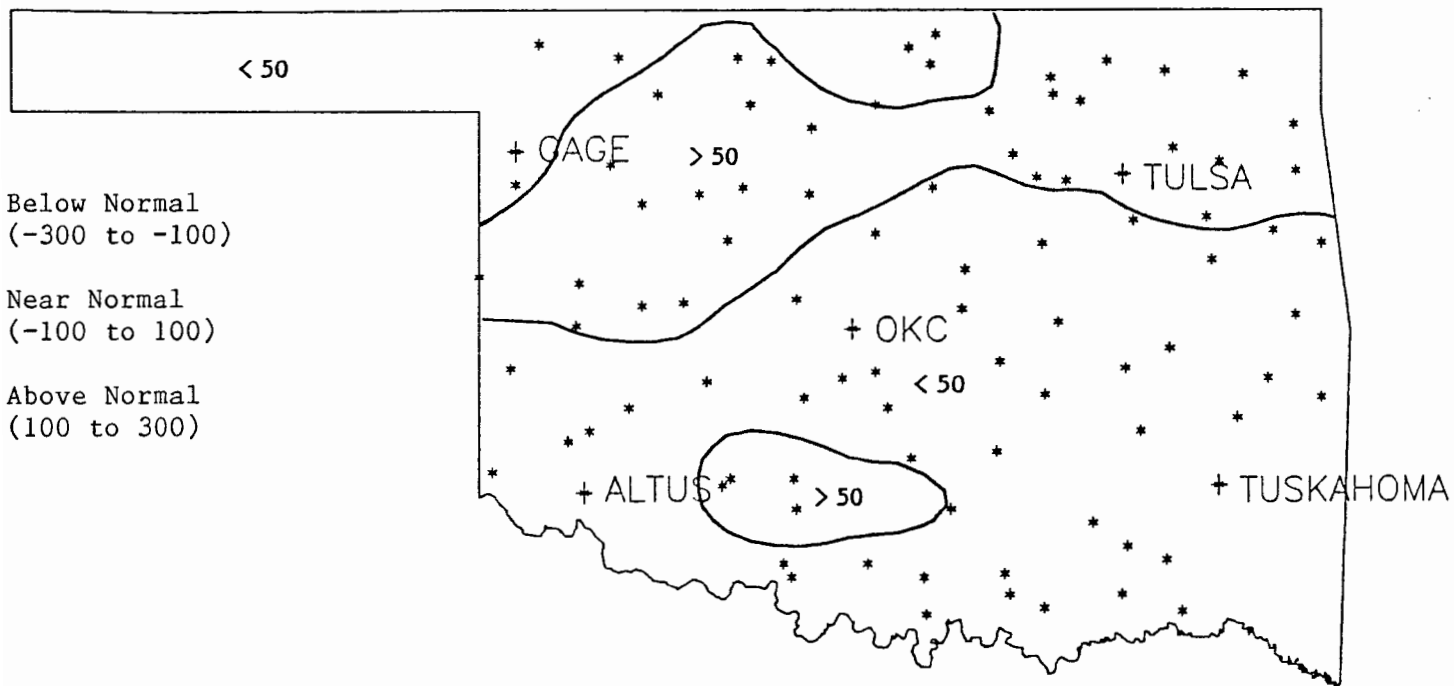
APRIL 1990 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



APRIL 1990 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)

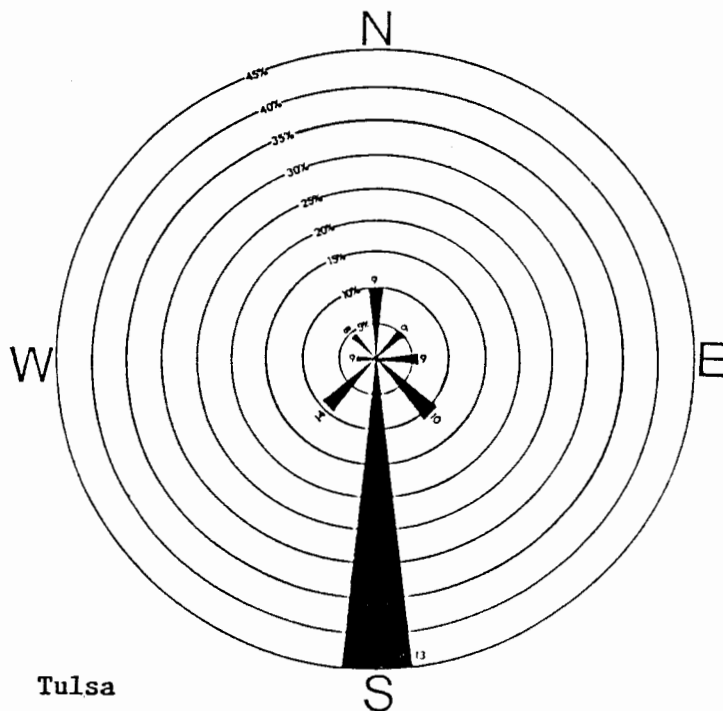
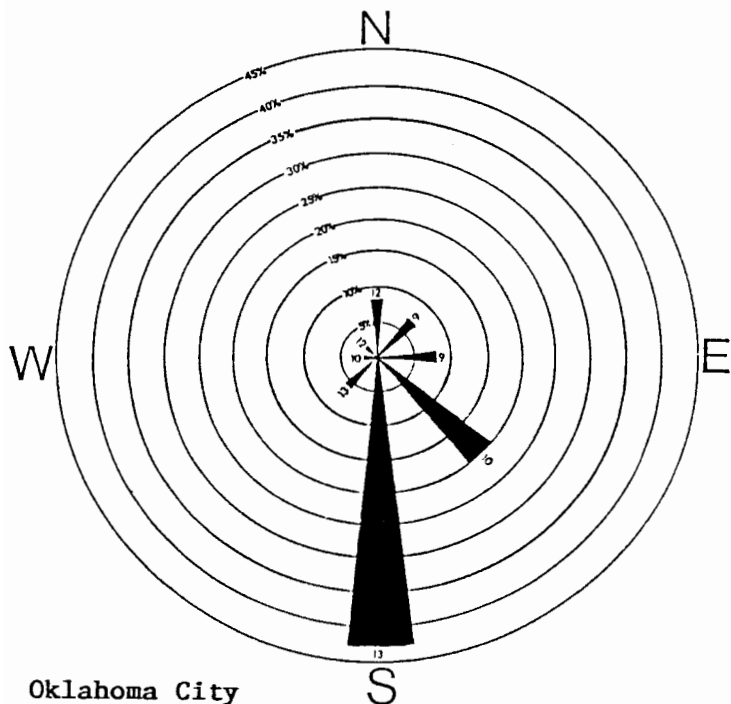


APRIL 1990 HEATING DEGREE DAYS



APRIL 1990 DEVIATION FROM NORMAL HEATING DEGREE DAYS

June 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.



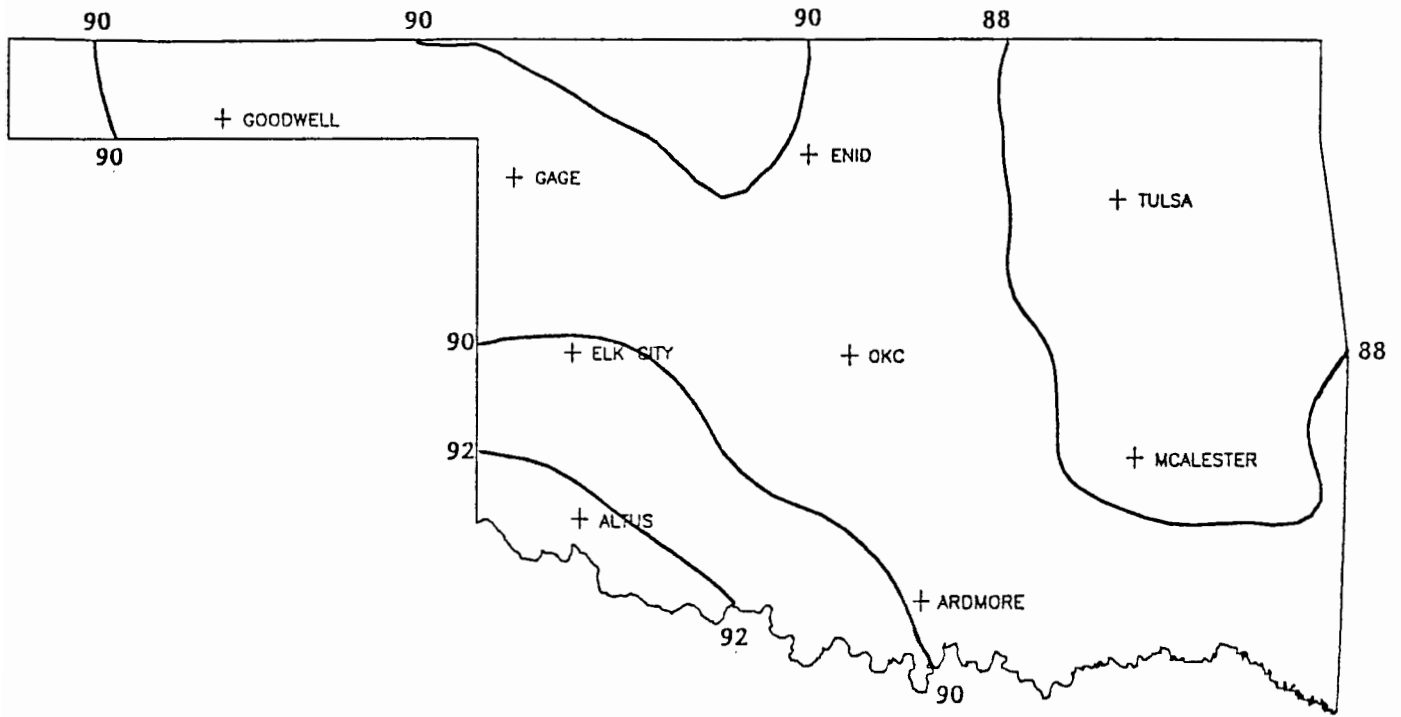
JUNE 1990 SUNRISE AND SUNSET

Oklahoma City

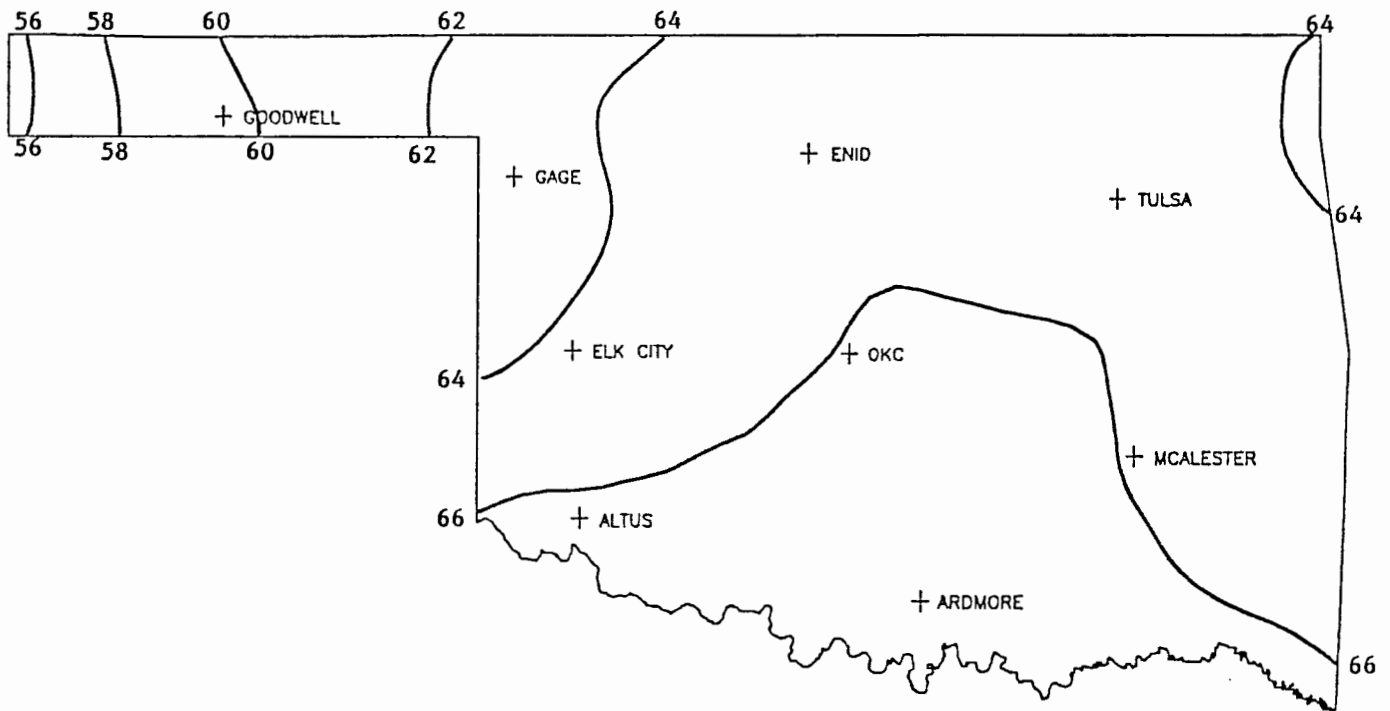
| DATE | SUNRISE | SUNSET | DAYLIGHT |
|--------|---------|-----------|----------|
| 900601 | 6:19AM | 8:37PM LT | 14:19 |
| 900602 | 6:18AM | 8:38PM LT | 14:19 |
| 900603 | 6:18AM | 8:38PM LT | 14:20 |
| 900604 | 6:18AM | 8:39PM LT | 14:21 |
| 900605 | 6:18AM | 8:40PM LT | 14:22 |
| 900606 | 6:18AM | 8:40PM LT | 14:23 |
| 900607 | 6:17AM | 8:41PM LT | 14:23 |
| 900608 | 6:17AM | 8:41PM LT | 14:24 |
| 900609 | 6:17AM | 8:42PM LT | 14:24 |
| 900610 | 6:17AM | 8:42PM LT | 14:25 |
| 900611 | 6:17AM | 8:43PM LT | 14:26 |
| 900612 | 6:17AM | 8:43PM LT | 14:26 |
| 900613 | 6:17AM | 8:43PM LT | 14:26 |
| 900614 | 6:17AM | 8:44PM LT | 14:27 |
| 900615 | 6:17AM | 8:44PM LT | 14:27 |
| 900616 | 6:17AM | 8:45PM LT | 14:28 |
| 900617 | 6:17AM | 8:45PM LT | 14:28 |
| 900618 | 6:17AM | 8:45PM LT | 14:28 |
| 900619 | 6:17AM | 8:46PM LT | 14:28 |
| 900620 | 6:18AM | 8:46PM LT | 14:28 |
| 900621 | 6:18AM | 8:46PM LT | 14:28 |
| 900622 | 6:18AM | 8:46PM LT | 14:28 |
| 900623 | 6:18AM | 8:46PM LT | 14:28 |
| 900624 | 6:18AM | 8:47PM LT | 14:28 |
| 900625 | 6:19AM | 8:47PM LT | 14:28 |
| 900626 | 6:19AM | 8:47PM LT | 14:28 |
| 900627 | 6:19AM | 8:47PM LT | 14:28 |
| 900628 | 6:20AM | 8:47PM LT | 14:28 |
| 900629 | 6:20AM | 8:47PM LT | 14:27 |
| 900630 | 6:20AM | 8:47PM LT | 14:27 |

Tulsa

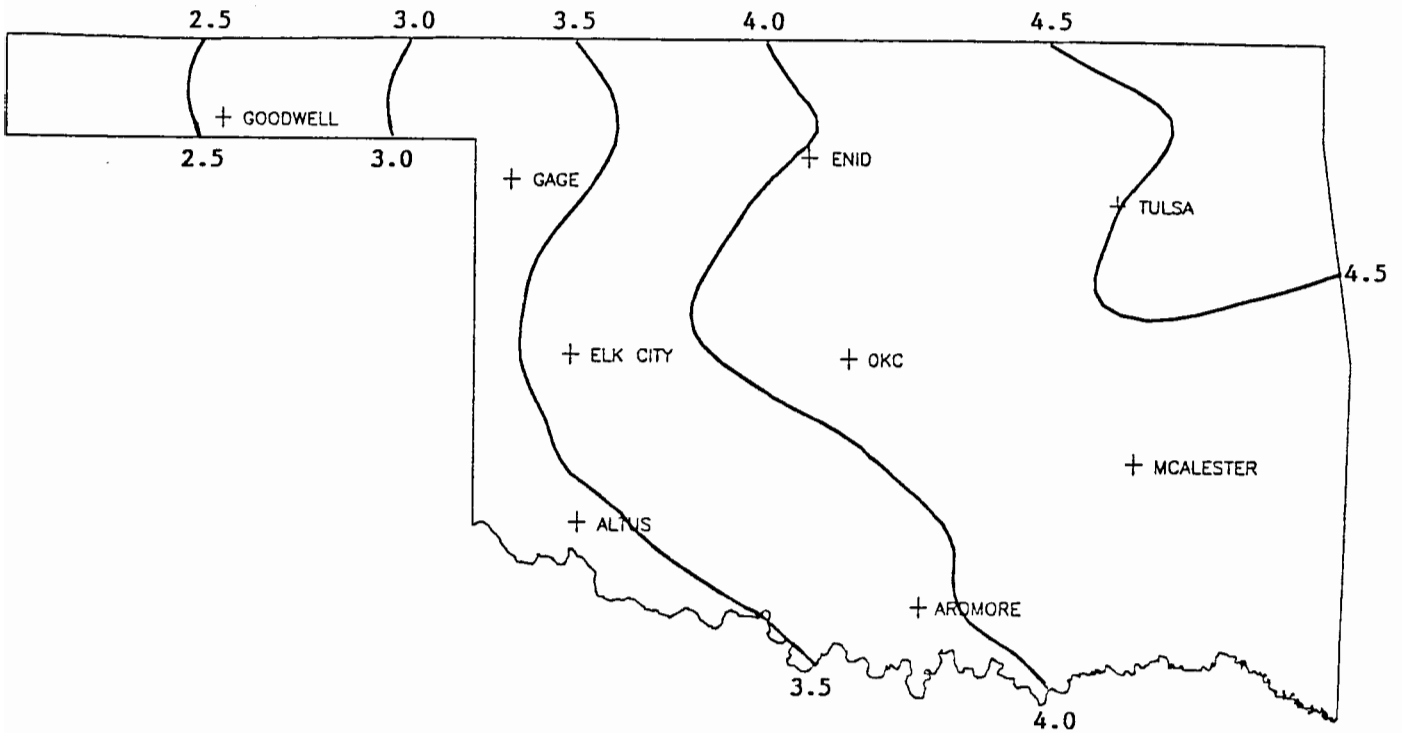
| DATE | SUNRISE | SUNSET | DAYLIGHT |
|--------|---------|-----------|----------|
| 900601 | 6:10AM | 8:32PM LT | 14:23 |
| 900602 | 6:10AM | 8:33PM LT | 14:23 |
| 900603 | 6: 9AM | 8:34PM LT | 14:24 |
| 900604 | 6: 9AM | 8:34PM LT | 14:25 |
| 900605 | 6: 9AM | 8:35PM LT | 14:26 |
| 900606 | 6: 9AM | 8:35PM LT | 14:27 |
| 900607 | 6: 8AM | 8:36PM LT | 14:27 |
| 900608 | 6: 8AM | 8:36PM LT | 14:28 |
| 900609 | 6: 8AM | 8:37PM LT | 14:29 |
| 900610 | 6: 8AM | 8:37PM LT | 14:29 |
| 900611 | 6: 8AM | 8:38PM LT | 14:30 |
| 900612 | 6: 8AM | 8:38PM LT | 14:30 |
| 900613 | 6: 8AM | 8:39PM LT | 14:31 |
| 900614 | 6: 8AM | 8:39PM LT | 14:31 |
| 900615 | 6: 8AM | 8:40PM LT | 14:31 |
| 900616 | 6: 8AM | 8:40PM LT | 14:32 |
| 900617 | 6: 8AM | 8:40PM LT | 14:32 |
| 900618 | 6: 8AM | 8:41PM LT | 14:32 |
| 900619 | 6: 8AM | 8:41PM LT | 14:32 |
| 900620 | 6: 9AM | 8:41PM LT | 14:33 |
| 900621 | 6: 9AM | 8:41PM LT | 14:33 |
| 900622 | 6: 9AM | 8:42PM LT | 14:33 |
| 900623 | 6: 9AM | 8:42PM LT | 14:33 |
| 900624 | 6: 9AM | 8:42PM LT | 14:33 |
| 900625 | 6:10AM | 8:42PM LT | 14:32 |
| 900626 | 6:10AM | 8:42PM LT | 14:32 |
| 900627 | 6:10AM | 8:42PM LT | 14:32 |
| 900628 | 6:11AM | 8:43PM LT | 14:32 |
| 900629 | 6:11AM | 8:43PM LT | 14:32 |
| 900630 | 6:11AM | 8:43PM LT | 14:31 |



30-YEAR MEAN JUNE DAILY MAXIMUM TEMPERATURE



30-YEAR MEAN JUNE DAILY MINIMUM TEMPERATURE



30-YEAR MEAN JUNE PRECIPITATION

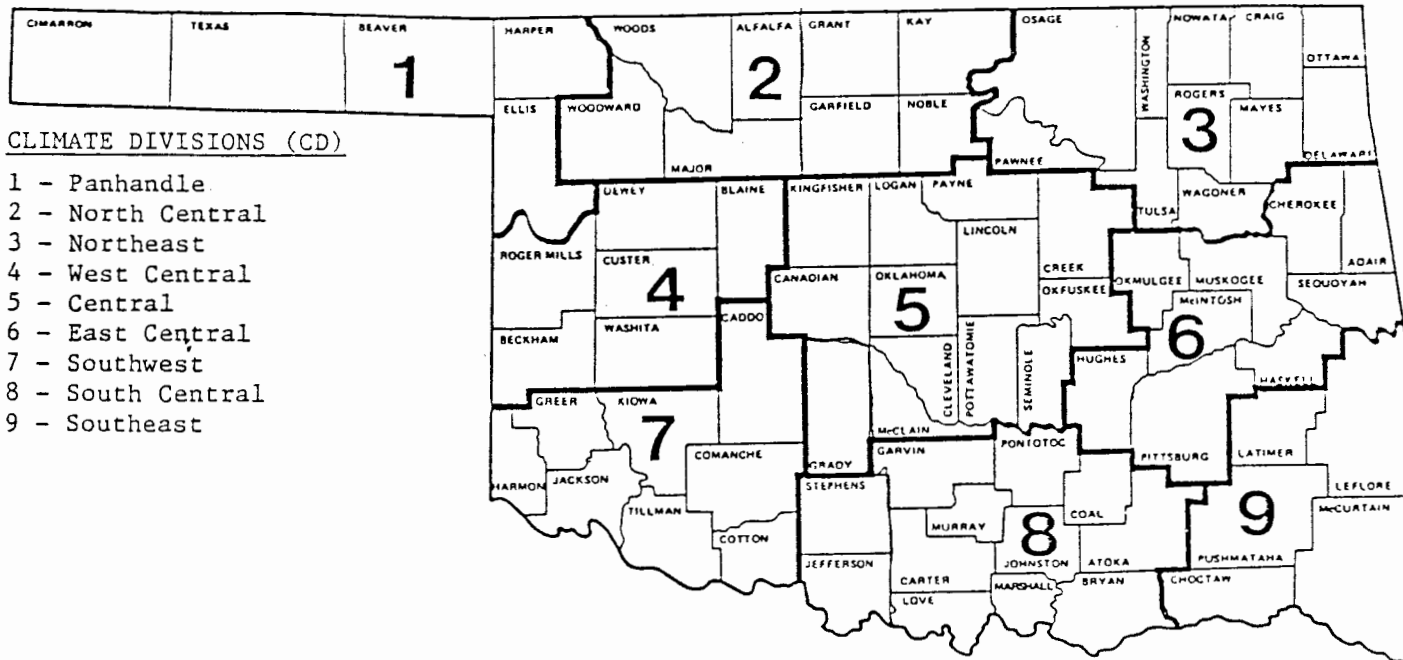
30- and 90-DAY NATIONAL WEATHER SERVICE OUTLOOK

30-DAY OUTLOOK (MAY)

Precipitation - Above Normal Statewide
Temperature - Below Normal Statewide

90-DAY OUTLOOK (MAY-JULY)

Precipitation - Near Normal in Western One-Half of Panhandle
Above Normal Elsewhere
Temperature - Below 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.

EXPLANATION OF MAPS

To give a Statewide perspective, a series of maps is produced each month from the information contained in the station tables. Each map is calculated using between 50 and 200 observations. Only stations with complete monthly records are used. Each observation is put into one of three categories and assigned a plus (+), minus (-), or a dot (.). The minus is the lowest numeric category, the dot is the middle and the plus the highest numeric category. If a map location has no report, a value is estimated. Each map is accompanied by its own legend. The categories will vary from month to month throughout the year. The categories for the deviations from normal maps will always remain constant. This is to facilitate comparisons between months and across years.

CLIMATE CALENDAR

The data on this calendar are for Oklahoma City. Normal values are calculated for the period 1948-1986. Extremes are found for the period of record (1924-present).

Table with 7 columns: Day (1-30), Normal (max, min, pcpn, HDD, CDD), Actual, Greatest pcpn, and Actual. Rows 1-30 contain daily climate data for June 1990, including values for temperature, precipitation, and heating/cooling degree days.

JUNE AVERAGES

Temperature : 76.8
Precipitation : 4.15
Heating Degree Days: 1
Cooling Degree Days: 363

Table for June 29 and 30, showing Normal and Actual values for temperature, precipitation, and heating/cooling degree days.