# OKLAHOMA MONTHLY CLIMATE SUMMARY
# JUNE 2002

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*Oklahoma Climatological Survey*

# MONTHLY SUMMARY FOR JUNE 2002

***June 2002***

*Statewide average temperature = 77.3º F*
*Statewide average rainfall = 3.80 inches*

***June Normals***

*Statewide average temperature = 77.7º F*
*Statewide average rainfall = 4.24 inches*

At times, Oklahoma's climatic periods can be remarkable in their lack of distinction. June 2002 was just such a period. And, while the month will be remembered for being neither cold nor warm, dry nor wet, the parts that make up its sum merit attention.

The statwide-averaged precipitation total of 3.80 inches ranks the month as the 56th wettest June since record-keeping began in 1892. Coincidentally, that precipitation total also ranks as the 56th driest June on record, evident by the scant 0.44-inch less than normal precipitation deficit. Accordingly, the 17.59-inch January-June statewide-averaged precipitation amount fell 1.39 inches short of normal, mirroring June's ranking as the 56th wettest and driest such period in the previous 111 years. June's statewide-averaged temperature of 77.3 degrees was 0.4 degrees above normal. As with the month's precipitation ranking, June ranked near the middle of the pack in average temperature, tied with six other months as the 44th warmest on record. That brought the year-to-date January-June statewide-averaged temperature to 55.4 degrees, 0.6 degrees less than normal, contributing to the 37th coolest January-June period on record.

The highest daily maximum temperature for the month was 103 degrees, reported at Guymon and Goodwell (both in Texas County) on the 11th, and Buffalo (Harper) and Goodwell on the 12th. The month started out warm in the northwestern portions of the state, with widespread triple-digit temperatures being reported by a majority of the stations. That remained the case for the duration of the month, allowing the panhandle climate division to finish with a mean temperature of 78.3 degrees, exceeding the established normal by 3.9 degrees, becoming the 12th warmest June on record for the area. The lowest daily minimum temperature for the month, 44 degrees, was reported on June 1st at the Wichita Mountain Wildlife Refuge (Comanche) and again at Okmulgee (Okmulgee) on the 5th.

The remarkably normal statewide-averaged precipitation total was actually not-so-normal for several portions of the state. The majority of Oklahoma received less-than-normal rainfall amounts for June, with the exception of the panhandle and north-central areas. Buoyed by several large rainfall amounts, the north central climate division finished the month at 130 percent of normal average rainfall with 5.11 inches, a 1.18-inch surplus. Ft. Supply (Woodward) had the greatest daily precipitation total during June for not only the north central climate division, but for the entire state as well, receiving 5.71 inches on the 13th. Blackwell, Braman (both in Kay County), and Ralston (Pawnee) had rainfall amounts on the 13th of 3.56, 3.48, and 3.30 inches, respectively. Cordell (Washita) reported 4.10 inches of precipitation on the 9th, and Lawton (Comanche) reported 4.14 inches on the 5th. The panhandle climate division finished the month at 98 percent of normal average rainfall, marking only the 2nd month in the last

**(Continued on page 3.)**

13 (the other being January 2002) in which they received near- or above-normal average rainfall. Since June 2001, the panhandle region has been in the grips of a devastating drought, receiving only 13.37 inches of precipitation, 56 percent of the normal June-June total.

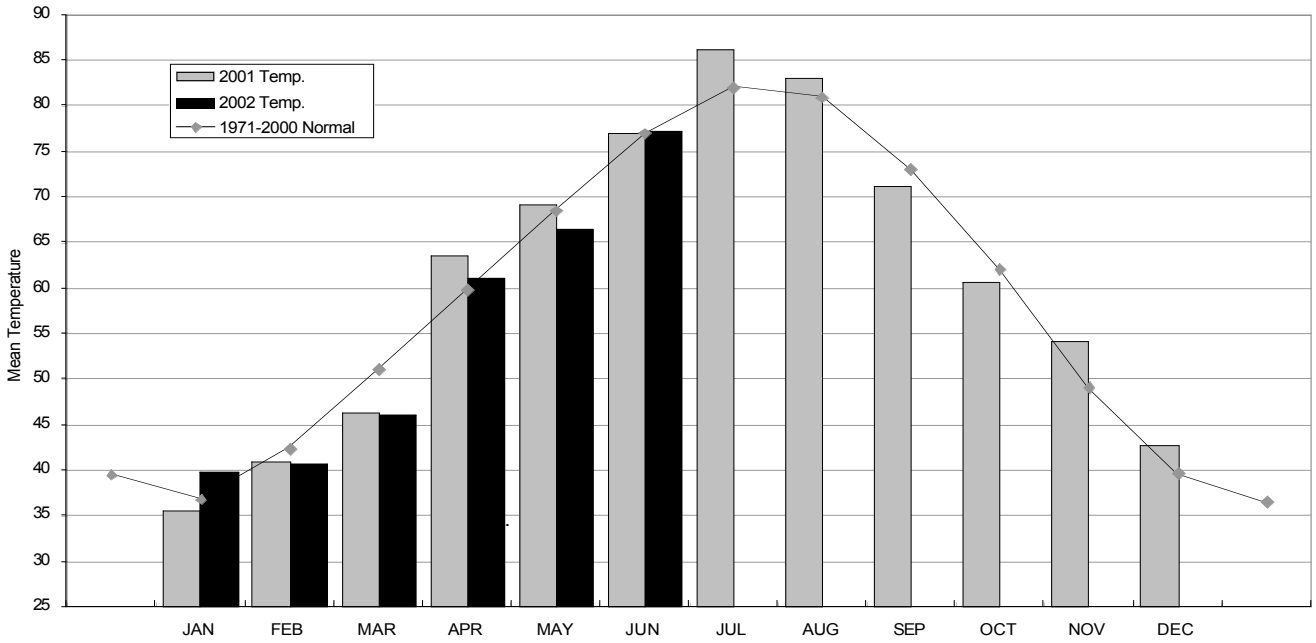
Severe weather reports were sparse for the month. No tornadoes were reported, falling short of the normal June total of 8.7. Despite the quiet month, however, there were various reports of the usual severe weather culprits: high winds, hail, and flooding. The first bout of turbulent weather occurred on the 4th associated with a squall line that formed along a frontal boundary. Flash flooding occurred in Blackwell and Lawton associated with heavy rainfall as the squall line traversed the state. Wind damage was reported in Pawhuska (Osage) and Felt (Cimarron), where 80 mph wind gusts were reported.

Another round of severe weather occurred on the 8th, with 84 mph wind gusts and 1.25 inch hail recorded in Ft. Cobb (Caddo). Several days later on the 12th, more thunderstorms associated with a frontal passage struck a large portion of the state. Extensive street flooding was reported in Ponca City (Kay), and 1.75 inch hail occurred in Blackwell, Ponca City, north of Camp Houston (Woods), southeast of Ft. Supply, and north of Gage (Ellis). Thirteen Oklahoma Mesonet sites reported wind gusts over 60 mph, and Alva (Woods) had a thunderstorm-associated gust of 73 mph. Wind damage was reported in the northern portions of the state, with the most common occurrence being tree or minor structural damage.

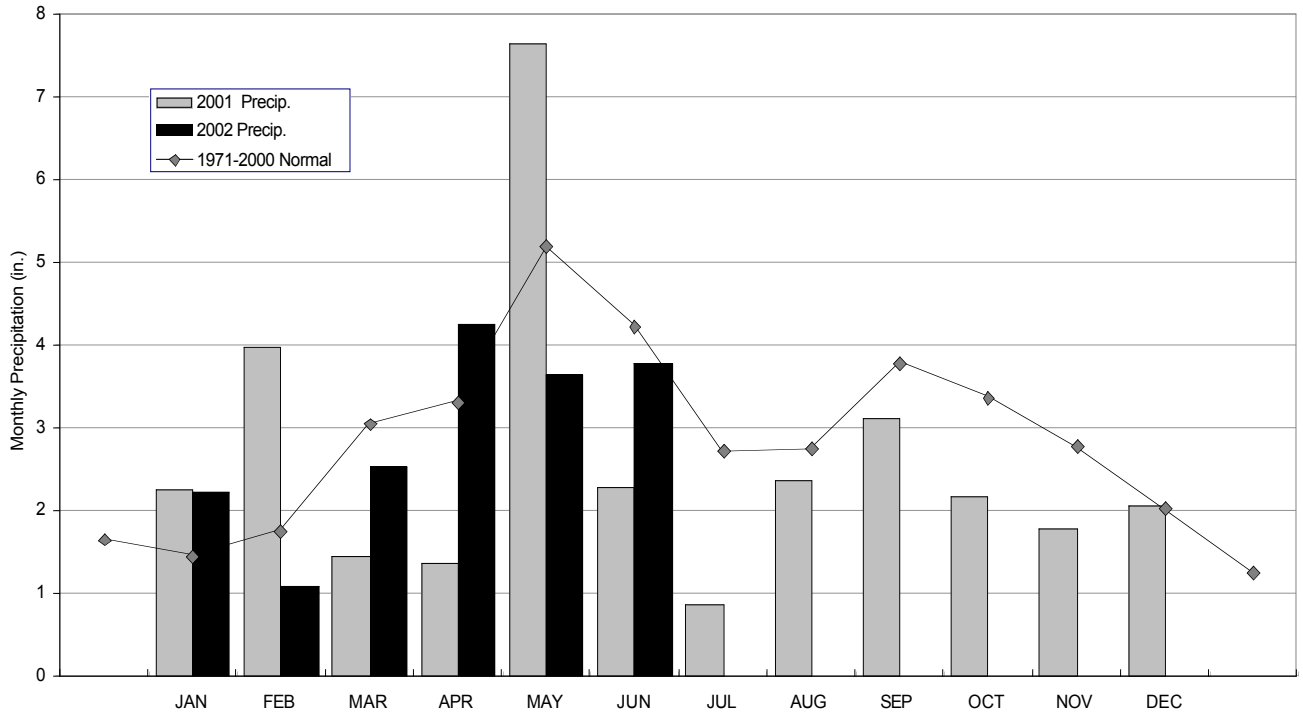
One more significant round of severe weather came on the 15th associated with another frontal passage. Damaging winds estimated at 70 to 80 mph were reported in Woods and Alfalfa counties, and a roof was blown off of a restaurant in Grandfield (Tillman). Hail up to 1.75 inches was reported at Forgan (Beaver).

Derek S. Arndt and Gary D. McManus

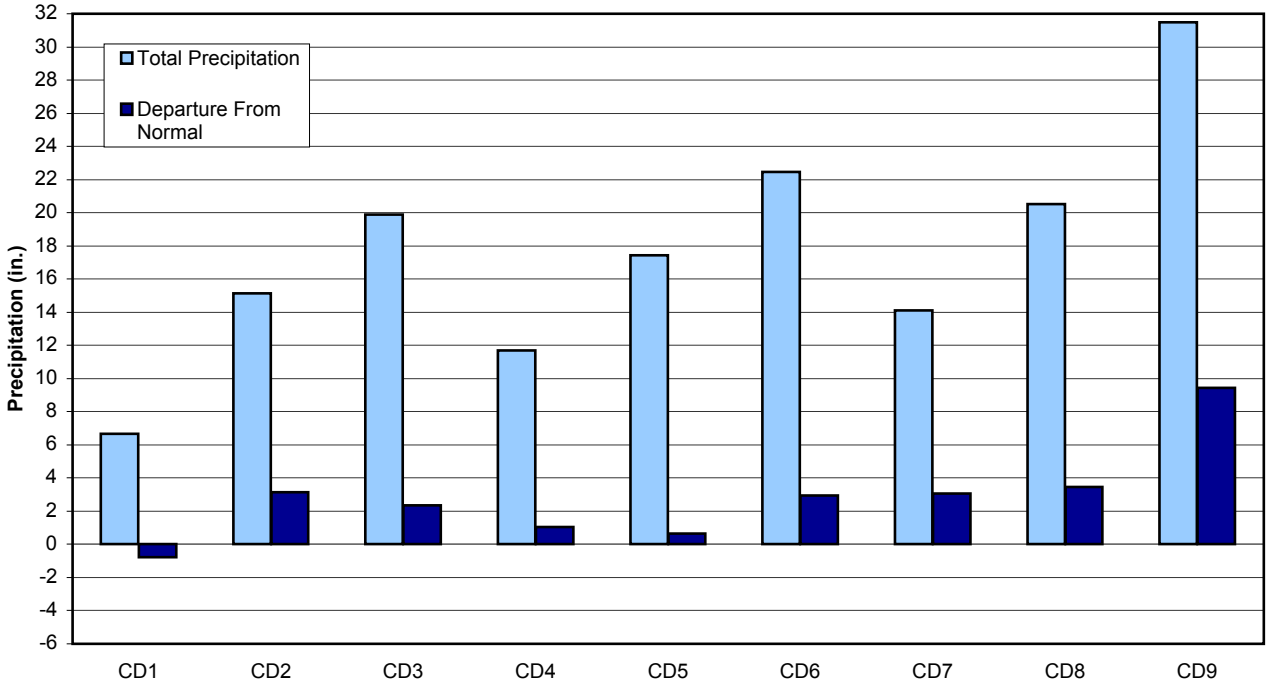
## 2001 AND 2002 STATEWIDE TEMPERATURES - MONTHLY AVERAGES



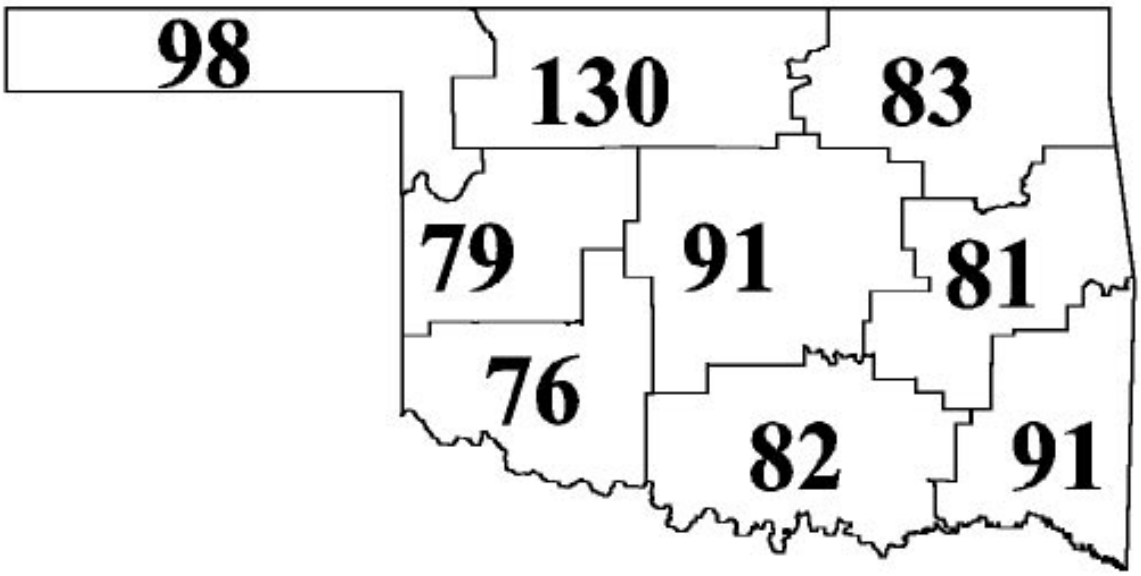

## 2001 AND 2002 STATEWIDE PRECIPITATION - MONTHLY TOTALS



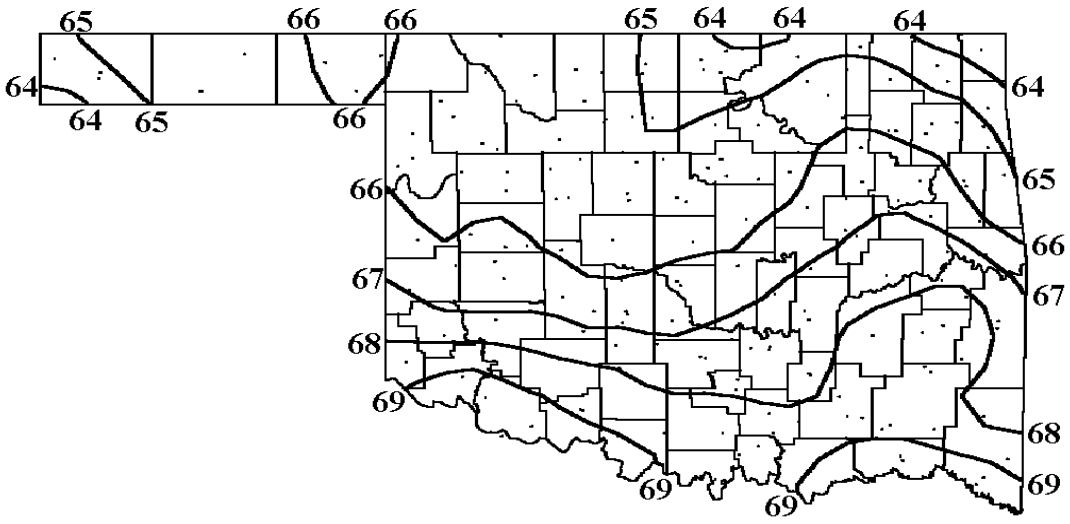
## CLIMATE DIVISION AVERAGED PRECIPITATION - JANUARY THROUGH JUNE 2002



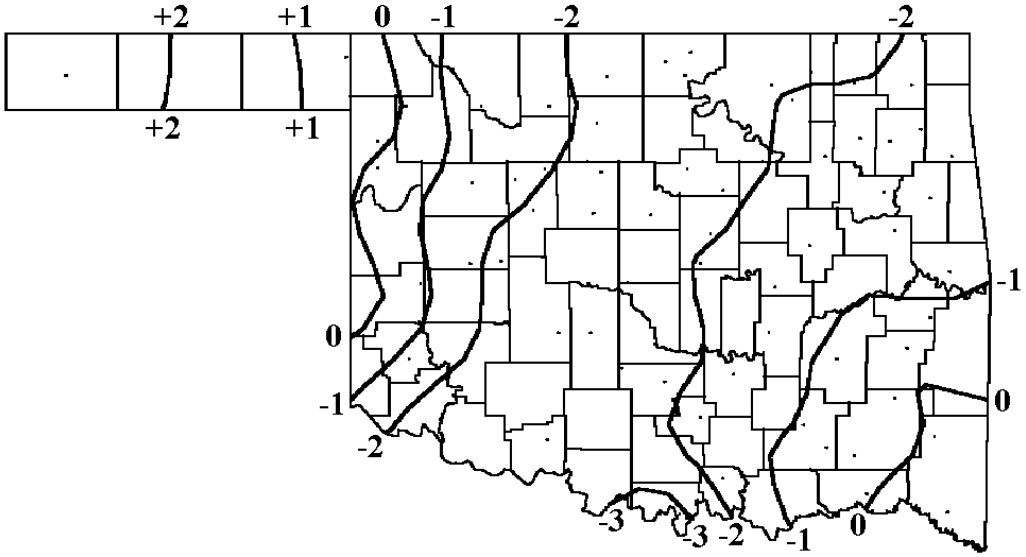

## CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION - JUNE 2002



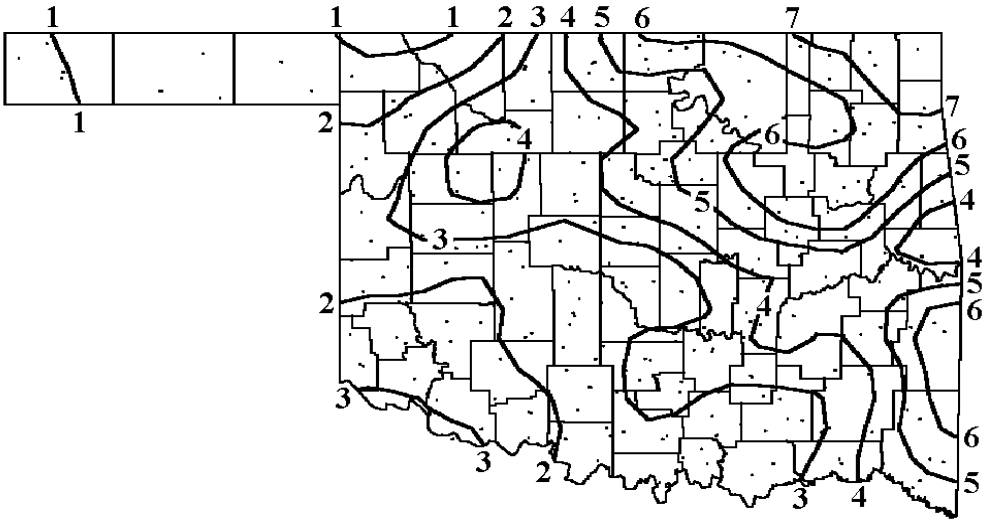
## JUNE 2002 AVERAGE MONTHLY TEMPERATURE (ºF)



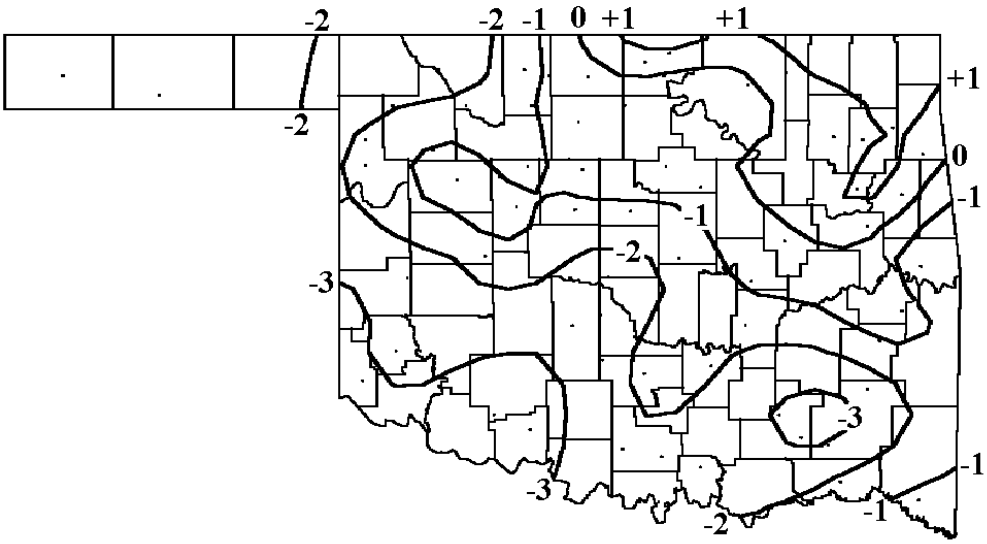

## JUNE 2002 DEPARTURE FROM NORMAL TEMPERATURE (ºF)



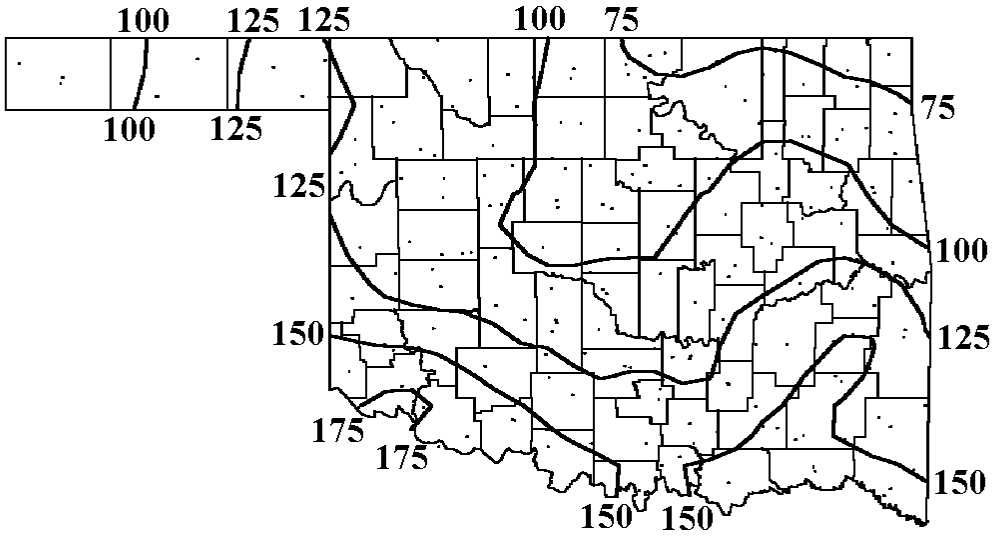
## JUNE 2002 PRECIPITATION (INCHES)



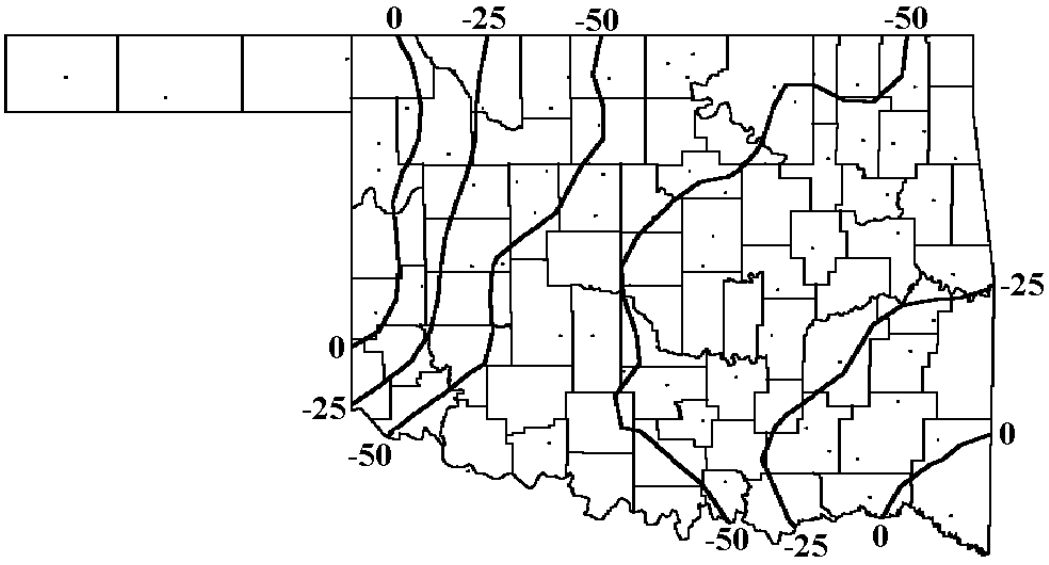

## JUNE 2002 DEPARTURE FROM NORMAL PRECIPITATION (INCHES)



## JUNE 2002 ACCUMULATED COOLING DEGREE DAYS (ºF)




## JUNE 2002 DEPARTURE FROM NORMAL COOLING DEGREE DAYS (ºF)



## JUNE 2002 SUMMARY FOR PANHANDLE CLIMATE DIVISION (CD1)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARNETT | 332 | 1 | 75.8 | 29 | 2.2 | 96 | 13 | 50 | 7 | 6 | -8 | 318 | 47 | 4.520 | 30 | 1.02 | 1.67 | 27 |
| BEAVER | 593 | 1 | 76.4 | 28 | ***** | 98 | 24 | 51 | 6 | 5 | ****** | 326 | ****** | 2.530 | 30 | -0.71 | 1.65 | 16 |
| BOISE CITY | 908 | 1 | 76.7 | 30 | 4.1 | 100 | 19 | 51 | 5 | 5 | -12 | 357 | 113 | 1.311 | 30 | -1.73 | 0.89 | 4 |
| FARGO | 3070 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.941 | 30 | ***** | 1.35 | 16 |
| GAGE | 3407 | 1 | 78.1 | 30 | 2.8 | 99 | 12 | 48 | 6 | 3 | -8 | 396 | 79 | 4.684 | 30 | 1.79 | 3.20 | 13 |
| GATE | 3489 | 1 | 79.1 | 30 | 3.1 | 100 | 13 | 53 | 6 | 4 | -12 | 425 | 82 | 3.490 | 30 | 0.56 | 1.28 | 16 |
| GOODWELL | 3628 | 1 | 79.8 | 30 | 5.3 | 103 | 12 | 55 | 6 | 1 | -11 | 444 | 148 | 1.370 | 30 | -1.09 | 0.65 | 5 |
| GUYMON | 3835 | 1 | 79.8 | 28 | ***** | 103 | 11 | 51 | 4 | 2 | ****** | 418 | ****** | 1.110 | 28 | ***** | 0.40 | 5 |
| HOOKER | 4298 | 1 | 79.9 | 30 | 4.7 | 102 | 2 | 54 | 6 | 1 | -9 | 447 | 133 | 1.583 | 30 | -0.91 | 0.76 | 4 |
| KENTON | 4766 | 1 | 79.2 | 29 | 6.0 | 102 | 18 | 53 | 16 | 0 | -11 | 411 | 154 | 2.701 | 29 | ***** | 1.08 | 5 |
| LAVERNE | 5045 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.540 | 30 | ***** | 1.57 | 13 |
| RANGE | 7412 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.530 | 30 | ***** | 0.89 | 6 |
| REGNIER | 7534 | 1 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.311 | 30 | ***** | 0.60 | 14 |
| TURPIN | 9017 | 1 | 79.3 | 24 | ***** | 100 | 12 | 56 | 6 | 2 | ****** | 344 | ****** | 1.780 | 24 | ***** | 1.02 | 17 |

## JUNE 2002 SUMMARY FOR NORTH CENTRAL CLIMATE DIVISION (CD2)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALVA | 193 | 2 | 78.3 | 26 | ***** | 100 | 13 | 53 | 6 | 4 | ****** | 350 | ****** | 4.530 | 30 | 1.26 | 2.35 | 13 |
| BILLINGS | 755 | 2 | 76.8 | 29 | -0.1 | 94 | 13 | 50 | 6 | 5 | -1 | 349 | -13 | 4.252 | 30 | -0.10 | 1.40 | 16 |
| BLACKWELL 2E | 818 | 2 | 77.6 | 30 | 1.2 | 94 | 28 | 56 | 7 | 2 | -4 | 379 | 34 | 8.013 | 30 | 3.62 | 3.56 | 13 |
| BRAMAN | 1075 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 10.551 | 30 | ***** | 3.60 | 5 |
| CEDARDALE | 1620 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.810 | 30 | ***** | 1.38 | 13 |
| CHEROKEE | 1724 | 2 | 79.7 | 23 | ***** | 98 | 28 | 53 | 6 | 4 | ****** | 343 | ****** | 6.450 | 30 | 2.46 | 1.95 | 14 |
| ENID | 2912 | 2 | 79.4 | 30 | 2.3 | 98 | 27 | 55 | 6 | 2 | -1 | 435 | 71 | 4.482 | 30 | 0.09 | 1.77 | 5 |
| FT SUPPLY | 3304 | 2 | 78.0 | 26 | ***** | 99 | 13 | 46 | 6 | 5 | ****** | 342 | ****** | 7.210 | 26 | ***** | 5.71 | 13 |
| FREEDOM | 3358 | 2 | 77.8 | 28 | ***** | 98 | 12 | 50 | 5 | 3 | ****** | 361 | ****** | 3.060 | 29 | ***** | 1.29 | 13 |
| GREAT SALT P | 3740 | 2 | 78.9 | 28 | ***** | 97 | 29 | 54 | 5 | 0 | ****** | 388 | ****** | 3.610 | 30 | -0.20 | 1.95 | 4 |
| HARDY | 3909 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.570 | 30 | ***** | 2.17 | 13 |
| HELENA | 4019 | 2 | 77.6 | 30 | 0.9 | 96 | 29 | 53 | 6 | 5 | -1 | 382 | 27 | 5.080 | 30 | 1.22 | 2.02 | 14 |
| JEFFERSON | 4573 | 2 | 77.1 | 30 | -0.4 | 96 | 28 | 50 | 6 | 6 | 3 | 368 | -10 | 4.411 | 30 | 0.10 | 2.15 | 5 |
| LAHOMA | 4950 | 2 | 77.7 | 30 | ***** | 99 | 13 | 53 | 6 | 5 | ****** | 385 | ****** | 5.600 | 30 | ***** | 1.95 | 5 |
| LAMONT | 5013 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 6.110 | 30 | ***** | 1.69 | 5 |
| MEDFORD | 5768 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.102 | 30 | ***** | 1.59 | 5 |
| MORRISON | 6065 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.470 | 30 | ***** | 1.61 | 14 |
| MUTUAL | 6139 | 2 | 77.3 | 30 | 2.1 | 98 | 13 | 50 | 6 | 7 | -4 | 376 | 60 | 2.030 | 30 | -1.30 | 1.04 | 16 |
| NEWKIRK | 6278 | 2 | 75.8 | 30 | 0.4 | 92 | 28 | 52 | 6 | 5 | -2 | 330 | 13 | 6.600 | 30 | 1.55 | 2.18 | 13 |
| ORIENTA | 6751 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 5.471 | 30 | ***** | 2.82 | 13 |
| PONCA CITY | 7201 | 2 | 77.3 | 30 | -0.2 | 93 | 11 | 53 | 6 | 2 | -1 | 372 | -4 | 4.055 | 30 | -0.44 | 2.58 | 13 |
| RED ROCK | 7505 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 6.170 | 30 | ***** | 2.08 | 4 |
| WAYNOKA | 9404 | 2 | 78.8 | 30 | 1.2 | 99 | 12 | 52 | 5 | 5 | -1 | 420 | 36 | 4.230 | 30 | 1.01 | 1.83 | 12 |
| WOODWARD | 9760 | 2 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.770 | 30 | ***** | 1.78 | 13 |

## JUNE 2002 SUMMARY FOR NORTHEAST CLIMATE DIVISION (CD3)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BARNSDALL | 535 | 3 | 76.9 | 30 | 0.8 | 92 | 27 | 54 | 6 | 0 | -2 | 356 | 23 | 3.420 | 30 | -1.63 | 2.12 | 13 |
| BARTLESVILLE | 548 | 3 | 77.4 | 30 | 0.2 | 94 | 28 | 55 | 6 | 0 | -1 | 371 | 6 | 4.151 | 30 | -0.35 | 1.83 | 13 |
| BIXBY | 782 | 3 | 77.6 | 29 | 1.5 | 93 | 28 | 58 | 14 | 0 | -2 | 364 | 28 | 4.291 | 29 | ***** | 2.50 | 12 |
| BURBANK | 1256 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.951 | 30 | ***** | 2.74 | 12 |
| CHELSEA | 1717 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.180 | 30 | ***** | 1.98 | 13 |
| CLAREMORE | 1828 | 3 | 76.3 | 30 | 0.7 | 93 | 29 | 55 | 15 | 0 | -3 | 340 | 19 | 4.852 | 30 | -0.01 | 2.61 | 13 |
| FORAKER | 3250 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.170 | 30 | ***** | 1.78 | 5 |
| HOLLOW | 4258 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.410 | 30 | ***** | 0.97 | 12 |
| HOMINY | 4289 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.930 | 30 | ***** | 2.00 | 13 |
| KANSAS | 4672 | 3 | 75.4 | 30 | 0.7 | 90 | 29 | 56 | 6 | 0 | -3 | 312 | 19 | 4.170 | 30 | -1.05 | 1.40 | 12 |
| LENAPAH | 5118 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.400 | 30 | ***** | 1.11 | 13 |
| MANNFORD | 5522 | 3 | 76.2 | 29 | -0.2 | 91 | 28 | 56 | 7 | 0 | -3 | 326 | -18 | 5.740 | 29 | ***** | 3.18 | 13 |
| MARAMEC | 5540 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.470 | 30 | ***** | 1.45 | 13 |
| MIAMI | 5855 | 3 | 75.6 | 25 | ***** | 91 | 25 | 57 | 5 | 1 | ****** | 265 | ****** | 2.600 | 25 | ***** | 1.00 | 12 |
| NOWATA | 6485 | 3 | 76.2 | 28 | ***** | 91 | 28 | 46 | 5 | 1 | ****** | 315 | ****** | 3.460 | 30 | -1.25 | 1.45 | 13 |
| PAWHUSKA | 6935 | 3 | 76.3 | 30 | 0.0 | 92 | 27 | 53 | 6 | 0 | -3 | 340 | -2 | 5.850 | 30 | 0.65 | 2.94 | 13 |
| PAWNEE | 6940 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.710 | 30 | ***** | 0.98 | 13 |
| PRYOR | 7309 | 3 | 76.3 | 30 | 0.9 | 92 | 29 | 55 | 15 | 0 | -3 | 339 | 25 | 3.471 | 30 | -1.23 | 1.92 | 13 |
| RALSTON | 7390 | 3 | 75.4 | 30 | -0.7 | 92 | 28 | 50 | 6 | 0 | -4 | 311 | -25 | 5.070 | 30 | 0.76 | 3.30 | 13 |
| SPAVINAW | 8380 | 3 | 77.2 | 30 | 0.4 | 90 | 29 | 57 | 15 | 0 | -2 | 367 | 11 | 2.801 | 30 | -1.92 | 1.30 | 13 |
| TULSA | 8992 | 3 | 78.3 | 30 | 0.3 | 93 | 28 | 57 | 6 | 0 | -1 | 399 | 14 | 2.901 | 30 | -1.82 | 1.70 | 12 |
| UPPER SPAV | 9101 | 3 | 74.8 | 30 | ***** | 92 | 3 | 52 | 15 | 0 | ****** | 296 | ****** | 4.510 | 30 | ***** | 1.80 | 13 |
| VINITA | 9203 | 3 | 75.8 | 21 | ***** | 90 | 28 | 57 | 14 | 0 | ****** | 227 | ****** | 3.220 | 21 | ***** | 1.07 | 13 |
| WAGONER | 9247 | 3 | 77.9 | 30 | 1.2 | 92 | 28 | 59 | 16 | 0 | -2 | 388 | 36 | 2.620 | 30 | -2.68 | 1.15 | 13 |
| WANN | 9298 | 3 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.440 | 30 | ***** | 1.64 | 13 |

## JUNE 2002 SUMMARY FOR WEST CENTRAL CLIMATE DIVISION (CD4)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CANTON DAM | 1445 | 4 | 77.9 | 30 | 2.1 | 96 | 29 | 53 | 6 | 4 | -3 | 392 | 60 | 2.020 | 30 | -1.64 | 0.67 | 5 |
| CLINTON | 1909 | 4 | 77.7 | 30 | -0.2 | 95 | 29 | 54 | 6 | 3 | -2 | 383 | -9 | 3.991 | 30 | -0.07 | 1.32 | 5 |
| CORDELL | 2125 | 4 | 77.8 | 30 | ***** | 95 | 30 | 57 | 7 | 1 | ****** | 386 | ****** | 6.341 | 30 | ***** | 4.10 | 9 |
| ELK CITY | 2849 | 4 | 76.8 | 30 | 1.1 | 95 | 29 | 56 | 6 | 0 | -5 | 354 | 29 | 2.890 | 30 | -1.13 | 1.57 | 14 |
| ERICK | 2944 | 4 | 78.1 | 30 | 2.4 | 97 | 29 | 57 | 7 | 0 | -4 | 394 | 68 | 2.501 | 30 | -1.09 | 1.14 | 5 |
| GEARY | 3497 | 4 | 76.3 | 22 | ***** | 93 | 12 | 56 | 5 | 2 | ****** | 249 | ****** | 0.300 | 23 | ***** | 0.30 | 30 |
| MORAVIA | 6035 | 4 | 77.2 | 29 | ***** | 95 | 30 | 54 | 7 | 3 | ****** | 357 | ****** | 1.930 | 29 | ***** | 0.79 | 5 |
| LEEDEY | 5090 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.550 | 30 | ***** | 1.00 | 16 |
| MORAVIA | 6035 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.130 | 30 | ***** | 1.66 | 5 |
| OKEENE | 6629 | 4 | 78.4 | 30 | 0.1 | 97 | 12 | 53 | 7 | 0 | -2 | 401 | 1 | 3.320 | 30 | -0.73 | 1.62 | 13 |
| RETROP | 7565 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.570 | 30 | ***** | 0.85 | 16 |
| REYDON | 7579 | 4 | 76.5 | 28 | ***** | 95 | 13 | 53 | 7 | 4 | ****** | 327 | ****** | 2.350 | 28 | ***** | 1.10 | 14 |
| SAYRE | 7952 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.810 | 30 | ***** | 1.28 | 14 |
| SWEETWATER | 8652 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.070 | 30 | ***** | 1.00 | 14 |
| TALOGA | 8708 | 4 | 77.0 | 30 | 0.6 | 97 | 1 | 53 | 7 | 4 | -1 | 364 | 17 | 1.871 | 30 | -1.78 | 0.70 | 5 |
| THOMAS | 8815 | 4 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.940 | 30 | ***** | 2.90 | 13 |
| WATONGA | 9364 | 4 | 77.5 | 30 | 0.8 | 94 | 29 | 53 | 6 | 4 | -1 | 378 | 23 | 1.781 | 30 | -2.00 | 0.72 | 5 |
| WEATHERFORD | 9422 | 4 | 77.3 | 30 | -1.2 | 94 | 28 | 57 | 6 | 1 | -2 | 369 | -37 | 3.180 | 30 | -0.91 | 1.45 | 16 |

## JUNE 2002 SUMMARY FOR CENTRAL CLIMATE DIVISION (CD5)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMBER | 200 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.730 | 30 | ***** | 0.83 | 9 |
| BLANCHARD | 830 | 5 | 76.6 | 29 | -0.7 | 91 | 26 | 60 | 13 | 0 | -2 | 338 | -32 | 4.930 | 30 | 1.03 | 1.95 | 9 |
| BRISTOW | 1144 | 5 | 77.1 | 30 | 1.0 | 91 | 29 | 55 | 15 | 0 | -3 | 363 | 29 | 3.690 | 30 | -0.76 | 1.32 | 5 |
| CHANDLER | 1684 | 5 | 77.0 | 26 | ***** | 93 | 13 | 58 | 7 | 0 | ****** | 312 | ****** | 3.761 | 26 | ***** | 1.43 | 16 |
| CHICKASHA EXP | 1750 | 5 | 77.5 | 30 | -1.8 | 93 | 28 | 59 | 6 | 0 | 0 | 376 | -53 | 3.840 | 30 | -0.27 | 1.43 | 4 |
| COX CITY | 2196 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.050 | 30 | ***** | 1.93 | 5 |
| CUSHING | 2318 | 5 | 77.2 | 30 | 0.6 | 91 | 29 | 57 | 6 | 0 | -3 | 367 | 16 | 5.990 | 30 | 1.62 | 1.82 | 5 |
| EDMOND | 2788 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.890 | 30 | ***** | 1.15 | 13 |
| GUTHRIE | 3821 | 5 | 76.6 | 29 | 0.3 | 91 | 29 | 54 | 6 | 2 | -3 | 338 | -5 | 4.390 | 30 | -0.07 | 1.30 | 13 |
| HENNESSEY | 4055 | 5 | 77.5 | 30 | 1.1 | 97 | 13 | 52 | 6 | 5 | 1 | 379 | 32 | 5.100 | 30 | 1.01 | 2.45 | 13 |
| INGALLS | 4489 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.022 | 30 | ***** | 1.45 | 13 |
| KINGFISHER | 4861 | 5 | 77.5 | 30 | 0.8 | 94 | 29 | 55 | 7 | 1 | -1 | 376 | 23 | 4.880 | 30 | 0.56 | 2.04 | 5 |
| KONAWA | 4915 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.080 | 30 | ***** | 1.56 | 4 |
| MARSHALL | 5589 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.190 | 30 | ***** | 1.17 | 5 |
| MEEKER | 5779 | 5 | 74.9 | 27 | ***** | 90 | 29 | 57 | 15 | 0 | ****** | 269 | ****** | 4.650 | 27 | ***** | 1.39 | 16 |
| MULHALL | 6110 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.510 | 30 | ***** | 1.13 | 16 |
| NORMAN NWS | 6386 | 5 | 76.5 | 30 | ***** | 90 | 28 | 60 | 17 | 0 | ****** | 344 | ****** | 4.221 | 30 | ***** | 1.15 | 15 |
| OKEMAH | 6638 | 5 | 76.7 | 30 | -1.5 | 91 | 28 | 59 | 15 | 0 | 0 | 351 | -44 | 5.500 | 30 | 0.66 | 2.06 | 14 |
| OKLAHOMA CTY | 6661 | 5 | 76.3 | 30 | -0.5 | 91 | 29 | 59 | 15 | 0 | -1 | 338 | -22 | 4.562 | 30 | -0.07 | 1.84 | 12 |
| OKLAHOMA CTY F. | 6659 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.881 | 30 | ***** | 2.01 | 12 |
| OKEMAH | 6638 | 5 | 76.8 | 30 | -1.4 | 91 | 28 | 59 | 15 | 0 | 0 | 354 | -41 | 5.500 | 30 | 0.66 | 2.06 | 14 |
| PERKINS | 7003 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.310 | 30 | ***** | 1.24 | 16 |
| PIEDMONT | 7068 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.500 | 30 | ***** | 0.94 | 5 |
| PRAGUE | 7264 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.360 | 30 | ***** | 0.91 | 14 |
| PURCELL | 7327 | 5 | 76.3 | 27 | ***** | 91 | 12 | 60 | 15 | 0 | ****** | 305 | ****** | 3.190 | 27 | ***** | 1.61 | 4 |
| SEMINOLE | 8042 | 5 | 77.1 | 30 | -0.5 | 92 | 29 | 58 | 17 | 0 | -1 | 363 | -17 | 4.510 | 30 | -0.24 | 1.82 | 5 |
| SHAWNEE | 8110 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.190 | 30 | ***** | 1.43 | 14 |
| STELLA | 8479 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.490 | 30 | ***** | 1.74 | 10 |
| STILLWATER | 8501 | 5 | 77.3 | 30 | 0.3 | 93 | 28 | 55 | 6 | 0 | -2 | 369 | 8 | 4.310 | 30 | -0.01 | 1.81 | 16 |
| TECUMSEH | 8751 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.250 | 30 | ***** | 1.00 | 5 |
| UNION CITY | 9086 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.731 | 30 | ***** | 0.79 | 5 |
| WANETTE | 9291 | 5 | 76.5 | 25 | ***** | 91 | 13 | 56 | 15 | 0 | ****** | 288 | ****** | 5.490 | 25 | ***** | 2.00 | 9 |
| WEWOKA | 9575 | 5 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.620 | 30 | ***** | 1.05 | 13 |

## JUNE 2002 SUMMARY FOR EAST CENTRAL CLIMATE DIVISION (CD6)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASHLAND | 364 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 5.282 | 30 | ***** | 3.00 | 5 |
| BEGGS | 631 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.320 | 30 | ***** | 1.72 | 13 |
| CALVIN | 1391 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.500 | 30 | ***** | 1.45 | 5 |
| CHECOTAH | 1711 | 6 | 78.2 | 30 | ***** | 92 | 28 | 60 | 15 | 0 | ****** | 397 | ****** | 3.040 | 30 | ***** | 1.36 | 5 |
| CLAYTON | 1858 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.070 | 30 | ***** | 1.13 | 5 |
| DEWAR | 2485 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.201 | 30 | ***** | 1.20 | 13 |
| HOLDENVILLE | 4235 | 6 | 78.5 | 29 | 2.6 | 95 | 28 | 60 | 30 | 0 | -1 | 391 | 63 | 4.450 | 29 | ***** | 1.86 | 4 |
| LAKE EUFAULA | 4975 | 6 | 75.6 | 30 | 0.2 | 89 | 22 | 59 | 15 | 0 | -3 | 319 | 6 | 5.340 | 30 | 0.54 | 3.10 | 5 |
| LYONS | 5437 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.500 | 30 | ***** | 2.57 | 5 |
| MCALESTER | 5664 | 6 | 77.0 | 30 | -0.6 | 91 | 23 | 57 | 15 | 0 | -1 | 361 | -17 | 6.533 | 30 | 2.00 | 2.34 | 5 |
| MCCURTAIN | 5693 | 6 | 77.3 | 30 | -0.3 | 92 | 28 | 56 | 15 | 0 | -1 | 368 | -6 | 3.125 | 30 | -2.02 | 2.00 | 5 |
| MUSKOGEE | 6130 | 6 | 77.4 | 30 | 0.9 | 91 | 28 | 55 | 14 | 0 | -2 | 373 | 27 | 3.000 | 30 | -2.09 | 1.21 | 12 |
| OKMULGEE | 6670 | 6 | 76.3 | 9 | ***** | 92 | 12 | 44 | 5 | 3 | ****** | 105 | ****** | 3.390 | 19 | ***** | 1.69 | 12 |
| OKTAHA | 6678 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.920 | 30 | ***** | 1.43 | 5 |
| SALLISAW | 7862 | 6 | 77.2 | 30 | 1.0 | 92 | 29 | 56 | 15 | 0 | -2 | 365 | 29 | 3.300 | 30 | -1.27 | 2.05 | 5 |
| SHORT | 8170 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.070 | 30 | ***** | 1.20 | 5 |
| STILWELL | 8506 | 6 | 73.0 | 30 | -0.6 | 89 | 22 | 52 | 16 | 0 | -8 | 241 | -25 | 4.400 | 30 | -0.76 | 1.90 | 26 |
| TAHLEQUAH | 8677 | 6 | 74.5 | 30 | -1.1 | 88 | 28 | 53 | 15 | 0 | -2 | 286 | -33 | 2.893 | 30 | -2.30 | 1.28 | 13 |
| WEBBERS FALL | 9445 | 6 | 77.2 | 12 | ***** | 92 | 13 | 61 | 6 | 0 | ****** | 147 | ****** | 4.230 | 16 | ***** | 2.44 | 5 |
| WETUMKA | 9571 | 6 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.951 | 30 | ***** | 1.37 | 14 |

## JUNE 2002 SUMMARY FOR SOUTHWEST CLIMATE DIVISION (CD7)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALTUS | 179 | 7 | 79.8 | 30 | 0.6 | 98 | 29 | 58 | 6 | 0 | -1 | 444 | 17 | 2.130 | 30 | -2.20 | 1.05 | 16 |
| ALTUS DAM | 184 | 7 | 79.2 | 21 | ***** | 98 | 27 | 59 | 7 | 0 | ****** | 298 | ****** | 2.480 | 30 | -1.67 | 1.06 | 14 |
| ANADARKO | 224 | 7 | 75.9 | 30 | -0.4 | 91 | 29 | 56 | 7 | 0 | -4 | 328 | -12 | 3.070 | 30 | -0.93 | 1.10 | 5 |
| APACHE | 260 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.060 | 30 | ***** | 1.40 | 16 |
| CARNEGIE | 1504 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.570 | 30 | 0.28 | 2.27 | 9 |
| CHATTANOOGA | 1706 | 7 | 77.8 | 30 | -1.5 | 97 | 13 | 55 | 24 | 0 | -1 | 386 | -44 | 5.020 | 30 | 0.99 | 2.87 | 5 |
| DUNCAN 11 W | 2668 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.040 | 30 | ***** | 1.63 | 5 |
| FREDERICK | 3353 | 7 | 79.0 | 25 | ***** | 96 | 26 | 60 | 8 | 0 | ****** | 351 | ****** | 1.570 | 25 | ***** | 1.08 | 5 |
| HOBART | 4204 | 7 | 79.3 | 30 | 0.7 | 99 | 12 | 57 | 6 | 0 | -2 | 429 | 19 | 1.945 | 30 | -1.35 | 0.60 | 15 |
| HOLLIS | 4249 | 7 | 79.5 | 30 | 0.7 | 99 | 12 | 59 | 17 | 0 | -1 | 436 | 20 | 3.850 | 30 | -0.37 | 1.38 | 14 |
| LAWTON | 5063 | 7 | 78.3 | 28 | ***** | 93 | 27 | 60 | 6 | 0 | ****** | 372 | ****** | 5.470 | 28 | ***** | 4.14 | 5 |
| LOOKEBA | 5329 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.290 | 30 | ***** | 1.92 | 16 |
| MANGUM | 5509 | 7 | 77.8 | 30 | 0.0 | 96 | 30 | 59 | 7 | 0 | -1 | 385 | -1 | 1.404 | 30 | -2.80 | 0.92 | 5 |
| RANDLETT | 7403 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.390 | 30 | ***** | 2.50 | 4 |
| ROOSEVELT | 7727 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.280 | 30 | ***** | 0.85 | 14 |
| SEDAN | 8016 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.250 | 30 | ***** | 0.90 | 14 |
| SNYDER | 8299 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 1.620 | 30 | ***** | 0.60 | 16 |
| VINSON | 9212 | 7 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.140 | 30 | ***** | 1.65 | 14 |
| WALTERS | 9278 | 7 | 77.8 | 30 | -0.7 | 94 | 30 | 61 | 6 | 0 | -1 | 384 | -21 | 3.400 | 30 | -0.86 | 2.00 | 5 |
| WICHITA MT | 9629 | 7 | 76.7 | 28 | ***** | 94 | 29 | 48 | 7 | 0 | ****** | 328 | ****** | 1.030 | 29 | ***** | 0.90 | 5 |

## JUNE 2002 SUMMARY FOR SOUTH CENTRAL CLIMATE DIVISION (CD8)

| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ADA | 17 | 8 | 76.8 | 30 | 0.1 | 90 | 28 | 59 | 15 | 0 | -1 | 353 | 1 | 4.130 | 30 | -0.40 | 1.86 | 5 |
| ALLEN | 147 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.160 | 30 | ***** | 2.05 | 5 |
| ARDMORE | 292 | 8 | 78.8 | 30 | -0.1 | 93 | 12 | 63 | 1 | 0 | 0 | 414 | -2 | 4.630 | 30 | 0.41 | 2.15 | 4 |
| ATOKA DAM | 394 | 8 | 77.5 | 24 | ***** | 91 | 29 | 56 | 15 | 0 | ****** | 301 | ****** | 4.970 | 30 | 0.32 | 1.75 | 4 |
| BOKCHITO | 917 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.750 | 30 | ***** | 1.65 | 14 |
| CANEY | 1437 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.220 | 30 | ***** | 1.52 | 14 |
| CENTRAHOMA | 1648 | 8 | 76.7 | 30 | ***** | 90 | 25 | 56 | 15 | 0 | ****** | 350 | ****** | 5.100 | 30 | ***** | 2.15 | 5 |
| CHICKASAW | 1745 | 8 | 77.0 | 29 | 0.1 | 90 | 29 | 57 | 15 | 0 | -1 | 347 | -12 | 4.490 | 29 | ***** | 3.10 | 5 |
| COLEMAN | 2011 | 8 | 76.8 | 30 | ***** | 90 | 23 | 57 | 14 | 0 | ****** | 355 | ****** | 4.600 | 30 | ***** | 2.25 | 5 |
| COMANCHE | 2054 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.190 | 30 | ***** | 1.40 | 5 |
| DAISY | 2354 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 5.550 | 30 | ***** | 1.37 | 26 |
| DUNCAN | 2660 | 8 | 77.0 | 24 | ***** | 92 | 27 | 62 | 17 | 0 | ****** | 288 | ****** | 2.550 | 26 | ***** | 1.33 | 5 |
| ELMORE CITY | 2872 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.770 | 30 | ***** | 1.48 | 5 |
| GRADY | 3688 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 0.990 | 30 | ***** | 0.53 | 16 |
| HEALDTON | 4001 | 8 | 77.3 | 30 | -0.7 | 92 | 29 | 61 | 17 | 0 | -1 | 368 | -20 | 4.450 | 30 | 0.04 | 2.60 | 5 |
| HENNEPIN | 4052 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.080 | 30 | ***** | 1.01 | 5 |
| KETCHUM RAN | 4780 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.060 | 30 | ***** | 1.00 | 5 |
| KINGSTON | 4865 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.800 | 30 | ***** | 1.90 | 5 |
| LEHIGH | 5108 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 2.701 | 30 | ***** | 0.95 | 13 |
| LINDSAY | 5216 | 8 | 77.1 | 29 | 0.1 | 95 | 28 | 59 | 16 | 0 | -1 | 351 | -12 | 2.870 | 29 | ***** | 1.22 | 4 |
| LOCO | 5247 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.090 | 30 | ***** | 1.60 | 5 |
| MADILL | 5468 | 8 | 79.3 | 30 | 1.4 | 95 | 13 | 62 | 17 | 0 | 0 | 430 | 43 | 2.720 | 30 | -2.33 | 1.80 | 5 |
| MARIETTA 5 SW | 5563 | 8 | 73.3 | 30 | -4.8 | 88 | 27 | 57 | 18 | 0 | 0 | 248 | -144 | 3.550 | 30 | -0.68 | 1.67 | 5 |
| MARLOW | 5581 | 8 | 78.1 | 30 | ***** | 94 | 29 | 60 | 17 | 0 | ****** | 393 | ****** | 3.750 | 30 | ***** | 1.81 | 5 |
| MCGEE CREEK | 5713 | 8 | 78.1 | 30 | 0.9 | 93 | 24 | 57 | 15 | 0 | 0 | 393 | 26 | 4.300 | 30 | -0.75 | 1.53 | 5 |
| PAULS VALLEY | 6926 | 8 | 76.8 | 30 | -0.3 | 93 | 29 | 58 | 15 | 0 | -1 | 355 | -9 | 2.471 | 30 | -2.09 | 0.87 | 5 |
| PONTOTOC | 7214 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 6.490 | 30 | ***** | 2.69 | 4 |
| TISHOMINGO | 8884 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.670 | 30 | ***** | 2.54 | 4 |
| TUSSY | 9032 | 8 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.141 | 30 | ***** | 1.50 | 5 |
| WAURIKA | 9395 | 8 | 78.3 | 30 | -2.0 | 93 | 28 | 62 | 17 | 0 | 0 | 401 | -57 | 3.830 | 30 | 0.00 | 1.55 | 4 |

## JUNE 2002 SUMMARY FOR SOUTHEAST CLIMATE DIVISION (CD9)

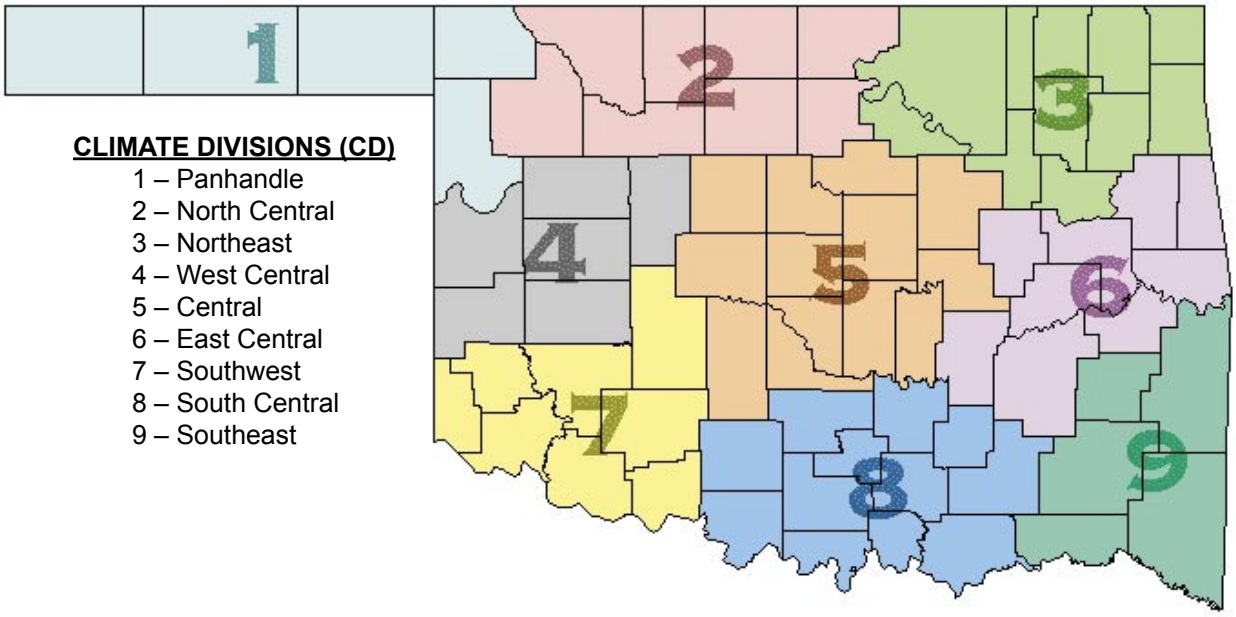
| NAME | ID | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANTLERS | 256 | 9 | 76.4 | 30 | -0.9 | 90 | 24 | 55 | 15 | 0 | 0 | 343 | -25 | 4.027 | 30 | -0.87 | 2.23 | 5 |
| BATTIEST | 567 | 9 | 73.5 | 27 | ***** | 88 | 23 | 51 | 15 | 0 | ****** | 231 | ****** | 2.281 | 28 | ***** | 1.04 | 5 |
| BENGAL | 670 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 5.020 | 30 | ***** | 3.11 | 5 |
| BROKEN BOW | 1162 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 4.261 | 30 | ***** | 2.00 | 10 |
| CARTER TWR | 1544 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 0.390 | 21 | ***** | 0.34 | 5 |
| FANSHAWE | 3065 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 7.550 | 30 | ***** | 3.58 | 5 |
| HUGO | 4384 | 9 | 77.2 | 30 | 0.1 | 91 | 23 | 57 | 17 | 0 | 0 | 366 | 2 | 2.930 | 30 | -1.89 | 1.73 | 5 |
| IDABEL | 4451 | 9 | 79.7 | 24 | ***** | 95 | 28 | 61 | 19 | 0 | ****** | 353 | ****** | 1.500 | 30 | -2.87 | 0.86 | 10 |
| PAGE | 6842 | 9 | 74.4 | 18 | ***** | 89 | 23 | 52 | 15 | 0 | ****** | 169 | ****** | 3.330 | 18 | ***** | 2.56 | 5 |
| SMITHVILLE | 8285 | 9 | 74.5 | 23 | ***** | 92 | 22 | 51 | 15 | 0 | ****** | 219 | ****** | 0.006 | 25 | ***** | 0.00 | 27 |
| SPIRO | 8416 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.520 | 30 | ***** | 2.12 | 5 |
| TUSKAHOMA | 9023 | 9 | 76.9 | 30 | -0.1 | 91 | 23 | 53 | 15 | 0 | -1 | 357 | -1 | 6.050 | 30 | 0.98 | 1.53 | 27 |
| VALLIANT | 9118 | 9 | ***** | 0 | ***** | **** | 0 | **** | 0 | ****** | ****** | ****** | ****** | 3.229 | 30 | ***** | 2.00 | 5 |
| WILBURTON | 9634 | 9 | 76.0 | 30 | -0.4 | 90 | 28 | 53 | 16 | 0 | -1 | 331 | -11 | 5.241 | 30 | 0.09 | 2.66 | 4 |
| WISTER | 9724 | 9 | 77.7 | 20 | ***** | 91 | 30 | 61 | 1 | 0 | ****** | 254 | ****** | 3.570 | 21 | ***** | 1.90 | 6 |

## JUNE 2002 CLIMATE DIVISION SUMMARY

| NAME | CD | MEAN TEMP | NUM OBS | DEV FROM NORM | MAX TEMP | DAY | MIN TEMP | DAY | HEAT DEG DAY | DEV FROM NORM | COOL DEG DAY | DEV FROM NORM | TOT PPT | NUM OBS | DEV FROM NORM | MAX 24-HR | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PANHANDLE | 1 | 78.3 | 7 | 3.9 | 103 | 11 | 48 | 6 | 3 | -11 | 399 | 105 | 2.80 1 | 1 | -.06 | 3.20 | 0 13 |
| NORTH CENTRAL | 2 | 77.5 | 10 | 0.9 | 100 | 13 | 46 | 6 | 4 | -2 | 379 | 25 | 5.11 2 | 2 | 1.18 | 5.70 | 1 13 |
| NORTHEAST | 3 | 76.6 | 13 | 0.5 | 94 | 28 | 46 | 5 | 0 | -3 | 347 | 11 | 3.90 2 | 1 | -.82 | 3.30 | 0 13 |
| WEST CENTRAL | 4 | 77.6 | 10 | 0.8 | 97 | 1 | 53 | 6 | 2 | -3 | 378 | 21 | 3.06 1 | 5 | -.80 | 4.10 | 0 9 |
| CENTRAL | 5 | 77.0 | 13 | 0.0 | 97 | 13 | 52 | 6 | 1 | -2 | 358 | -2 | 4.04 2 | 9 | -.42 | 2.40 | 5 13 |
| EAST CENTRAL | 6 | 76.5 | 9 | 0.4 | 95 | 28 | 44 | 5 | 0 | -2 | 344 | 11 | 3.91 1 | 7 | -.93 | 3.10 | 0 5 |
| SOUTHWEST | 7 | 78.3 | 7 | 0.0 | 99 | 12 | 48 | 7 | 0 | -2 | 399 | 0 | 3.11 1 | 7 | -.96 | 4.10 | 4 5 |
| SOUTH CENTRAL | 8 | 77.3 | 13 | -0.5 | 95 | 13 | 56 | 15 | 0 | -1 | 366 | -17 | 3.67 2 | 7 | -.78 | 3.10 | 0 5 |
| SOUTHEAST | 9 | 76.6 | 4 | 0.4 | 95 | 28 | 51 | 15 | 0 | -1 | 349 | 12 | 4.33 1 | 0 | -.41 | 3.50 | 8 5 |

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

## CLIMATE DIVISION MAP




**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

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

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

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

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

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

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

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

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

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

***Heating Degree Days Calculation***

**NumDays**

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

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

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

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

***Cooling Degree Days Calculation***

**NumDays**

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

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

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

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

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

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

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

# MESONET MONTHLY SUMMARY FOR JUNE 2002

| NAME | MEAN TEMP | MAX TEMP | MAX DAY | MIN TEMP | MIN DAY | HDD | CDD | TOT PPT | MAX 24-HR | MAX DAY | NAME | MEAN TEMP | MAX TEMP | MAX DAY | MIN TEMP | MIN DAY | HDD | CDD | TOT PPT | MAX 24-HR | MAX DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PANHANDLE** | | | | | | | | | | | | | | | | | | | | | |
| Arnett | 76.7 | 97 | 12 | 51 | 6 | 2 | 364 | 2.87 | 1.42 | 13 | Goodwell | 77.7 | 101 | 10 | 53 | 6 | 1 | 393 | 1.37 | 0.59 | 4 |
| Beaver | 78.9 | 99 | 3 | 52 | 6 | 0 | 431 | 2.36 | 1.49 | 15 | Hooker | 78.9 | 102 | 2 | 54 | 6 | 0 | 441 | 1.29 | 1.09 | 4 |
| Boise City | 77.1 | 100 | 2 | 50 | 4 | 4 | 365 | 2.06 | 1.52 | 4 | Kenton | 77.9 | 101 | 10 | 52 | 16 | 1 | 388 | 2.24 | 0.97 | 13 |
| Buffalo | 79.6 | 103 | 12 | 50 | 6 | 0 | 453 | ***** | ***** | *** | Slapout | 77.7 | 98 | 12 | 51 | 6 | 0 | 396 | ***** | ***** | *** |
| **NORTH CENTRAL** | | | | | | | | | | | | | | | | | | | | | |
| Alva | 77.8 | 99 | 12 | 51 | 6 | 3 | 399 | ***** | ***** | *** | May Ranch | ***** | *** | *** | *** | *** | **** | **** | ***** | ***** | *** |
| Blackwell | 76.2 | 94 | 27 | 53 | 6 | 2 | 339 | 6.03 | 1.84 | 12 | Medford | 77.4 | 96 | 11 | 52 | 6 | 3 | 382 | 4.61 | 1.53 | 4 |
| Breckenridge | 77.1 | 95 | 12 | 52 | 6 | 2 | 371 | 3.19 | 1.06 | 15 | Newkirk | 75.2 | 91 | 27 | 54 | 6 | 2 | 314 | 4.26 | 1.65 | 12 |
| Cherokee | 78.4 | 98 | 12 | 53 | 6 | 2 | 412 | 5.12 | 1.92 | 13 | Red Rock | 76.1 | 92 | 12 | 54 | 6 | 1 | 339 | 4.41 | 1.61 | 15 |
| Fairview | 78.4 | 99 | 28 | 55 | 6 | 2 | 414 | 5.47 | 2.23 | 12 | Seiling | 76.9 | 95 | 12 | 51 | 6 | 3 | 369 | 2.73 | 1.03 | 4 |
| Freedom | 77.8 | 100 | 12 | 50 | 6 | **** | **** | 2.93 | 1.05 | 13 | Woodward | 77.5 | 98 | 12 | 51 | 6 | 2 | 383 | 3.22 | 1.26 | 12 |
| Lahoma | 76.8 | 96 | 12 | 54 | 6 | 3 | 367 | 5.22 | 1.79 | 4 | | | | | | | | | | | |
| **NORTHEAST** | | | | | | | | | | | | | | | | | | | | | |
| Bixby | 76.8 | 91 | 28 | 56 | 15 | 0 | 357 | 4.34 | 2.53 | 12 | Nowata | 75.6 | 91 | 28 | 54 | 6 | 0 | 314 | 3.79 | 1.61 | 12 |
| Burbank | 75.3 | 91 | 27 | 53 | 6 | 2 | 308 | 6.04 | 3.54 | 12 | Pawnee | 75.6 | 91 | 28 | 54 | 6 | 0 | 328 | 3.22 | 1.51 | 12 |
| Claremore | 75.9 | 92 | 28 | 56 | 15 | 0 | 337 | 4.24 | 2.26 | 12 | Porter | 76.9 | 92 | 28 | 58 | 15 | 0 | 359 | 2.63 | 0.80 | 12 |
| Copan | 75.9 | 92 | 28 | 54 | 6 | 1 | 328 | 5.01 | 2.24 | 12 | Pryor | 75.5 | 91 | 28 | 55 | 15 | 0 | 312 | 2.77 | 1.88 | 12 |
| Foraker | 74.7 | 91 | 27 | 54 | 6 | 2 | 290 | 3.54 | 1.73 | 12 | Skiatook | 76.0 | 91 | 28 | 58 | 6 | 0 | 334 | 3.46 | 1.93 | 12 |
| Inola | 76.1 | 92 | 28 | 55 | 15 | 0 | 333 | 2.54 | 1.58 | 12 | Vinita | 75.3 | 91 | 21 | 54 | 6 | 0 | 305 | 3.97 | 2.44 | 12 |
| Jay | 74.9 | 90 | 28 | 54 | 15 | **** | **** | 2.79 | 1.74 | 12 | Wynona | 75.5 | 90 | 27 | 55 | 6 | 0 | 320 | 5.12 | 2.28 | 12 |
| Miami | 75.6 | 91 | 28 | 54 | 6 | 0 | 316 | 2.44 | 1.81 | 12 | | | | | | | | | | | |
| **WEST CENTRAL** | | | | | | | | | | | | | | | | | | | | | |
| Bessie | 77.3 | 95 | 12 | 56 | 6 | 0 | 380 | 6.66 | 3.30 | 8 | Putnam | 76.0 | 94 | 27 | 52 | 6 | 2 | 351 | 3.69 | 1.58 | 13 |
| Butler | 77.5 | 96 | 29 | 54 | 6 | 0 | 383 | 2.22 | 0.88 | 13 | Retrop | 77.7 | 95 | 12 | 56 | 6 | 0 | 389 | 2.44 | 0.88 | 15 |
| Camargo | 77.2 | 98 | 12 | 50 | 6 | 4 | 374 | ***** | ***** | *** | Watonga | 76.7 | 96 | 12 | 54 | 6 | 2 | 373 | 1.84 | 0.69 | 4 |
| Cheyenne | 76.1 | 93 | 28 | 55 | 6 | 1 | 346 | 2.81 | 1.18 | 13 | Weatherford | 76.7 | 95 | 12 | 55 | 6 | 1 | 370 | 2.96 | 1.13 | 15 |
| Erick | 77.3 | 95 | 29 | 58 | 6 | 0 | 377 | 1.91 | 0.73 | 4 | | | | | | | | | | | |
| **CENTRAL** | | | | | | | | | | | | | | | | | | | | | |
| Acme | 76.2 | 91 | 29 | 60 | 17 | 0 | 346 | 3.68 | 1.96 | 4 | Minco | 76.1 | 92 | 28 | 56 | 6 | 0 | 348 | 3.12 | 0.90 | 15 |
| Bowlegs | 75.7 | 90 | 28 | 56 | 15 | 0 | 323 | 5.14 | 1.47 | 13 | Ninnekah | 77.5 | 94 | 28 | 61 | 17 | 0 | 384 | 4.16 | 2.32 | 4 |
| Bristow | 75.7 | 91 | 28 | 54 | 15 | 0 | 321 | 3.93 | 1.34 | 12 | Norman | 76.5 | 93 | 28 | 60 | 15 | 0 | 351 | 3.15 | 0.78 | 15 |
| Chandler | 76.2 | 91 | 28 | 58 | 6 | 0 | 336 | 3.49 | 1.13 | 15 | Oilton | 75.5 | 91 | 28 | 54 | 15 | 0 | 315 | 4.33 | 1.32 | 12 |
| Chickasha | 77.0 | 95 | 28 | 59 | 15 | 0 | 358 | 4.03 | 1.42 | 4 | Okemah | 76.5 | 91 | 12 | 56 | 15 | 0 | 355 | 4.83 | 1.63 | 13 |
| El Reno | 75.5 | 93 | 28 | 52 | 6 | 0 | 318 | 2.53 | 0.73 | 15 | Perkins | 77.3 | 95 | 12 | 56 | 6 | 0 | 375 | 4.14 | 1.25 | 12 |
| Guthrie | 77.3 | 93 | 12 | 56 | 6 | 0 | 381 | 4.36 | 1.54 | 12 | Shawnee | 77.2 | 92 | 12 | 60 | 15 | 0 | 371 | 3.80 | 1.34 | 12 |
| Kingfisher | 77.7 | 95 | 28 | 55 | 6 | 0 | 386 | 4.48 | 1.46 | 12 | Spencer | 76.2 | 91 | 28 | 58 | 6 | 0 | 349 | 3.24 | 1.06 | 15 |
| Marena | 75.8 | 91 | 28 | 55 | 6 | 0 | 327 | 4.85 | 1.44 | 12 | Stillwater | 76.9 | 92 | 28 | 54 | 6 | 0 | 351 | 4.20 | 1.78 | 15 |
| Marshall | 77.0 | 94 | 12 | 54 | 6 | 1 | 368 | 4.21 | 1.06 | 15 | Washington | 75.9 | 91 | 28 | 60 | 15 | 0 | 333 | 3.50 | 1.62 | 4 |
| **EAST CENTRAL** | | | | | | | | | | | | | | | | | | | | | |
| Calvin | 76.2 | 91 | 28 | 56 | 15 | 0 | 342 | 3.57 | 0.83 | 5 | Sallisaw | 76.6 | 92 | 28 | 55 | 15 | **** | **** | 3.20 | 2.03 | 5 |
| Cookson | 75.2 | 91 | 22 | 52 | 15 | 0 | 314 | 5.14 | 3.05 | 5 | Stigler | 76.8 | 91 | 21 | 55 | 15 | **** | **** | 4.47 | 3.08 | 5 |
| Eufaula | 77.2 | 92 | 28 | 59 | 15 | 0 | 372 | 5.26 | 1.97 | 13 | Stuart | 76.5 | 91 | 28 | 58 | 15 | 0 | 356 | 5.68 | 1.89 | 13 |
| Haskell | 76.8 | 92 | 21 | 57 | 15 | 0 | 357 | 2.32 | 0.85 | 12 | Tahlequah | 75.1 | 90 | 28 | 52 | 15 | 0 | 303 | 3.64 | 0.91 | 12 |
| Hectorville | 76.7 | 92 | 28 | 58 | 15 | 0 | 359 | 3.20 | 1.37 | 12 | Webbers Falls | 78.1 | 94 | 28 | 57 | 15 | **** | **** | 3.40 | 2.19 | 5 |
| McAlester | 76.5 | 91 | 21 | 56 | 15 | 0 | 359 | 6.79 | 2.44 | 5 | Westville | 74.6 | 90 | 20 | 54 | 15 | 0 | 294 | 3.74 | 1.13 | 12 |
| Okmulgee | 76.3 | 91 | 12 | 55 | 15 | 0 | 340 | 2.94 | 0.97 | 12 | | | | | | | | | | | |
| **SOUTHWEST** | | | | | | | | | | | | | | | | | | | | | |
| Altus | 79.9 | 98 | 12 | 59 | 6 | 0 | 445 | 2.14 | 1.09 | 15 | Hollis | 78.3 | 97 | 12 | 58 | 6 | 0 | 404 | 3.54 | 1.43 | 4 |
| Apache | 76.3 | 92 | 12 | 58 | 6 | 0 | 350 | 2.03 | 0.79 | 13 | Mangum | 78.3 | 97 | 26 | 56 | 6 | 0 | 397 | 1.67 | 0.82 | 13 |
| Fort Cobb | 77.4 | 95 | 12 | 58 | 6 | 0 | 382 | 4.36 | 2.15 | 8 | Medicine Park | 76.9 | 92 | 26 | 59 | 6 | 0 | 370 | 2.45 | 0.84 | 4 |
| Grandfield | 79.2 | 97 | 3 | 60 | 6 | 0 | 432 | 6.35 | 3.54 | 4 | Tipton | 79.8 | 97 | 12 | 60 | 6 | 0 | 446 | 2.27 | 1.07 | 15 |
| Hinton | 76.4 | 94 | 12 | 55 | 6 | 0 | 357 | 3.51 | 1.04 | 4 | Walters | 78.8 | 95 | 26 | 60 | 6 | 0 | 413 | 3.54 | 1.39 | 4 |
| Hobart | 78.1 | 96 | 12 | 56 | 6 | 0 | 401 | 2.55 | 0.84 | 15 | | | | | | | | | | | |
| **SOUTH CENTRAL** | | | | | | | | | | | | | | | | | | | | | |
| Ada | 76.2 | 90 | 28 | 57 | 15 | 0 | 333 | 4.26 | 1.59 | 13 | Lane | 76.8 | 91 | 12 | 57 | 15 | 0 | 374 | 4.56 | 2.00 | 13 |
| Ardmore | 77.1 | 91 | 28 | 61 | 15 | 0 | 371 | ***** | ***** | *** | Madill | 77.6 | 92 | 28 | 61 | 15 | 0 | 387 | 4.30 | 1.97 | 5 |
| Bee | 78.4 | 93 | 28 | 59 | 15 | 0 | 404 | 4.34 | 1.56 | 5 | Pauls Valley | 77.2 | 91 | 28 | 61 | 17 | 0 | 370 | 2.28 | 0.72 | 13 |
| Burneyville | 77.6 | 92 | 29 | 60 | 17 | 0 | 378 | 4.32 | 1.34 | 4 | Ringling | 77.3 | 92 | 12 | 62 | 6 | 0 | 380 | 4.16 | 1.32 | 13 |
| Byars | 76.4 | 90 | 12 | 61 | 15 | 0 | 350 | 3.53 | 1.67 | 4 | Sulphur | 76.5 | 90 | 12 | 59 | 15 | 0 | 350 | 4.38 | 1.97 | 4 |
| Centrahoma | 76.3 | 91 | 23 | 55 | 15 | 0 | 348 | 3.34 | 2.38 | 13 | Tishomingo | 76.0 | 90 | 12 | 57 | 15 | 0 | 342 | 4.55 | 2.04 | 5 |
| Durant | 77.7 | 91 | 23 | 62 | 15 | 0 | 395 | 4.14 | 1.89 | 5 | Vanoss | ***** | *** | *** | *** | *** | **** | **** | ***** | ***** | *** |
| Ketchum Ranch | 76.5 | 91 | 28 | 61 | 17 | 0 | 353 | 2.73 | 0.70 | 4 | Waurika | 77.7 | 93 | 26 | 62 | 6 | 0 | 388 | 4.09 | 1.53 | 13 |
| **SOUTHEAST** | | | | | | | | | | | | | | | | | | | | | |
| Antlers | 76.0 | 92 | 28 | 51 | 15 | **** | **** | 4.81 | 2.39 | 5 | Idabel | 77.8 | 93 | 21 | 56 | 15 | 0 | 397 | 1.66 | 0.55 | 9 |
| Broken Bow | 75.5 | 92 | 22 | 55 | 15 | 0 | 344 | 3.52 | 2.32 | 9 | Mt Herman | 75.1 | 90 | 21 | 53 | 15 | **** | **** | 2.45 | 0.76 | 5 |
| Clayton | 76.9 | 93 | 21 | 55 | 15 | 0 | 370 | ***** | ***** | *** | Talihina | 76.9 | 94 | 21 | 53 | 15 | 0 | 364 | 3.54 | 1.81 | 5 |
| Cloudy | 76.1 | 90 | 23 | 56 | 15 | 0 | 350 | 4.01 | 2.04 | 5 | Wilburton | 75.9 | 92 | 28 | 54 | 15 | 0 | 346 | 4.32 | 2.16 | 5 |
| Hugo | 77.2 | 90 | 21 | 58 | 15 | 0 | 372 | 3.84 | 1.78 | 5 | Wister | 76.2 | 92 | 21 | 56 | 15 | 0 | 345 | 4.32 | 2.56 | 5 |

## EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION JUNE 2002

| CD | MAX TEMP | DATE | LOCATION | MIN TEMP | DATE | LOCATION | 24-HOUR PRECIP | DATE | LOCATION | MONTHLY PRECIP | LOCATION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 103 | 11 | GOODWELL | 48 | 6 | GAGE | 3.20 | 13 | GAGE | 4.68 | GAGE |
| | 103 | 12 | GOODWELL | | | | | | | | |
| | 103 | 11 | GUYMON | | | | | | | | |
| 2 | 100 | 13 | ALVA | 46 | 6 | FT SUPPLY | 5.71 | 13 | FT SUPPLY | 10.55 | BRAMAN |
| 3 | 94 | 27 | BARTLESVILLE | 46 | 5 | NOWATA | 3.30 | 13 | RALSTON | 5.85 | PAWHUSKA |
| | 94 | 28 | BARTLESVILLE | | | | | | | | |
| 4 | 97 | 13 | ERICK | 53 | 6 | CANTON DAM | 4.10 | 9 | CORDELL | 6.34 | CORDELL |
| | 97 | 29 | ERICK | 53 | 6 | OKEENE | | | | | |
| | 97 | 12 | OKEENE | 53 | 7 | OKEENE | | | | | |
| | 97 | 1 | TALOGA | 53 | 6 | REYDON | | | | | |
| | | | | 53 | 7 | REYDON | | | | | |
| 5 | 97 | 13 | HENNESSEY | 52 | 6 | HENNESSEY | 2.45 | 13 | HENNESSEY | 5.99 | CUSHING |
| 6 | 95 | 12 | HOLDENVILLE | 44 | 5 | OKMULGEE | 3.10 | 5 | LAKE EUFAULA | 6.53 | MCALESTER |
| | 95 | 23 | HOLDENVILLE | | | | | | | | |
| | 95 | 28 | HOLDENVILLE | | | | | | | | |
| 7 | 99 | 12 | HOBART | 48 | 7 | WICHITA MT | 4.14 | 5 | LAWTON | 5.47 | LAWTON |
| | 99 | 3 | HOLLIS | | | | | | | | |
| | 99 | 11 | HOLLIS | | | | | | | | |
| | 99 | 12 | HOLLIS | | | | | | | | |
| 8 | 95 | 28 | LINDSAY | 56 | 15 | ATOKA DAM | 3.10 | 5 | CHICKASAW | 6.49 | PONTOTOC |
| | 95 | 13 | MADILL | 56 | 15 | CENTRAHOMA | | | | | |
| 9 | 95 | 3 | IDABEL | 51 | 15 | BATTIEST | 3.58 | 5 | FANSHAWE | 7.55 | FANSHAWE |
| | 95 | 27 | IDABEL | 51 | 15 | SMITHVILLE | | | | | |
| | 95 | 28 | IDABEL | | | | | | | | |

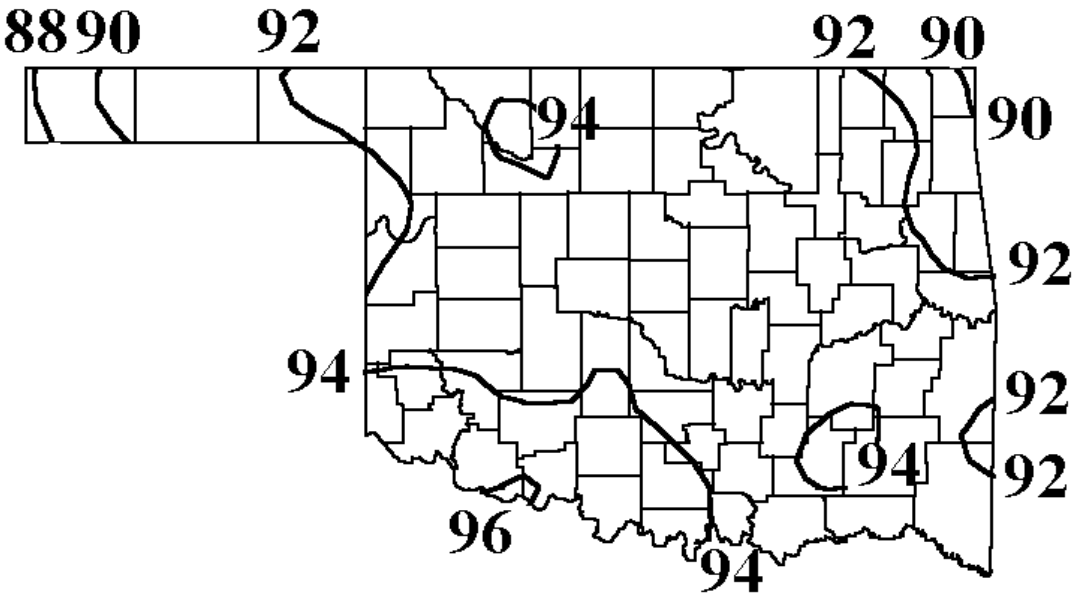
## TABLE OF 2001/2002 COMPARISONS

| | June Temperature ( F) | | June Precipitation (in.) | |
|---|---|---|---|---|
| **Station** | **2001** | **2002** | **2001** | **2002** |
| Arnett | 74.3 | 75.8 | 2.11 | 4.52 |
| Enid | 78.2 | 79.4 | 1.65 | 4.48 |
| Tulsa | 78.1 | 78.0 | 3.05 | 2.90 |
| Elk City | 77.1 | 76.8 | 0.76 | 2.89 |
| Oklahoma City | 76.3 | 76.3 | 0.55 | 4.56 |
| McAlester | 76.6 | 77.0 | 3.83 | 6.53 |
| Altus Irr Station | 80.9 | 79.8 | 0.35 | 2.13 |
| Ardmore | 79.9 | 78.8 | 2.53 | 4.63 |
| Idabel | 77.4 | 79.7 | 5.27 | 1.50 |

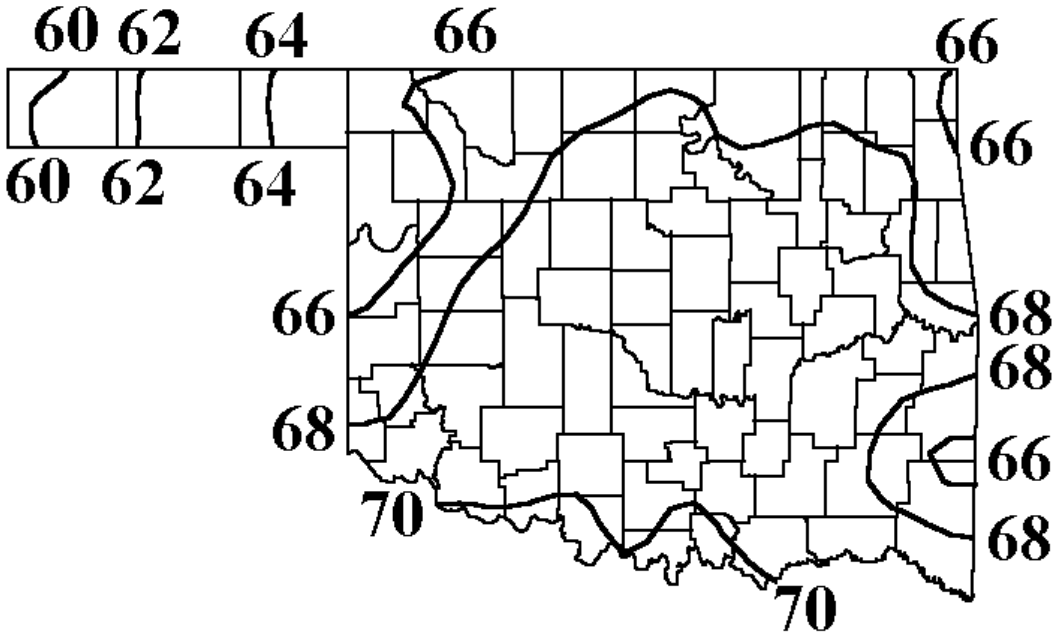
## JUNE 2002 STATEWIDE EXTREMES

| VARIABLE | STATION | DIVISION | OBSERVATION | DATE |
|---|---|---|---|---|
| Minimum temperature ( F) | Okmulgee | 6 | 44 | 5 |
| Maximum temperature ( F) | Goodwell | 1 | 103 | 11,12 |
| | Guymon | 1 | 103 | 11 |
| Maximum 24-hour Precipitation | Ft. Supply | 2 | 5.71 | 13 |

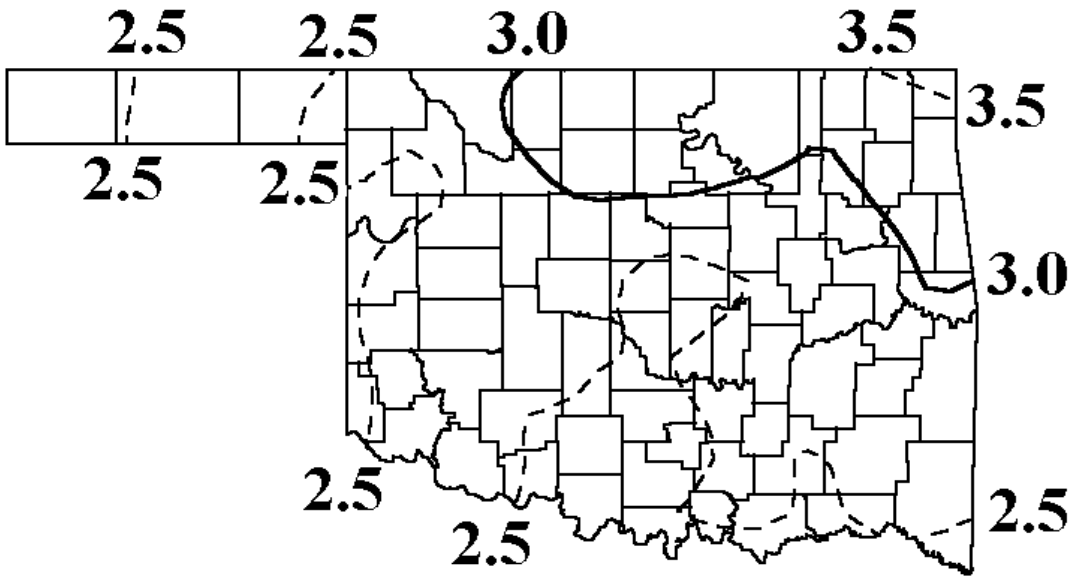
## AUGUST NORMAL DAILY MAXIMUM TEMPERATURE (ºF)




## AUGUST NORMAL DAILY MINIMUM TEMPERATURE (ºF)



## AUGUST NORMAL MONTHLY PRECIPITATION (INCHES)




## AUGUST TORNADO STATISTICS

The most tornadoes reported in **AUGUST** for Oklahoma was **(13)** in **1979**.

The average number of tornadoes in **AUGUST** for Oklahoma is **(1.6)**.

## OUTLOOK FOR AUGUST 2002 THROUGH OCTOBER 2002

### BASED ON SEASONAL OUTLOOK PROVIDED BY THE CLIMATE PREDICTION CENTER

**Temperature: Above Normal Temperature in Panhandle**
**Near Normal Elsewhere**

**Precipitation: Near Normal Precipitation Statewide**

## OKLAHOMA CITY CLIMATE CALENDAR

## AUGUST

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

| Day | Avg. Temp. | Ave. High | 2002 | Record High | Year | Lowest Max | Year | Ave. Low | 2002 | Highest Min. | Year | Record Low | Year | Avg. Precip. | 2002 | Greatest Precip. | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 83 | 95 | | 108 | 1980 | 72 | 1950 | 71 | | 83 | 1934 | 58 | 1971 | 0.07 | | 2.38 | 1995 |
| 2 | 83 | 94 | | 110 | 1980 | 80 | 1898 | 71 | | 81 | 1932 | 57 | 1971 | 0.07 | | 1.41 | 1894 |
| 3 | 83 | 94 | | 106 | 1930 | 72 | 1907 | 71 | | 80 | 1944 | 59 | 1973 | 0.07 | | 1.82 | 1990 |
| 4 | 83 | 94 | | 105 | 1918 | 75 | 1978 | 71 | | 82 | 1980 | 58 | 1973 | 0.07 | | 1.32 | 1985 |
| 5 | 83 | 94 | | 106 | 1964 | 76 | 1920 | 71 | | 80 | 1923 | 55 | 1894 | 0.07 | | 1.24 | 1999 |
| 6 | 83 | 94 | | 107 | 1951 | 76 | 1971 | 71 | | 80 | 1980 | 56 | 1894 | 0.07 | | 1.38 | 1965 |
| 7 | 82 | 94 | | 107 | 1946 | 69 | 1997 | 71 | | 82 | 1951 | 57 | 1993 | 0.07 | | 2.15 | 1939 |
| 8 | 82 | 94 | | 106 | 1970 | 75 | 1997 | 71 | | 82 | 1951 | 54 | 1989 | 0.07 | | 2.60 | 1912 |
| 9 | 82 | 94 | | 109 | 1936 | 75 | 1927 | 71 | | 80 | 1970 | 58 | 1908 | 0.07 | | 1.83 | 1915 |
| 10 | 82 | 94 | | 112 | 1936 | 71 | 1989 | 71 | | 81 | 1937 | 62 | 1917 | 0.07 | | 1.18 | 1977 |
| 11 | 82 | 94 | | 113 | 1936 | 73 | 1968 | 71 | | 82 | 1936 | 58 | 1931 | 0.08 | | 2.86 | 1892 |
| 12 | 82 | 94 | | 110 | 1936 | 72 | 1920 | 70 | | 83 | 1936 | 56 | 1967 | 0.08 | | 1.85 | 1901 |
| 13 | 82 | 93 | | 107 | 1936 | 73 | 1989 | 70 | | 83 | 1936 | 54 | 1967 | 0.08 | | 1.67 | 1989 |
| 14 | 82 | 93 | | 106 | 1956 | 68 | 1989 | 70 | | 79 | 1943 | 60 | 1967 | 0.08 | | 1.93 | 1989 |
| 15 | 82 | 93 | | 107 | 1956 | 77 | 1942 | 70 | | 81 | 1954 | 59 | 1992 | 0.08 | | 2.69 | 1945 |
| 16 | 81 | 93 | | 107 | 1956 | 79 | 1964 | 70 | | 81 | 1934 | 53 | 1994 | 0.08 | | 1.32 | 1981 |
| 17 | 81 | 93 | | 108 | 1909 | 76 | 1932 | 70 | | 82 | 1934 | 59 | 1994 | 0.08 | | 0.93 | 1932 |
| 18 | 81 | 93 | | 104 | 1918 | 68 | 1992 | 70 | | 81 | 1934 | 57 | 1943 | 0.08 | | 2.87 | 1966 |
| 19 | 81 | 92 | | 106 | 1934 | 72 | 1915 | 69 | | 80 | 1954 | 56 | 1932 | 0.09 | | 0.87 | 1977 |
| 20 | 81 | 92 | | 105 | 1911 | 65 | 1950 | 69 | | 81 | 1934 | 56 | 1950 | 0.09 | | 1.83 | 1983 |
| 21 | 81 | 92 | | 105 | 1911 | 74 | 1920 | 69 | | 81 | 1934 | 51 | 1956 | 0.09 | | 1.20 | 1979 |
| 22 | 80 | 92 | | 104 | 1922 | 72 | 1920 | 69 | | 80 | 1922 | 56 | 1956 | 0.09 | | 3.17 | 1934 |
| 23 | 80 | 91 | | 105 | 1980 | 70 | 1966 | 69 | | 80 | 1988 | 49 | 1891 | 0.09 | | 2.27 | 1924 |
| 24 | 80 | 91 | | 107 | 1922 | 73 | 1966 | 69 | | 78 | 1936 | 50 | 1891 | 0.09 | | 1.11 | 1918 |
| 25 | 80 | 91 | | 102 | 2000 | 72 | 1934 | 68 | | 78 | 1936 | 58 | 1966 | 0.10 | | 1.81 | 1934 |
| 26 | 79 | 91 | | 105 | 1999 | 68 | 1992 | 68 | | 78 | 1936 | 53 | 1910 | 0.10 | | 1.16 | 1896 |
| 27 | 79 | 90 | | 104 | 2000 | 69 | 1987 | 68 | | 78 | 1963 | 52 | 1906 | 0.10 | | 1.53 | 1941 |
| 28 | 79 | 90 | | 103 | 2000 | 68 | 1988 | 68 | | 80 | 1951 | 56 | 1906 | 0.10 | | 1.44 | 1900 |
| 29 | 79 | 90 | | 106 | 1984 | 70 | 1968 | 67 | | 79 | 1951 | 50 | 1893 | 0.10 | | 2.33 | 1935 |
| 30 | 78 | 89 | | 105 | 1947 | 70 | 1915 | 67 | | 78 | 1947 | 49 | 1915 | 0.11 | | 1.32 | 1928 |
| 31 | 78 | 89 | | 104 | 2000 | 67 | 1993 | 67 | | 79 | 1980 | 51 | 1915 | 0.11 | | 2.35 | 1966 |
| **MONTH** | **81.1** | **92.5** | | **113** | **1936** | **65** | **1950** | **69.6** | | **83** | **1936** | **49** | **1915** | **0.10** | | **3.17** | **1934** |

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

## TULSA CLIMATE CALENDAR

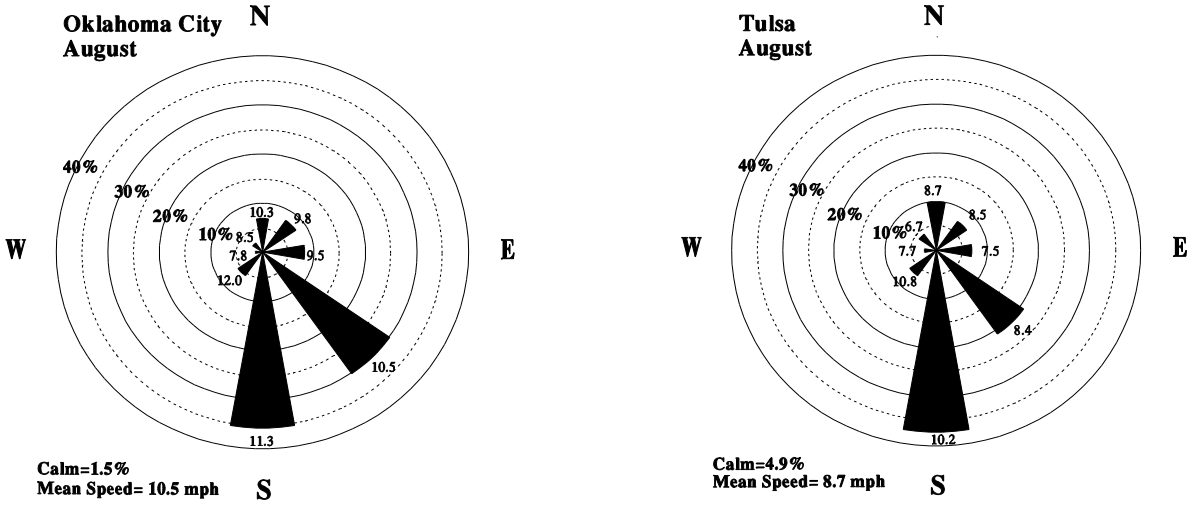
## AUGUST

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

| Day | Avg. Temp. | Ave. High | 2002 | Record High | Year | Lowest Max | Year | Ave. Low | 2002 | Highest Min. | Year | Record Low | Year | Avg. Precip. | 2002 | Greatest Precip. | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 84 | 95 | | 110 | 1923 | 76 | 1950 | 73 | | 86 | 1980 | 59 | 1925 | 0.09 | | 1.62 | 1915 |
| 2 | 84 | 95 | | 108 | 1980 | 82 | 1976 | 73 | | 84 | 1980 | 57 | 1971 | 0.09 | | 1.55 | 1917 |
| 3 | 84 | 95 | | 110 | 1923 | 80 | 1927 | 73 | | 81 | 1987 | 57 | 1976 | 0.09 | | 1.82 | 1911 |
| 4 | 83 | 94 | | 111 | 1923 | 72 | 1978 | 72 | | 84 | 1980 | 52 | 1920 | 0.08 | | 2.25 | 1928 |
| 5 | 83 | 94 | | 110 | 1964 | 72 | 1993 | 72 | | 82 | 1980 | 57 | 1920 | 0.09 | | 1.64 | 1906 |
| 6 | 83 | 94 | | 109 | 1956 | 70 | 1948 | 72 | | 82 | 1980 | 60 | 1997 | 0.09 | | 1.82 | 1944 |
| 7 | 83 | 94 | | 109 | 1935 | 78 | 1989 | 72 | | 83 | 2000 | 58 | 1993 | 0.09 | | 2.25 | 1905 |
| 8 | 83 | 94 | | 111 | 1935 | 72 | 1997 | 72 | | 84 | 1936 | 57 | 1989 | 0.09 | | 2.43 | 1973 |
| 9 | 83 | 94 | | 114 | 1936 | 75 | 1917 | 72 | | 82 | 2001 | 59 | 1989 | 0.09 | | 2.65 | 1974 |
| 10 | 83 | 94 | | 115 | 1936 | 77 | 1996 | 72 | | 83 | 1934 | 55 | 1920 | 0.09 | | 2.19 | 1979 |
| 11 | 83 | 94 | | 114 | 1936 | 74 | 1968 | 72 | | 81 | 1936 | 58 | 1931 | 0.09 | | 2.00 | 1902 |
| 12 | 82 | 94 | | 113 | 1936 | 75 | 1920 | 71 | | 83 | 1936 | 52 | 1967 | 0.09 | | 1.35 | 1941 |
| 13 | 82 | 93 | | 114 | 1936 | 74 | 1961 | 71 | | 84 | 1980 | 54 | 1967 | 0.09 | | 1.37 | 1949 |
| 14 | 82 | 93 | | 110 | 1923 | 70 | 1961 | 71 | | 83 | 1980 | 53 | 1920 | 0.09 | | 3.39 | 1942 |
| 15 | 82 | 93 | | 109 | 1936 | 72 | 1961 | 71 | | 84 | 1909 | 53 | 1994 | 0.09 | | 2.19 | 1969 |
| 16 | 82 | 93 | | 109 | 1956 | 77 | 1964 | 71 | | 86 | 1909 | 57 | 1992 | 0.09 | | 5.12 | 1938 |
| 17 | 82 | 93 | | 109 | 1909 | 74 | 1957 | 71 | | 84 | 1956 | 53 | 1920 | 0.10 | | 2.04 | 1938 |
| 18 | 81 | 93 | | 109 | 1918 | 76 | 1992 | 70 | | 84 | 1934 | 54 | 1943 | 0.10 | | 1.82 | 1928 |
| 19 | 81 | 92 | | 108 | 1934 | 74 | 1915 | 70 | | 82 | 1936 | 56 | 1932 | 0.10 | | 1.60 | 1915 |
| 20 | 81 | 92 | | 106 | 1935 | 66 | 1950 | 70 | | 82 | 1936 | 53 | 1967 | 0.10 | | 5.37 | 1989 |
| 21 | 81 | 92 | | 106 | 1936 | 75 | 1907 | 70 | | 80 | 1987 | 54 | 1950 | 0.10 | | 3.21 | 1937 |
| 22 | 81 | 92 | | 106 | 1936 | 72 | 1961 | 70 | | 80 | 2001 | 50 | 1920 | 0.11 | | 1.14 | 1971 |
| 23 | 80 | 91 | | 108 | 1936 | 68 | 1966 | 70 | | 79 | 2000 | 51 | 1920 | 0.11 | | 1.32 | 1930 |
| 24 | 80 | 91 | | 107 | 1936 | 69 | 1911 | 69 | | 80 | 1983 | 53 | 1920 | 0.11 | | 2.23 | 1911 |
| 25 | 80 | 91 | | 105 | 1978 | 73 | 1942 | 69 | | 80 | 1998 | 57 | 1966 | 0.11 | | 2.05 | 1946 |
| 26 | 80 | 90 | | 109 | 1999 | 74 | 1946 | 69 | | 81 | 1978 | 52 | 1910 | 0.12 | | 1.91 | 1987 |
| 27 | 79 | 90 | | 105 | 2000 | 70 | 1987 | 69 | | 81 | 2000 | 50 | 1910 | 0.12 | | 1.42 | 1927 |
| 28 | 79 | 90 | | 104 | 1963 | 67 | 1917 | 68 | | 80 | 2000 | 53 | 1967 | 0.12 | | 3.74 | 1927 |
| 29 | 79 | 89 | | 107 | 1984 | 70 | 1974 | 68 | | 79 | 1984 | 51 | 1931 | 0.13 | | 2.36 | 1955 |
| 30 | 79 | 89 | | 107 | 1947 | 72 | 1968 | 68 | | 79 | 1983 | 50 | 1915 | 0.13 | | 0.95 | 1928 |
| 31 | 78 | 89 | | 106 | 1951 | 72 | 1993 | 68 | | 84 | 1980 | 48 | 1915 | 0.13 | | 1.86 | 1962 |
| **MONTH** | **81.5** | **92.5** | | **115** | **1936** | **66** | **1950** | **70.6** | | **86** | **1980** | **50** | **1920** | **0.10** | | **5.37** | **1989** |

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

## AUGUST WIND ROSES




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

## AUGUST SUNRISE/SUNSET TIMES FOR 2002

ALL TIMES ARE CENTRAL STANDARD TIME

| OKLAHOMA CITY | | | TULSA | | |
|---|---|---|---|---|---|
| DATE | SUNRISE | SUNSET | DATE | SUNRISE | SUNSET |
| 8/1/02 | 5:39 AM | 7:34 PM | 8/1/02 | 5:31 AM | 7:29 PM |
| 8/2/02 | 5:39 AM | 7:33 PM | 8/2/02 | 5:32 AM | 7:28 PM |
| 8/3/02 | 5:40 AM | 7:32 PM | 8/3/02 | 5:32 AM | 7:27 PM |
| 8/4/02 | 5:41 AM | 7:31 PM | 8/4/02 | 5:33 AM | 7:26 PM |
| 8/5/02 | 5:42 AM | 7:30 PM | 8/5/02 | 5:34 AM | 7:25 PM |
| 8/6/02 | 5:42 AM | 7:29 PM | 8/6/02 | 5:35 AM | 7:24 PM |
| 8/7/02 | 5:43 AM | 7:28 PM | 8/7/02 | 5:36 AM | 7:23 PM |
| 8/8/02 | 5:44 AM | 7:27 PM | 8/8/02 | 5:36 AM | 7:22 PM |
| 8/9/02 | 5:45 AM | 7:26 PM | 8/9/02 | 5:37 AM | 7:21 PM |
| 8/10/02 | 5:45 AM | 7:25 PM | 8/10/02 | 5:38 AM | 7:20 PM |
| 8/11/02 | 5:46 AM | 7:24 PM | 8/11/02 | 5:39 AM | 7:19 PM |
| 8/12/02 | 5:47 AM | 7:23 PM | 8/12/02 | 5:40 AM | 7:17 PM |
| 8/13/02 | 5:48 AM | 7:22 PM | 8/13/02 | 5:40 AM | 7:16 PM |
| 8/14/02 | 5:49 AM | 7:20 PM | 8/14/02 | 5:41 AM | 7:15 PM |
| 8/15/02 | 5:49 AM | 7:19 PM | 8/15/02 | 5:42 AM | 7:14 PM |
| 8/16/02 | 5:50 AM | 7:18 PM | 8/16/02 | 5:43 AM | 7:13 PM |
| 8/17/02 | 5:51 AM | 7:17 PM | 8/17/02 | 5:44 AM | 7:11 PM |
| 8/18/02 | 5:52 AM | 7:16 PM | 8/18/02 | 5:44 AM | 7:10 PM |
| 8/19/02 | 5:52 AM | 7:14 PM | 8/19/02 | 5:45 AM | 7:09 PM |
| 8/20/02 | 5:53 AM | 7:13 PM | 8/20/02 | 5:46 AM | 7:08 PM |
| 8/21/02 | 5:54 AM | 7:12 PM | 8/21/02 | 5:47 AM | 7:06 PM |
| 8/22/02 | 5:55 AM | 7:11 PM | 8/22/02 | 5:48 AM | 7:05 PM |
| 8/23/02 | 5:56 AM | 7:09 PM | 8/23/02 | 5:48 AM | 7:04 PM |
| 8/24/02 | 5:56 AM | 7:08 PM | 8/24/02 | 5:49 AM | 7:02 PM |
| 8/25/02 | 5:57 AM | 7:07 PM | 8/25/02 | 5:50 AM | 7:01 PM |
| 8/26/02 | 5:58 AM | 7:05 PM | 8/26/02 | 5:51 AM | 7:00 PM |
| 8/27/02 | 5:59 AM | 7:04 PM | 8/27/02 | 5:51 AM | 6:58 PM |
| 8/28/02 | 5:59 AM | 7:03 PM | 8/28/02 | 5:52 AM | 6:57 PM |
| 8/29/02 | 6:00 AM | 7:01 PM | 8/29/02 | 5:53 AM | 6:56 PM |
| 8/30/02 | 6:01 AM | 7:00 PM | 8/30/02 | 5:54 AM | 6:54 PM |
| 8/31/02 | 6:02 AM | 6:59 PM | 8/31/02 | 5:55 AM | 6:53 PM |

**ADD ONE HOUR FOR CENTRAL DAYLIGHT TIME**

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