Station: ALVA, OK

Climatography of the United States No. 20 1971-2000

National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801 www.ncdc.noaa.gov

COOP ID: 340193

Climate Division: OK 3 NWS Call Sign: Elevation: 1,395 Feet Lat: 36°49N Lon: 98°39W

| | | | | | | | | | ŗ | Гетр | eratui | re (°F) | | | | | | | | | |
|-------|--------------|--------------|------|---|-------------|----|------|-------------|------|-------------|--------|----------------------------|-------------|---------|--------------------|------------|-----------|-----------|-----------|-----------|----------|
| | Mea | n (1) | | | | | | Extr | emes | | | | | | Days (1) emp 65 | | Mean | Numb | er of I | Days (3) | |
| Month | Daily Max | Daily Min | Mean | Highest Daily(2) Year Day Highest Month(1) Mean Highest Month(1) Year Daily(2) 22 41.1 1990 -11 | | | | | | Year | Day | Lowest Month(1) Mean | Year | Heating | Cooling | Max >= 100 | Max >= 90 | Max >= 50 | Max <= 32 | Min <= 32 | Min <= 0 |
| Jan | 44.2 | 19.6 | 31.9 | 82 | 1967 | 22 | 41.1 | 1990 | -11 | 1959 | 4 | 17.4 | 1979 | 1025 | 0 | .0 | .0 | 14.1 | 5.1 | 26.9 | .7 |
| Feb | 51.4 | 24.0 | 37.7 | 93 | 1996 | 22 | 47.3 | 1976 | -9 | 1951 | 1 | 23.2 | 1978 | 768 | 0 | .0 | @ | 16.8 | 3.0 | 19.3 | .6 |
| Mar | 60.2 | 32.5 | 46.4 | 95 | 1994 | 17 | 52.2 | 1986 | -5+ | 1948 | 11 | 40.1 | 1996 | 578 | 0 | .0 | .2 | 25.3 | .5 | 11.2 | .0 |
| Apr | 70.5 | 42.9 | 56.7 | 100+ | 1953 | 22 | 64.4 | 1981 | 19 | 1975 | 3 | 49.9 | 1983 | 274 | 24 | @ | 1.2 | 29.5 | .0 | 2.1 | .0 |
| May | 79.6 | 54.9 | 67.3 | 107 | 1996 | 23 | 73.8 | 1996 | 30 | 1954 | 3 | 61.9 | 1976 | 69 | 139 | .4 | 4.7 | 31.0 | .0 | .0 | .0 |
| Jun | 90.2 | 64.3 | 77.3 | 111+ | 1950 | 25 | 82.1 | 1990 | 41 | 1951 | 7 | 72.2 | 1982 | 4 | 371 | 3.6 | 18.1 | 30.0 | .0 | .0 | .0 |
| Jul | 96.3 | 69.5 | 82.9 | 114 | 1954 | 14 | 88.6 | 1980 | 52+ | 1950 | 14 | 79.6 | 1972 | 0 | 555 | 11.7 | 26.9 | 31.0 | .0 | .0 | .0 |
| Aug | 94.3 | 67.5 | 80.9 | 113 | 1952 | 16 | 88.4 | 2000 | 49 | 1950 | 21 | 74.9 | 1992 | 1 | 494 | 10.3 | 24.1 | 31.0 | .0 | .0 | .0 |
| Sep | 85.7 | 58.9 | 72.3 | 112 | 2000 | 4 | 80.8 | 1998 | 31 | 1989 | 24 | 63.2 | 1974 | 29 | 249 | 2.7 | 13.2 | 30.0 | .0 | @ | .0 |
| Oct | 73.6 | 46.0 | 59.8 | 101+ | 1951 | 4 | 65.2 | 1979 | 14 | 1993 | 31 | 54.2 | 1976 | 190 | 29 | .0 | 2.3 | 30.6 | .0 | 1.3 | .0 |
| Nov | 57.4 | 32.3 | 44.9 | 92 | 1950 | 1 | 54.1 | 1999 | 8+ | 1952 | 28 | 38.9 | 1972 | 605 | 0 | .0 | @ | 22.6 | .3 | 11.9 | .0 |
| Dec | 46.4 | 23.0 | 34.7 | 85 | 1955 | 24 | 39.5 | 1988 | -15 | 1989 | 23 | 19.6 | 1983 | 940 | 0 | .0 | .0 | 14.6 | 3.1 | 24.4 | .6 |
| Ann | 70.8 | 44.6 | 57.7 | 114 | Jul 1954 | 14 | 88.6 | Jul 1980 | -15 | Dec 1989 | 23 | 17.4 | Jan 1979 | 4483 | 1861 | 28.7 | 90.7 | 306.5 | 12.0 | 97.1 | 1.9 |

⁺ Also occurred on an earlier date(s)

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004 004-A

[@] Denotes mean number of days greater than 0 but less than .05

⁽¹⁾ From the 1971-2000 Monthly Normals

⁽²⁾ Derived from station's available digital record: 1948-2001

⁽³⁾ Derived from 1971-2000 serially complete daily data

Climatography of the United States No. 20 1971-2000

National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801 www.ncdc.noaa.gov

Station: ALVA, OK COOP ID: 340193

Climate Division: OK 3 NWS Call Sign: Elevation: 1,395 Feet Lat: 36°49N Lon: 98°39W

| | | | | | | | | | | Pı | recipi | tation | (incl | nes) | | | | | | | | | | |
|-------|-------|-------------|---------------------|-------------|--------|-----------------------|-------------|----------------------|-------------|------------|------------|-----------------|------------|-------|---|-----------|-------|---------------------|-------|-------|----------------------|-----------|----------|-------|
| | | | P | recip | itatio | n Total | s | | | M | ean N | lumbo ays (3 | _ | Proba | ability tl | nat the n | | annual ₁ | | | ies (1) ll be equ | ıal to or | less tha | n the |
| | Medi | | | | | Extremes | i. | | | D | aily Pre | cipitatio | n | | Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution | | | | | | | | | |
| Month | Mean | Med- ian | Highest Daily(2) | Year | Day | Highest Monthly(1) | Year | Lowest Monthly(1) | Year | >= 0.01 | >= 0.10 | >= 0.50 | >= 1.00 | .05 | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | .95 |
| Jan | .81 | .70 | 1.28 | 1999 | 30 | 2.51 | 1999 | .00+ | 1986 | 3.4 | 2.0 | .6 | .1 | .00 | .04 | .16 | .28 | .41 | .57 | .76 | 1.00 | 1.33 | 1.90 | 2.46 |
| Feb | .98 | .82 | 1.70 | 1997 | 21 | 2.57 | 1990 | .00+ | 1991 | 4.2 | 2.5 | .6 | .1 | .00 | .04 | .17 | .32 | .48 | .67 | .90 | 1.19 | 1.61 | 2.31 | 3.01 |
| Mar | 2.36 | 2.01 | 2.52 | 2000 | 23 | 8.52 | 2000 | .00+ | 1972 | 6.8 | 4.4 | 1.9 | .7 | .00 | .29 | .73 | 1.10 | 1.49 | 1.91 | 2.38 | 2.95 | 3.73 | 4.99 | 6.21 |
| Apr | 2.59 | 2.23 | 2.99 | 1970 | 18 | 8.06 | 1999 | .02 | 1996 | 6.7 | 4.6 | 2.0 | .6 | .30 | .50 | .86 | 1.22 | 1.61 | 2.04 | 2.54 | 3.16 | 4.01 | 5.40 | 6.75 |
| May | 4.55 | 3.98 | 4.23 | 1957 | 16 | 11.16 | 1993 | 1.02 | 1971 | 9.1 | 6.6 | 3.2 | 1.4 | 1.57 | 2.00 | 2.62 | 3.15 | 3.66 | 4.18 | 4.75 | 5.41 | 6.26 | 7.58 | 8.79 |
| Jun | 3.27 | 2.65 | 4.36 | 1963 | 23 | 9.29 | 1992 | .16 | 1990 | 8.0 | 5.5 | 2.5 | 1.0 | .54 | .82 | 1.30 | 1.75 | 2.21 | 2.71 | 3.29 | 3.99 | 4.93 | 6.46 | 7.92 |
| Jul | 2.48 | 2.49 | 3.02+ | 1960 | 4 | 5.62 | 1994 | .11 | 1983 | 5.3 | 4.0 | 1.5 | .6 | .38 | .59 | .95 | 1.29 | 1.64 | 2.03 | 2.48 | 3.02 | 3.76 | 4.95 | 6.09 |
| Aug | 3.22 | 2.63 | 4.84 | 1960 | 9 | 9.45 | 1977 | .16 | 1973 | 6.2 | 4.5 | 1.8 | 1.0 | .35 | .60 | 1.04 | 1.49 | 1.97 | 2.51 | 3.14 | 3.93 | 5.00 | 6.78 | 8.50 |
| Sep | 2.42 | 1.85 | 3.36 | 1991 | 1 | 6.57 | 1986 | .00 | 2000 | 6.3 | 4.3 | 1.6 | .7 | .12 | .33 | .69 | 1.05 | 1.43 | 1.85 | 2.35 | 2.97 | 3.82 | 5.23 | 6.60 |
| Oct | 1.89 | 1.86 | 3.93 | 1998 | 31 | 8.44 | 1998 | .00 | 1978 | 5.2 | 3.4 | 1.4 | .4 | .04 | .15 | .38 | .64 | .95 | 1.30 | 1.74 | 2.29 | 3.08 | 4.42 | 5.75 |
| Nov | 1.68 | 1.33 | 3.24 | 1998 | 1 | 6.59 | 1992 | .00+ | 1995 | 4.6 | 3.0 | 1.1 | .4 | .00 | .08 | .30 | .55 | .83 | 1.16 | 1.55 | 2.05 | 2.76 | 3.96 | 5.16 |
| Dec | 1.02 | .71 | 1.78 | 1999 | 5 | 3.50 | 1997 | .00 | 1976 | 4.0 | 2.5 | .6 | .2 | .04 | .13 | .28 | .43 | .59 | .77 | .99 | 1.26 | 1.62 | 2.24 | 2.83 |
| Ann | 27.27 | 27.52 | 4.84 | Aug 1960 | 9 | 11.16 | May 1993 | .00+ | Sep 2000 | 69.8 | 47.3 | 18.8 | 7.2 | 19.43 | 20.95 | 22.89 | 24.37 | 25.68 | 26.95 | 28.25 | 29.70 | 31.45 | 33.99 | 36.19 |

⁺ Also occurred on an earlier date(s)

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[#] Denotes amounts of a trace

[@] Denotes mean number of days greater than 0 but less than .05

^{**} Statistics not computed because less than six years out of thirty had measurable precipitation

⁽¹⁾ From the 1971-2000 Monthly Normals

⁽²⁾ Derived from station's available digital record: 1948-2001

⁽³⁾ Derived from 1971-2000 serially complete daily data

Climatography of the United States No. 20 1971-2000

National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801 www.ncdc.noaa.gov

COOP ID: 340193

Station: ALVA, OK

Climate Division: OK 3 NWS Call Sign:

Elevation: 1,395 Feet

Lat: 36°49N Lon: 98°39W

| | | | | | | | | | | Snov | w (incl | hes) | | | | | | | | | | | | | |
|-------|----------------------|------------------------|-----------------------|-------------------------|----------------------------------|-------------|-------|------------------------------------|-------------|--------------------------|-------------|------|---|-------------|--|-----|-----|------|------|--------|---------------|-----|----|--|--|
| | | | | | | Sno | ow To | tals | | | | | | | | | Mea | n Nu | mber | of Day | ys (1) | | | | |
| | Mean | s/Medi | ans (1) | 1 | | | | | Extre | mes (2) | | | | | Snow Fall Snow Depth >= Thresholds >= Thresholds | | | | | | | | | | |
| Month | Snow Fall Mean | Snow Fall Median | Snow Depth Mean | Snow Depth Median | Highest Daily Snow Fall | Year | Day | Highest Monthly Snow Fall | Year | Highest Daily Snow Depth | Year | Day | Highest Monthly Mean Snow Depth | Year | 0.1 | 1.0 | 3.0 | 5.0 | 10.0 | 1 | 3 | 5 | 10 | | |
| Jan | 2.1 | 2.0 | # | 0 | 6.0 | 1993 | 10 | 6.5 | 1995 | 5+ | 2000 | 28 | 3 | 1979 | 1.1 | 1.0 | .2 | .1 | .0 | 1.4 | .8 | .1 | .0 | | |
| Feb | 3.4 | 1.0 | 1 | 0 | 13.0 | 1971 | 22 | 18.0 | 1971 | 13 | 1971 | 22 | 3 | 1978 | 1.3 | 1.0 | .4 | .2 | @ | 1.7 | 1.1 | .7 | .2 | | |
| Mar | 2.1 | .0 | # | 0 | 6.0 | 1998 | 19 | 9.0 | 1998 | 8 | 1999 | 14 | 1 | 1999 | .7 | .6 | .3 | .1 | .0 | .9 | .4 | .3 | .0 | | |
| Apr | .6 | .0 | # | 0 | 8.0 | 1973 | 8 | 10.0 | 1973 | 4 | 1973 | 9 | # | 1973 | .1 | .1 | .1 | @ | .0 | .0 | .0 | .0 | .0 | | |
| May | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | |
| Jun | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | |
| Jul | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | |
| Aug | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | |
| Sep | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | |
| Oct | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | |
| Nov | .9 | .0 | # | 0 | 6.0 | 1972 | 18 | 9.0 | 1972 | 7 | 1972 | 19 | 1 | 1972 | .4 | .4 | .1 | .1 | .0 | .7 | .4 | .2 | .0 | | |
| Dec | 2.4 | 2.6 | # | 0 | 7.0 | 1999 | 5 | 7.0 | 1999 | 7 | 1999 | 5 | 1 | 1999 | 1.3 | .9 | .4 | .1 | .0 | 1.4 | .2 | .1 | .0 | | |
| Ann | 11.5 | 5.6 | N/A | N/A | 13.0 | Feb 1971 | 22 | 18.0 | Feb 1971 | 13 | Feb 1971 | 22 | 3+ | Jan 1979 | 4.9 | 4.0 | 1.5 | .6 | @ | 6.1 | 2.9 | 1.4 | .2 | | |

⁺ Also occurred on an earlier date(s) #Denotes trace amounts

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[@] Denotes mean number of days greater than 0 but less than .05

^{-9/-9.9} represents missing values Annual statistics for Mean/Median snow depths are not appropriate

⁽¹⁾ Derived from Snow Climatology and 1971-2000 daily data

⁽²⁾ Derived from 1971-2000 daily data

Climatography of the United States No. 20 1971-2000

National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801 www.ncdc.noaa.gov

COOP ID: 340193

Lon: 98°39W

Lat: 36°49N

Station: ALVA, OK

Climate Division: OK 3

NWS Call Sign:

Elevation: 1,395 Feet

| | | | Freez | e Data | | | | | | | | | | |
|---|--|---|---------------------|--------------------|--|---------------------------------|--|---------------------------------|--|--|--|--|--|--|
| | | Spri | ng Freeze Da | ates (Month/ | Day) | | | | | | | | | |
| | P | robability of | later date ii | n spring (thr | u Jul 31) tha | n indicated(| *) | | | | | | | |
| .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | | | | | | |
| 5/01 | 4/26 | 4/23 | 4/20 | 4/17 | 4/14 | 4/11 | 4/07 | 4/02 | | | | | | |
| 4/19 | 4/15 | 4/12 | 4/09 | 4/07 | 4/04 | 4/01 | 3/29 | 3/25 | | | | | | |
| 4/11 | 4/06 | 4/03 | 3/31 | 3/28 | 3/26 | 3/23 | 3/19 | 3/15 | | | | | | |
| 4/01 | 3/26 | 3/21 | 3/17 | 3/13 | 3/10 | 3/06 | 3/01 | 2/22 | | | | | | |
| 3/27 | 3/19 | 3/12 | 3/07 | 3/02 | 2/25 | 2/19 | 2/13 | 2/04 | | | | | | |
| 3/17 | 3/08 | 3/01 | 2/24 | 2/18 | 2/13 | 2/08 | 2/01 | 1/23 | | | | | | |
| | • | Fal | l Freeze Dat | es (Month/D | ay) | | | | | | | | | |
| Probability of earlier date in fall (beginning Aug 1) than indicated(*) | | | | | | | | | | | | | | |
| .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | | | | | | |
| 9/27 | 10/03 | 10/07 | 10/11 | 10/15 | 10/18 | 10/22 | 10/27 | 11/02 | | | | | | |
| 10/13 | 10/18 | 10/22 | 10/25 | 10/28 | 10/31 | 11/04 | 11/07 | 11/13 | | | | | | |
| 10/21 | 10/27 | 11/01 | 11/04 | 11/08 | 11/11 | 11/15 | 11/19 | 11/25 | | | | | | |
| 10/29 | 11/05 | 11/10 | 11/14 | 11/18 | 11/21 | 11/26 | 11/30 | 12/07 | | | | | | |
| 11/07 | 11/14 | 11/19 | 11/23 | 11/27 | 12/01 | 12/05 | 12/10 | 12/17 | | | | | | |
| 11/16 | 11/23 | 11/27 | 12/01 | 12/05 | 12/09 | 12/13 | 12/18 | 12/25 | | | | | | |
| | | | Freeze F | ree Period | | | | | | | | | | |
| | | Probability | of longer tha | an indicated | freeze free p | eriod (Days) | | | | | | | | |
| .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | | | | | | |
| 206 | 197 | 191 | 185 | 180 | 175 | 170 | 163 | 154 | | | | | | |
| 225 | 218 | 213 | 208 | 204 | 200 | 195 | 190 | 183 | | | | | | |
| | 1 | | | | | | | | | | | | | |
| | 5/01 4/19 4/11 4/01 3/27 3/17 .10 9/27 10/13 10/21 10/29 11/07 11/16 .10 206 | .10 .20 5/01 4/26 4/19 4/15 4/11 4/06 4/01 3/26 3/27 3/19 3/17 3/08 Pro .10 .20 9/27 10/03 10/13 10/18 10/21 10/27 10/29 11/05 11/07 11/14 11/16 11/23 .10 .20 206 197 | Probability of .10 | Spring Freeze Date | Probability of later date in spring (through the content of the co | Spring Freeze Dates (Month/Day) | Spring Freeze Dates (Month/Day) Probability of later date in spring (thru Jul 31) than indicated | Spring Freeze Dates (Month/Day) | | | | | | |

254

276

296

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

259

283

303

Complete documentation available from:

237

257

276

275

301

322

266

290

311

24

20

16

231

249

267

222

238

256

248

270

289

243

263

283

^{*} Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

Climatography of the United States No. 20 1971-2000

National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801 www.ncdc.noaa.gov

Station: ALVA, OK

COOP ID: 340193

Climate Division: OK 3 NWS Call Sign: Elevation: 1,395 Feet Lat: 36°49N Lon: 98°39W

| | | | | Deg | ree Days t | o Selected | Base Tem | peratures | (°F) | | | | |
|-------|------|-----|-----|-----|------------|------------|------------|-----------|------|-----|-----|-----|------|
| Base | | | | | | Heatin | g Degree l | Days (1) | | | | | |
| Below | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann |
| 65 | 1025 | 768 | 578 | 274 | 69 | 4 | 0 | 1 | 29 | 190 | 605 | 940 | 4483 |
| 60 | 872 | 637 | 430 | 165 | 25 | 0 | 0 | 0 | 8 | 89 | 457 | 785 | 3468 |
| 57 | 781 | 560 | 344 | 113 | 11 | 0 | 0 | 0 | 3 | 49 | 374 | 692 | 2927 |
| 55 | 722 | 510 | 291 | 85 | 6 | 0 | 0 | 0 | 0 | 32 | 321 | 631 | 2598 |
| 50 | 579 | 393 | 178 | 34 | 1 | 0 | 0 | 0 | 0 | 7 | 204 | 486 | 1882 |
| 32 | 179 | 107 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 103 | 410 |

| Base | | | | | | Coolin | g Degree l | Days (1) | | | | | |
|-------|-----|-----|-----|-----|------|--------|------------|----------|------|-----|-----|-----|------|
| Above | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann |
| 32 | 177 | 267 | 454 | 741 | 1093 | 1357 | 1578 | 1516 | 1210 | 862 | 398 | 186 | 9839 |
| 55 | 7 | 25 | 22 | 135 | 386 | 667 | 865 | 803 | 520 | 180 | 17 | 1 | 3628 |
| 57 | 4 | 19 | 14 | 104 | 329 | 607 | 803 | 741 | 463 | 136 | 9 | 0 | 3229 |
| 60 | 1 | 13 | 7 | 66 | 250 | 517 | 710 | 648 | 378 | 83 | 3 | 0 | 2676 |
| 65 | 0 | 0 | 0 | 24 | 139 | 371 | 555 | 494 | 249 | 29 | 0 | 0 | 1861 |
| 70 | 0 | 0 | 0 | 7 | 62 | 236 | 400 | 346 | 147 | 7 | 0 | 0 | 1205 |

| | | | | | | | | | | Gro | wing 1 | Degre | e Uni | ts (2) | | | | | | | | | | |
|-------|--|-----|-----|-----|--------|----------|----------|-----------|------|-----|--------|-------|---|--------|-----|------|------|------|------|------|------|------|------|------|
| Base | | | | | Growin | g Degree | Units (M | (Ionthly) | | | | | Growing Degree Units (Accumulated Monthly) | | | | | | | | | | | |
| | Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec | | | | | | | | | | | | | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 40 | 62 | 150 | 327 | 577 | 886 | 1152 | 1359 | 1313 | 1016 | 675 | 257 | 79 | 62 | 212 | 539 | 1116 | 2002 | 3154 | 4513 | 5826 | 6842 | 7517 | 7774 | 7853 |
| 45 | 26 78 209 431 731 1002 1204 1158 866 523 149 | | | | | | | | | | | | 26 | 104 | 313 | 744 | 1475 | 2477 | 3681 | 4839 | 5705 | 6228 | 6377 | 6409 |
| 50 | 2 37 119 292 576 852 1049 1003 716 379 81 | | | | | | | | | | | 6 | 2 | 39 | 158 | 450 | 1026 | 1878 | 2927 | 3930 | 4646 | 5025 | 5106 | 5112 |
| 55 | 0 | 9 | 59 | 174 | 424 | 702 | 894 | 848 | 569 | 245 | 34 | 1 | 0 | 9 | 68 | 242 | 666 | 1368 | 2262 | 3110 | 3679 | 3924 | 3958 | 3959 |
| 60 | 0 | 1 | 25 | 93 | 277 | 552 | 739 | 693 | 428 | 139 | 12 | 0 | 0 | 1 | 26 | 119 | 396 | 948 | 1687 | 2380 | 2808 | 2947 | 2959 | 2959 |
| Base | Growing Degree Units for Corn (Monthly) | | | | | | | | | | | | Growing Degree Units for Corn (Accumulated Monthly) | | | | | | | | | | | |
| 50/86 | 58 118 223 366 570 757 878 849 662 430 167 660 | | | | | | | | | | | | 58 | 176 | 399 | 765 | 1335 | 2092 | 2970 | 3819 | 4481 | 4911 | 5078 | 5144 |

(1) Derived from the 1971-2000 Monthly Normals

(2) Derived from 1971-2000 serially complete daily data

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Notes

- a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.
- b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.
 - c. Only observed validated values were used to select the extreme daily values.
 - d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.

Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.

e. Degree Days were derived using the same techniques as the 1971-2000 normals.

Compete documentation for the 1971-2000 Normals is available on the internet from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set .

Documentation of the serially complete data set is available from the link below:

g. Snowfall and snow depth statistics were derived from the Snow Climatology.

Documentation for the Snow Climatology project is available from the link under references.

Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were are for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

- a. Temperature/ Precipitation Tables
 - 1. 1971-2000 Monthly Normals
 - 2. Cooperative Summary of the Day
 - 3. National Weather Service station records
 - 4. 1971-2000 serially complete daily data

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

1971-2000 serially complete daily data

- b. Degree Day Table
 - 1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
 - 2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html

U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html

Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html

Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,

www1.ncdc.noaa.gov/pub/data/special/ serialcomplete_jam_0900.pdf