

2004

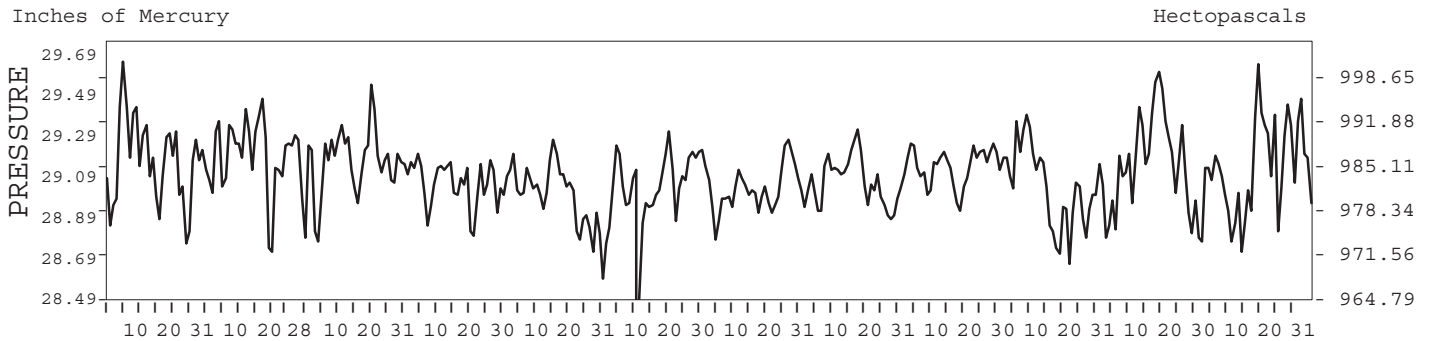
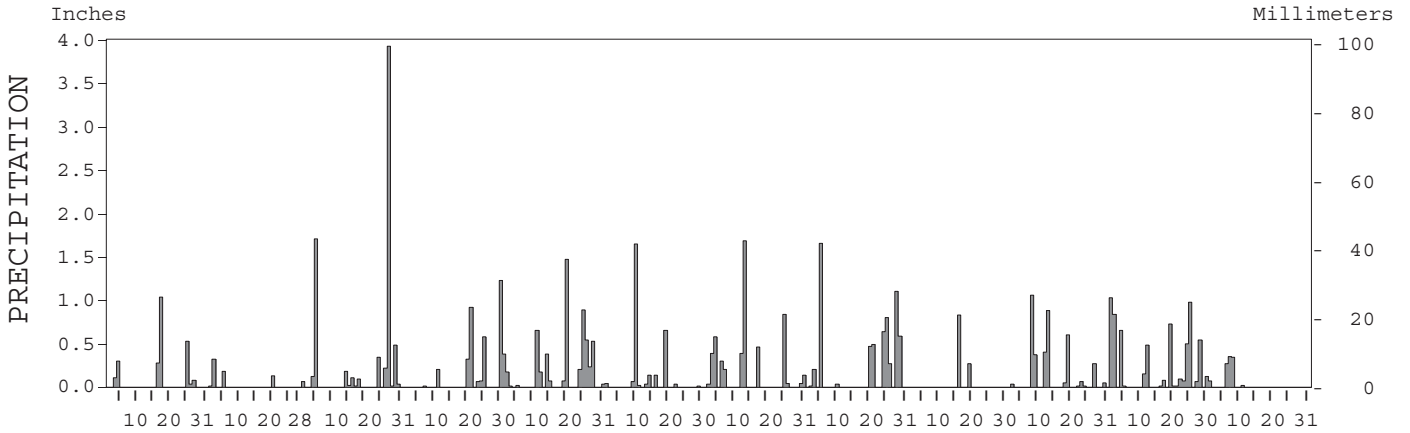
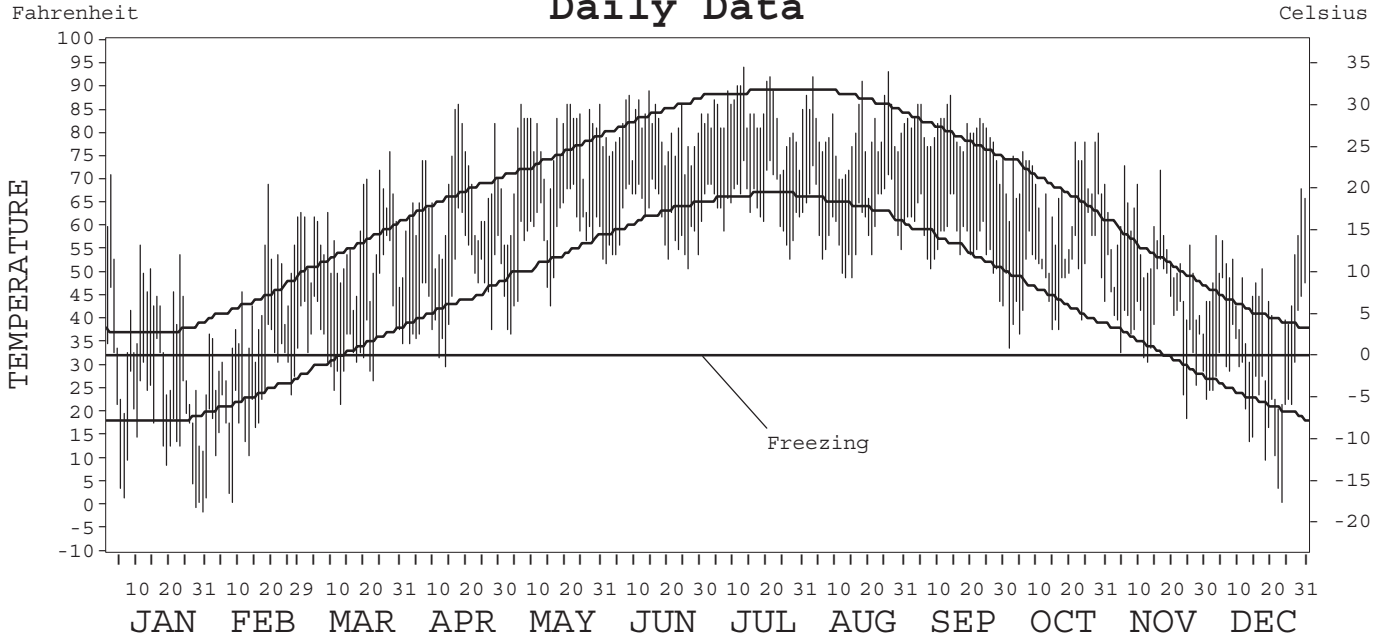
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2834

COLUMBIA,
MISSOURI (COU)

Daily Data



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Thomas R. Karl

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| NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION | NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE | NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA | DIRECTOR NATIONAL CLIMATIC DATA CENTER |
|---|---|---|---|

METEOROLOGICAL DATA FOR 2004

COLUMBIA, MO (COU)

LATITUDE: 38° 49' 01" N LONGITUDE: 92° 13' 06" W ELEVATION (FT): GRND: 881 BARO: 884 TIME ZONE: CENTRAL (UTC + 6) WBAN: 03945

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|--------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|---|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 36.9 | 41.7 | 56.7 | 66.9 | 76.2 | 80.2 | 83.3 | 79.8 | 80.3 | 67.4 | 54.3 | 44.7 | 64.0 | |
| | HIGHEST DAILY MAXIMUM | 71 | 69 | 76 | 86 | 86 | 89 | 94 | 93 | 88 | 80 | 73 | 68 | 94 | |
| | DATE OF OCCURRENCE | 02 | 19 | 27 | 17 | 30+ | 14 | 13 | 26 | 14 | 29 | 06 | 30 | JUL 13 | |
| | MEAN DAILY MINIMUM | 18.3 | 23.4 | 37.2 | 46.0 | 56.6 | 60.5 | 65.0 | 60.5 | 57.0 | 49.0 | 39.2 | 26.0 | 44.9 | |
| | LOWEST DAILY MINIMUM | -1 | 1 | 22 | 30 | 37 | 51 | 53 | 49 | 43 | 34 | 19 | 1 | -1 | |
| | DATE OF OCCURRENCE | 30 | 08 | 12 | 13 | 03 | 26 | 27 | 15+ | 30 | 02 | 25 | 24 | JAN 30 | |
| | AVERAGE DRY BULB | 27.6 | 32.6 | 47.0 | 56.5 | 66.4 | 70.4 | 74.2 | 70.2 | 68.7 | 58.2 | 46.8 | 35.4 | 54.5 | |
| | MEAN WET BULB | | 29.6 | 42.4 | 50.2 | 62.3 | | 69.0 | 65.1 | 62.0 | 53.4 | 43.5 | 31.9 | | |
| | MEAN DEW POINT | | 24.8 | 36.5 | 43.9 | 59.6 | | 66.4 | 62.4 | 57.6 | 48.7 | 39.9 | 25.7 | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 8 |
| | MAXIMUM ≤ 32° | 11 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 23 | |
| MINIMUM ≤ 32° | 26 | 22 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 24 | 90 | | |
| MINIMUM ≤ 0° | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | | |
| H/C | HEATING DEGREE DAYS | 1150 | 933 | 555 | 278 | 92 | 3 | 0 | 19 | 18 | 223 | 540 | 911 | 4722 | |
| | COOLING DEGREE DAYS | 0 | 0 | 2 | 27 | 144 | 171 | 293 | 184 | 135 | 18 | 0 | 0 | 974 | |
| RH | MEAN (PERCENT) | 73 | 75 | 71 | 65 | 80 | 75 | 79 | 79 | 71 | 74 | 80 | 70 | 74 | |
| | HOUR 00 LST | 79 | 78 | 76 | 72 | 87 | 87 | 89 | 87 | 81 | 80 | 83 | 72 | 81 | |
| | HOUR 06 LST | 80 | 82 | 83 | 82 | 92 | 88 | 91 | 93 | 90 | 85 | 86 | 80 | 86 | |
| | HOUR 12 LST | 65 | 67 | 62 | 55 | 71 | 62 | 67 | 65 | 55 | 62 | 74 | 62 | 64 | |
| | HOUR 18 LST | 71 | 68 | 63 | 56 | 71 | 64 | 69 | 70 | 61 | 71 | 76 | 65 | 67 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 1 | 2 | 3 | 0 | 6 | 2 | 2 | 6 | 2 | 3 | 3 | 0 | 30 | |
| | THUNDERSTORMS | 1 | 0 | 1 | 3 | 13 | 5 | 8 | 7 | 3 | 4 | 0 | 0 | 45 | |
| CLOUDINESS | SUNRISE-SUNSET: (OKTAS) | | | | | | | | | | | | | | |
| | CEILOMETER (≤ 12,000 FT.) | | | | | | | | | | | | | | |
| | SATELLITE (> 12,000 FT.) | | | | | | | | | | | | | | |
| | MIDNIGHT-MIDNIGHT: (OKTAS) | | | | | | | | | | | | | | |
| | CEILOMETER (≤ 12,000 FT.) | | | | | | | | | | | | | | |
| SATELLITE (> 12,000 FT.) | | | | | | | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| CLEAR | | | | | | | | | | | | | | | |
| PARTLY CLOUDY | | | | | | | | | | | | | | | |
| CLOUDY | | | | | | | | | | | | | | | |
| PR | MEAN STATION PRESS. (IN.) | 29.16 | 29.19 | 29.16 | 29.05 | 28.99 | | 29.02 | 29.08 | 29.13 | 29.01 | 29.16 | 29.14 | | |
| | MEAN SEA-LEVEL PRESS. (IN.) | | 30.18 | 30.12 | 30.01 | 29.93 | | 29.96 | 30.02 | 30.08 | 29.97 | 30.13 | 30.12 | | |
| WINDS | RESULTANT SPEED (MPH) | 1.3 | 1.0 | 2.8 | 1.3 | 5.1 | | 0.9 | 1.4 | 3.6 | 1.8 | 1.8 | | | |
| | RES. DIR. (TENS OF DEGS.) | 30 | 19 | 22 | 20 | 19 | | 24 | 17 | 12 | 15 | 06 | | | |
| | MEAN SPEED (MPH) | 9.9 | 10.4 | 11.8 | 10.8 | 9.8 | 7.7 | 6.7 | 7.1 | 7.3 | 9.6 | 9.1 | 10.7 | 9.2 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 18 | 28 | 17 | 17 | 18 | 15 | 17 | 17 | 14 | 12 | 03 | 17 | 17 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 32 | 31 | 41 | 43 | 38 | 31 | 32 | 43 | 21 | 30 | 31 | 33 | 43 | |
| | DIR. (TENS OF DEGS.) | 23 | 16 | 22 | 25 | 31 | 22 | 29 | 18 | 19 | 21 | 02 | 20 | 18 | |
| | DATE OF OCCURRENCE | 23 | 29 | 01 | 20 | 24 | 10+ | 06 | 24 | 23+ | 29+ | 24 | 30 | AUG 24 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 39 | 39 | 49 | 52 | 47 | 38 | 44 | 49 | 26 | 37 | 39 | 40 | 52 | |
| DIR. (TENS OF DEGS.) | 22 | 16 | 22 | 25 | 31 | 17 | 27 | 18 | 19 | 21 | 01 | 20 | 25 | | |
| DATE OF OCCURRENCE | 23 | 29 | 01 | 20 | 24 | 08 | 06 | 24 | 23 | 29 | 24 | 30 | APR 20 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 2.37 | 0.70 | 7.25 | 3.77 | 5.47 | 2.73 | 5.10 | 6.26 | 1.10 | 4.82 | 5.40 | 0.98 | 45.95 | |
| | GREATEST 24-HOUR (IN.) | 1.04 | 0.33 | 3.94 | 1.60 | 1.54 | 1.70 | 2.08 | 1.66 | 0.83 | 1.39 | 1.85 | 0.69 | 3.94 | |
| | DATE OF OCCURRENCE | 17 | 01-02 | 26-27 | 29-30 | 18-19 | 08-09 | 11-12 | 04 | 15 | 07-08 | 31-01 | 06-07 | MAR 26-27 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 7 | 5 | 13 | 9 | 16 | 9 | 12 | 11 | 2 | 13 | 18 | 4 | 119 | |
| PRECIPITATION ≥ 0.10 | 5 | 3 | 8 | 6 | 10 | 4 | 9 | 9 | 2 | 7 | 9 | 3 | 75 | | |
| PRECIPITATION ≥ 1.00 | 1 | 0 | 2 | 1 | 1 | 1 | 1 | 2 | 0 | 2 | 0 | 0 | 11 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 2.4 | 1.2 | T | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 0.0 | 8.8 | |
| | GREATEST 24-HOUR (IN.) | 1.2 | 0.9 | T | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 0.0 | 4.7 | |
| | DATE OF OCCURRENCE | 27 | 05 | 16 | | 10 | | | | | | 24 | | NOV 24 | |
| | MAXIMUM SNOW DEPTH (IN.) | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | |
| | DATE OF OCCURRENCE | 29+ | 08+ | | | | | | | | | 25 | | NOV 25 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | | |

NORMALS, MEANS, AND EXTREMES

COLUMBIA, MO (COU)

LATITUDE: 38° 49' 01" N LONGITUDE: 92° 13' 06" W ELEVATION (FT): GRND: 881 BARO: 884 TIME ZONE: CENTRAL (UTC + 6) WBAN: 03945

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 37.4 | 43.9 | 55.1 | 65.9 | 74.6 | 83.6 | 88.6 | 87.3 | 79.1 | 68.0 | 53.4 | 41.5 | 64.9 |
| | MEAN DAILY MAXIMUM | 35 | 36.5 | 43.0 | 54.0 | 65.6 | 74.1 | 82.8 | 88.3 | 86.9 | 78.9 | 67.2 | 52.9 | 41.3 | 64.3 |
| | HIGHEST DAILY MAXIMUM | 35 | 74 | 82 | 85 | 90 | 92 | 103 | 111 | 110 | 101 | 93 | 83 | 76 | 111 |
| | YEAR OF OCCURRENCE | | 1989 | 1972 | 1986 | 1987 | 1998 | 1988 | 1980 | 1984 | 1971 | 1981 | 1978 | 1991 | JUL 1980 |
| | MEAN OF EXTREME MAXS. | 35 | 59.7 | 68.0 | 78.4 | 84.2 | 86.5 | 92.7 | 97.6 | 98.1 | 92.3 | 84.8 | 73.8 | 64.4 | 81.7 |
| | NORMAL DAILY MINIMUM | 30 | 18.2 | 23.4 | 33.0 | 42.9 | 52.8 | 61.8 | 66.3 | 64.0 | 55.4 | 44.1 | 33.0 | 22.5 | 43.1 |
| | MEAN DAILY MINIMUM | 35 | 19.3 | 24.4 | 33.6 | 44.0 | 53.4 | 62.2 | 67.0 | 65.0 | 56.6 | 45.3 | 34.5 | 24.2 | 44.1 |
| | LOWEST DAILY MINIMUM | 35 | -19 | -15 | -5 | 19 | 29 | 40 | 48 | 42 | 29 | 22 | 0 | -20 | -20 |
| | YEAR OF OCCURRENCE | | 1982 | 1979 | 1978 | 1975 | 1976 | 1993 | 1975 | 1986 | 2003 | 1993 | 1991 | 1989 | DEC 1989 |
| | MEAN OF EXTREME MINS. | 35 | -2.6 | 2.4 | 14.6 | 27.9 | 39.2 | 50.0 | 56.1 | 54.4 | 40.0 | 29.6 | 17.4 | 4.0 | 27.8 |
| | NORMAL DRY BULB | 30 | 27.8 | 33.7 | 44.0 | 54.4 | 63.7 | 72.7 | 77.4 | 75.7 | 67.3 | 56.0 | 43.2 | 32.0 | 54.0 |
| | MEAN DRY BULB | 35 | 27.9 | 33.7 | 43.8 | 54.9 | 63.8 | 72.5 | 77.6 | 76.0 | 67.8 | 56.4 | 43.7 | 32.7 | 54.2 |
| | MEAN WET BULB | 18 | 27.1 | 31.1 | 39.0 | 48.8 | 59.0 | 66.6 | 67.0 | 69.0 | 60.9 | 48.1 | 39.4 | 30.5 | 48.9 |
| | MEAN DEW POINT | 18 | 21.8 | 25.4 | 32.3 | 42.2 | 54.8 | 63.2 | 63.9 | 65.4 | 56.7 | 43.4 | 34.1 | 25.6 | 44.1 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 4.8 | 14.1 | 12.0 | 4.2 | 0.1 | 0.0 | 0.0 | 35.6 | |
| MAXIMUM ≤ 32° | 30 | 12.0 | 6.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 7.4 | 29.0 | |
| MINIMUM ≤ 32° | 30 | 27.1 | 21.0 | 14.6 | 3.3 | * | 0.0 | 0.0 | 0.0 | * | 2.5 | 13.7 | 24.9 | 107.1 | |
| MINIMUM ≤ 0° | 30 | 2.7 | 1.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | 1.4 | 5.6 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1153 | 891 | 656 | 336 | 115 | 10 | 1 | 2 | 72 | 291 | 642 | 1008 | 5177 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 3 | 18 | 70 | 245 | 396 | 341 | 152 | 20 | 1 | 0 | 1246 |
| RH | NORMAL (PERCENT) | 30 | 74 | 72 | 67 | 66 | 72 | 73 | 72 | 73 | 72 | 70 | 72 | 75 | 72 |
| | HOUR 00 LST | 30 | 76 | 76 | 72 | 71 | 80 | 83 | 83 | 83 | 81 | 77 | 77 | 78 | 78 |
| | HOUR 06 LST | 30 | 80 | 81 | 79 | 79 | 86 | 87 | 88 | 89 | 88 | 85 | 82 | 82 | 84 |
| | HOUR 12 LST | 30 | 67 | 64 | 58 | 56 | 61 | 60 | 58 | 57 | 58 | 57 | 63 | 69 | 61 |
| | HOUR 18 LST | 30 | 70 | 66 | 58 | 55 | 61 | 62 | 60 | 61 | 64 | 62 | 68 | 71 | 63 |
| S | PERCENT POSSIBLE SUNSHINE | 27 | 50 | 49 | 50 | 55 | 57 | 64 | 67 | 64 | 60 | 59 | 47 | 45 | 56 |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 35 | 3.0 | 2.6 | 2.0 | 1.3 | 1.7 | 1.1 | 1.5 | 1.9 | 1.5 | 1.6 | 1.6 | 3.3 | 23.1 |
| | THUNDERSTORMS | 35 | 0.7 | 1.0 | 2.8 | 5.3 | 8.2 | 7.7 | 7.7 | 6.8 | 4.7 | 3.2 | 1.8 | 0.9 | 50.8 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 1 | | | 6.4 | | | 4.8 | | | | | | 8.8 | |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 1 | | | 5.6 | | | | | | | | | | |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| CLEAR | 1 | 1.0 | 2.0 | 4.0 | | 7.0 | 12.0 | | | | | | | | |
| PARTLY CLOUDY | 1 | 2.0 | 2.0 | 4.0 | | 2.0 | 5.0 | | | | | | | | |
| CLOUDY | 1 | 3.0 | 3.0 | 12.0 | | 8.0 | 7.0 | | | | | | | | |
| PR | MEAN STATION PRESSURE (IN) | 29 | 29.10 | 29.09 | 29.01 | 29.00 | 29.00 | 29.00 | 29.00 | 29.10 | 29.10 | 29.11 | 29.10 | 29.11 | 29.06 |
| | MEAN SEA-LEVEL PRES. (IN) | 17 | 30.14 | 30.11 | 30.03 | 29.94 | 29.95 | 30.01 | 29.99 | 30.01 | 30.02 | 30.07 | 30.07 | 30.13 | 30.04 |
| WINDS | MEAN SPEED (MPH) | 30 | 10.8 | 10.6 | 11.6 | 11.4 | 9.2 | 8.5 | 8.0 | 7.7 | 8.5 | 9.3 | 10.5 | 10.6 | 9.7 |
| | PREVAIL. DIR (TENS OF DEGS) | 29 | 30 | 30 | 31 | 18 | 18 | 18 | 18 | 18 | 18 | 16 | 18 | 30 | 18 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 9 | 41 | 41 | 41 | 54 | 39 | 44 | 44 | 59 | 38 | 47 | 45 | 37 | 59 |
| | DIR. (TENS OF DEGS) | | 23 | 24 | 22 | 23 | 36 | 31 | 25 | 01 | 27 | 25 | 19 | 06 | 01 |
| | YEAR OF OCCURRENCE | | 1996 | 2001 | 2004 | 2002 | 2000 | 1998 | 2003 | 2003 | 2003 | 1996 | 1998 | 1997 | AUG 2003 |
| | MAXIMUM 5-SECOND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 9 | 49 | 51 | 49 | 68 | 48 | 52 | 55 | 81 | 46 | 59 | 53 | 45 | 81 |
| DIR. (TENS OF DEGS) | | 23 | 24 | 22 | 33 | 10 | 30 | 25 | 36 | 27 | 25 | 24 | 30 | 36 | |
| YEAR OF OCCURRENCE | | 1996 | 2001 | 2004 | 2001 | 2003 | 1998 | 2003 | 2003 | 2003 | 1996 | 1998 | 2003 | AUG 2003 | |
| PRECIPITATION | NORMAL (IN) | 30 | 1.73 | 2.20 | 3.21 | 4.16 | 4.87 | 4.02 | 3.80 | 3.75 | 3.42 | 3.18 | 3.47 | 2.47 | 40.28 |
| | MAXIMUM MONTHLY (IN) | 35 | 4.78 | 6.18 | 10.09 | 11.69 | 12.31 | 10.28 | 12.14 | 9.10 | 12.06 | 7.28 | 10.42 | 6.96 | 12.31 |
| | YEAR OF OCCURRENCE | | 1995 | 1985 | 1973 | 1994 | 1995 | 1985 | 1981 | 2000 | 1993 | 1998 | 1985 | 1982 | MAY 1995 |
| | MINIMUM MONTHLY (IN) | 35 | 0.05 | 0.11 | 0.78 | 0.89 | 1.43 | 0.35 | 0.24 | 0.21 | 0.45 | 1.03 | 0.42 | 0.48 | 0.05 |
| | YEAR OF OCCURRENCE | | 1986 | 1991 | 1971 | 2000 | 1998 | 1980 | 1976 | 1979 | 1992 | 1989 | 1996 | 1996 | JAN 1986 |
| | MAXIMUM IN 24 HOURS (IN) | 35 | 2.06 | 2.88 | 4.03 | 4.50 | 5.73 | 3.87 | 5.95 | 5.43 | 3.81 | 4.94 | 2.97 | 2.88 | 5.95 |
| | YEAR OF OCCURRENCE | | 2001 | 1985 | 1990 | 1996 | 1995 | 1995 | 1989 | 1993 | 1986 | 1998 | 1983 | 1982 | JUL 1989 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 7.9 | 8.5 | 10.8 | 11.1 | 12.1 | 9.1 | 8.5 | 8.1 | 8.4 | 8.9 | 9.6 | 8.9 | 111.9 | |
| PRECIPITATION ≥ 1.00 | 30 | 0.2 | 0.5 | 0.7 | 0.9 | 1.1 | 1.2 | 1.1 | 1.2 | 0.9 | 0.8 | 1.0 | 0.6 | 10.2 | |
| SNOWFALL | NORMAL (IN) | 30 | 7.3 | 7.3 | 3.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.* | 2.4 | 4.6 | 25.7 | |
| | MAXIMUM MONTHLY (IN) | 31 | 23.5 | 20.2 | 18.0 | 7.1 | T | T | T | T | 0.0 | 0.1 | 8.3 | 17.8 | 23.5 |
| | YEAR OF OCCURRENCE | | 1979 | 1993 | 1978 | 1980 | 1990 | 1990 | 1995 | 2003 | | 1976 | 1971 | 1973 | JAN 1979 |
| | MAXIMUM IN 24 HOURS (IN) | 31 | 19.7 | 12.7 | 8.8 | 7.1 | T | T | T | T | 0.0 | 0.1 | 8.1 | 12.7 | 19.7 |
| | YEAR OF OCCURRENCE | | 1995 | 1993 | 1990 | 1980 | 1990 | 1990 | 1995 | 2003 | | 1976 | 1975 | 1987 | JAN 1995 |
| | MAXIMUM SNOW DEPTH (IN) | 30 | 13 | 14 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 13 | 14 |
| | YEAR OF OCCURRENCE | | 1995 | 1993 | 1978 | 1980 | | | | | | | 1975 | 1987 | FEB 1993 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 30 | 2.1 | 2.0 | 1.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.4 | 7.4 | |

PRECIPITATION (inches) 2004 COLUMBIA, MO (COU)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|-------|-------|-------|-------|------|-------|------|-------|------|--------|
| 1975 | 3.38 | 2.96 | 3.23 | 4.29 | 4.00 | 3.83 | 0.55 | 8.18 | 5.60 | 2.06 | 3.57 | 2.48 | 44.13 |
| 1976 | 0.94 | 2.36 | 4.39 | 2.21 | 3.68 | 1.79 | 0.24 | 0.21 | 0.47 | 6.12 | 0.88 | 0.59 | 23.88 |
| 1977 | 1.44 | 1.23 | 3.64 | 2.70 | 4.31 | 5.24 | 1.62 | 2.26 | 6.66 | 4.39 | 1.80 | 1.23 | 36.52 |
| 1978 | 0.67 | 1.57 | 5.44 | 5.80 | 6.77 | 2.50 | 4.56 | 2.01 | 1.11 | 1.73 | 3.24 | 2.51 | 37.91 |
| 1979 | 2.43 | 1.40 | 2.94 | 5.06 | 3.30 | 2.69 | 2.97 | 2.80 | 0.45 | 4.40 | 2.26 | 1.36 | 32.06 |
| 1980 | 0.63 | 1.42 | 2.71 | 2.42 | 3.36 | 0.35 | 1.39 | 2.98 | 1.93 | 4.35 | 1.00 | 1.12 | 23.66 |
| 1981 | 0.88 | 1.09 | 1.33 | 5.47 | 7.71 | 8.02 | 12.14 | 2.48 | 0.68 | 4.03 | 3.60 | 1.10 | 48.53 |
| 1982 | 3.16 | 1.23 | 3.23 | 2.51 | 5.33 | 5.03 | 3.31 | 8.96 | 4.33 | 1.82 | 2.20 | 6.96 | 48.07 |
| 1983 | 0.28 | 0.45 | 2.74 | 9.06 | 4.94 | 3.82 | 1.97 | 3.27 | 3.20 | 4.96 | 8.87 | 2.72 | 46.28 |
| 1984 | 0.30 | 3.18 | 4.48 | 7.23 | 3.46 | 6.87 | 5.29 | 0.88 | 5.58 | 4.55 | 3.89 | 4.99 | 50.70 |
| 1985 | 1.13 | 6.18 | 3.18 | 2.89 | 5.04 | 10.28 | 1.91 | 6.14 | 2.08 | 2.74 | 10.42 | 3.38 | 55.37 |
| 1986 | 0.05 | 4.10 | 1.16 | 2.67 | 5.33 | 1.98 | 3.43 | 3.01 | 9.58 | 6.02 | 2.31 | 2.05 | 41.69 |
| 1987 | 2.04 | 0.90 | 1.82 | 1.87 | 2.78 | 2.24 | 5.24 | 3.17 | 2.92 | 1.75 | 3.35 | 5.48 | 33.56 |
| 1988 | 1.57 | 2.23 | 4.09 | 1.97 | 2.45 | 0.47 | 2.26 | 4.14 | 2.32 | 1.25 | 4.35 | 3.42 | 30.52 |
| 1989 | 1.32 | 1.57 | 2.95 | 1.94 | 4.84 | 3.23 | 7.36 | 7.24 | 1.54 | 1.44 | 0.42 | 0.78 | 34.63 |
| 1990 | 1.97 | 3.86 | 7.22 | 2.84 | 10.51 | 7.20 | 6.00 | 3.95 | 0.93 | 2.58 | 3.07 | 3.49 | 53.62 |
| 1991 | 1.56 | 0.11 | 2.13 | 4.45 | 4.17 | 2.36 | 3.23 | 3.86 | 3.43 | 3.81 | 3.09 | 2.72 | 34.92 |
| 1992 | 0.52 | 1.96 | 3.82 | 1.83 | 1.57 | 1.64 | 5.40 | 1.61 | 4.25 | 1.03 | 8.10 | 2.64 | 34.37 |
| 1993 | 2.37 | 1.99 | 2.14 | 5.54 | 4.81 | 7.28 | 10.16 | 8.37 | 12.06 | 2.05 | 4.20 | 1.52 | 62.49 |
| 1994 | 0.82 | 2.15 | 1.31 | 11.69 | 2.39 | 2.87 | 1.51 | 4.08 | 1.01 | 4.16 | 5.38 | 0.90 | 38.27 |
| 1995 | 4.78 | 1.80 | 0.96 | 7.19 | 12.31 | 6.05 | 4.84 | 4.55 | 1.59 | 1.15 | 1.30 | 1.72 | 48.24 |
| 1996 | 2.90 | 0.37 | 2.37 | 6.49 | 6.52 | 2.35 | 3.50 | 1.76 | 5.70 | 2.86 | 4.69 | 0.48 | 39.99 |
| 1997 | 2.35 | 4.85 | 1.86 | 2.70 | 5.78 | 3.16 | 0.42 | 5.50 | 2.30 | 3.11 | 3.34 | 1.79 | 37.16 |
| 1998 | 1.42 | 4.30 | 4.60 | 5.07 | 1.43 | 7.05 | 5.58 | 0.43 | 4.40 | 7.28 | 1.87 | 1.22 | 44.65 |
| 1999 | 3.00 | 2.15 | 2.49 | 5.15 | 3.88 | 3.32 | 1.85 | 0.83 | 1.43 | 1.31 | 1.00 | 3.36 | 29.77 |
| 2000 | 0.77 | 3.39 | 2.11 | 0.89 | 5.55 | 5.44 | 4.07 | 9.10 | 1.75 | 3.60 | 1.74 | 0.87 | 39.28 |
| 2001 | 2.69 | 4.41 | 1.09 | 3.40 | 6.37 | 5.24 | 3.98 | 3.23 | 3.01 | 4.03 | 1.61 | 1.45 | 40.51 |
| 2002 | 2.58 | 0.62 | 1.61 | 4.69 | 10.08 | 3.30 | 2.32 | 8.49 | 1.60 | 4.02 | 0.91 | 2.08 | 42.30 |
| 2003 | 0.88 | 1.40 | 2.81 | 4.37 | 4.93 | 5.58 | 1.07 | 3.03 | 7.76 | 2.13 | 2.00 | 3.47 | 39.43 |
| 2004 | 2.37 | 0.70 | 7.25 | 3.77 | 5.47 | 2.73 | 5.10 | 6.26 | 1.10 | 4.82 | 5.40 | 0.98 | 45.95 |
| POR= 113 YRS | 1.84 | 1.90 | 3.00 | 3.84 | 4.82 | 4.48 | 3.58 | 3.68 | 4.06 | 2.98 | 2.53 | 2.01 | 38.72 |

WBAN : 03945

AVERAGE TEMPERATURE (°F) 2004 COLUMBIA, MO (COU)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1975 | 31.4 | 28.9 | 37.3 | 52.5 | 65.0 | 72.3 | 76.2 | 75.7 | 62.6 | 57.6 | 47.1 | 35.2 | 53.5 |
| 1976 | 28.6 | 42.6 | 46.5 | 55.2 | 59.2 | 70.1 | 77.9 | 75.3 | 67.8 | 49.8 | 34.8 | 27.2 | 52.9 |
| 1977 | 13.6 | 32.9 | 47.2 | 58.3 | 68.0 | 73.5 | 79.3 | 77.0 | 70.2 | 55.6 | 45.1 | 30.8 | 54.3 |
| 1978 | 20.4 | 21.7 | 37.7 | 56.7 | 62.7 | 73.5 | 79.1 | 76.8 | 74.2 | 56.1 | 46.5 | 34.2 | 53.3 |
| 1979 | 15.9 | 23.1 | 44.3 | 53.1 | 64.1 | 72.2 | 76.1 | 75.4 | 67.7 | 57.5 | 41.5 | 35.9 | 52.2 |
| 1980 | 29.3 | 26.6 | 39.0 | 52.2 | 64.3 | 75.3 | 87.0 | 81.7 | 69.9 | 53.5 | 43.3 | 33.8 | 54.7 |
| 1981 | 29.0 | 33.4 | 44.5 | 61.0 | 59.1 | 74.4 | 78.1 | 74.8 | 68.3 | 55.0 | 46.7 | 29.6 | 54.5 |
| 1982 | 22.4 | 30.6 | 45.3 | 51.0 | 66.2 | 68.4 | 78.4 | 73.6 | 66.2 | 56.2 | 44.2 | 39.6 | 53.5 |
| 1983 | 31.9 | 38.1 | 43.6 | 48.2 | 60.4 | 71.7 | 79.7 | 82.1 | 69.4 | 56.5 | 45.5 | 17.6 | 53.7 |
| 1984 | 27.6 | 40.0 | 36.7 | 52.5 | 60.8 | 74.4 | 75.5 | 78.8 | 66.2 | 58.4 | 43.3 | 38.5 | 54.4 |
| 1985 | 19.9 | 27.5 | 48.2 | 58.8 | 64.5 | 69.0 | 76.6 | 72.5 | 67.5 | 58.4 | 42.3 | 24.5 | 52.5 |
| 1986 | 33.6 | 32.7 | 48.2 | 58.2 | 66.0 | 76.0 | 80.2 | 71.7 | 71.4 | 57.2 | 39.3 | 34.6 | 55.8 |
| 1987 | 29.6 | 39.8 | 47.4 | 55.5 | 69.1 | 75.6 | 79.2 | 77.1 | 67.7 | 51.6 | 46.2 | 35.9 | 56.2 |
| 1988 | 27.7 | 28.1 | 43.8 | 54.1 | 66.1 | 75.2 | 78.6 | 79.0 | 69.5 | 51.1 | 45.3 | 34.0 | 54.4 |
| 1989 | 38.1 | 23.2 | 43.7 | 54.9 | 61.6 | 70.2 | 76.4 | 74.2 | 63.5 | 57.7 | 43.7 | 21.5 | 52.4 |
| 1990 | 39.5 | 38.3 | 46.3 | 53.1 | 59.5 | 73.2 | 75.5 | 75.2 | 70.6 | 55.3 | 50.3 | 31.7 | 55.7 |
| 1991 | 25.9 | 39.9 | 48.7 | 57.8 | 70.2 | 75.9 | 77.9 | 76.7 | 67.4 | 57.3 | 39.1 | 37.0 | 56.2 |
| 1992 | 35.2 | 40.1 | 46.5 | 55.0 | 62.1 | 70.3 | 75.2 | 70.3 | 66.0 | 56.8 | 40.7 | 33.4 | 54.3 |
| 1993 | 29.5 | 29.3 | 39.9 | 51.5 | 63.4 | 72.4 | 78.3 | 76.9 | 62.7 | 52.9 | 40.0 | 34.6 | 52.6 |
| 1994 | 24.6 | 31.5 | 45.7 | 54.8 | 62.9 | 75.3 | 75.2 | 74.5 | 66.2 | 57.7 | 47.8 | 37.7 | 54.5 |
| 1995 | 26.9 | 34.5 | 46.4 | 53.1 | 60.8 | 73.0 | 78.2 | 80.7 | 64.5 | 57.5 | 39.9 | 31.8 | 53.9 |
| 1996 | 26.3 | 35.0 | 38.2 | 52.1 | 65.6 | 72.2 | 74.3 | 75.1 | 64.8 | 56.3 | 37.9 | 33.3 | 52.6 |
| 1997 | 25.2 | 36.4 | 45.8 | 48.9 | 58.7 | 71.1 | 77.3 | 74.8 | 68.2 | 56.7 | 40.5 | 33.4 | 53.1 |
| 1998 | 34.8 | 40.8 | 40.8 | 53.8 | 69.7 | 73.1 | 76.9 | 77.0 | 72.6 | 57.7 | 48.3 | 35.2 | 56.7 |
| 1999 | 28.3 | 41.6 | 41.6 | 56.4 | 63.6 | 72.2 | 80.0 | 75.7 | 66.8 | 56.7 | 51.8 | 36.2 | 55.9 |
| 2000 | 31.7 | 42.0 | 47.2 | 54.0 | 67.1 | 70.3 | 75.8 | 78.5 | 67.9 | 59.9 | 38.7 | 19.8 | 54.4 |
| 2001 | 29.3 | 33.3 | 39.9 | 61.4 | 65.1 | 71.2 | 78.4 | 76.8 | 66.2 | 55.4 | 50.8 | 37.5 | 55.4 |
| 2002 | 34.4 | 37.0 | 40.2 | 56.5 | 60.3 | 74.1 | 78.8 | 77.1 | 70.2 | 51.6 | 41.1 | 35.1 | 54.7 |
| 2003 | 25.5 | 29.7 | 44.5 | 56.7 | 63.1 | 69.2 | 77.4 | 79.1 | 64.3 | 56.7 | 46.0 | 36.0 | 54.0 |
| 2004 | 27.6 | 32.6 | 47.0 | 56.5 | 66.4 | 70.4 | 74.2 | 70.2 | 68.7 | 58.2 | 46.8 | 35.4 | 54.5 |
| POR= 115 YRS | 29.6 | 33.2 | 43.3 | 54.9 | 64.4 | 73.4 | 77.9 | 76.4 | 68.7 | 57.5 | 44.1 | 33.2 | 54.7 |

HEATING DEGREE DAYS (base 65°F) 2004 COLUMBIA, MO (COU)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-------|
| 1975-76 | 2 | 0 | 149 | 254 | 528 | 916 | 1121 | 644 | 566 | 307 | 193 | 2 | 4682 |
| 1976-77 | 0 | 0 | 43 | 487 | 898 | 1169 | 1587 | 891 | 548 | 209 | 40 | 0 | 5872 |
| 1977-78 | 0 | 0 | 14 | 287 | 591 | 1053 | 1378 | 1206 | 842 | 260 | 161 | 3 | 5795 |
| 1978-79 | 0 | 0 | 21 | 280 | 552 | 949 | 1515 | 1169 | 633 | 360 | 94 | 0 | 5573 |
| 1979-80 | 2 | 4 | 34 | 261 | 698 | 897 | 1101 | 1108 | 803 | 389 | 92 | 3 | 5392 |
| 1980-81 | 0 | 0 | 56 | 368 | 640 | 962 | 1110 | 878 | 630 | 159 | 211 | 0 | 5014 |
| 1981-82 | 0 | 0 | 32 | 326 | 544 | 1089 | 1314 | 955 | 607 | 416 | 40 | 25 | 5348 |
| 1982-83 | 0 | 3 | 88 | 297 | 619 | 783 | 1018 | 750 | 656 | 501 | 159 | 14 | 4888 |
| 1983-84 | 0 | 0 | 84 | 271 | 575 | 1466 | 1153 | 720 | 871 | 383 | 155 | 0 | 5678 |
| 1984-85 | 0 | 0 | 125 | 213 | 646 | 814 | 1391 | 1042 | 518 | 225 | 63 | 16 | 5053 |
| 1985-86 | 0 | 2 | 99 | 210 | 674 | 1249 | 964 | 897 | 521 | 227 | 53 | 0 | 4896 |
| 1986-87 | 0 | 15 | 13 | 251 | 765 | 937 | 1093 | 699 | 539 | 307 | 19 | 0 | 4638 |
| 1987-88 | 0 | 2 | 29 | 409 | 560 | 898 | 1150 | 1064 | 653 | 323 | 37 | 2 | 5127 |
| 1988-89 | 4 | 2 | 16 | 434 | 583 | 955 | 828 | 1164 | 660 | 356 | 169 | 14 | 5185 |
| 1989-90 | 0 | 2 | 122 | 244 | 635 | 1342 | 781 | 740 | 590 | 390 | 172 | 13 | 5031 |
| 1990-91 | 7 | 1 | 39 | 311 | 435 | 1027 | 1205 | 698 | 511 | 221 | 49 | 0 | 4504 |
| 1991-92 | 0 | 0 | 110 | 254 | 771 | 861 | 918 | 717 | 567 | 320 | 136 | 15 | 4669 |
| 1992-93 | 0 | 13 | 88 | 264 | 722 | 973 | 1094 | 995 | 775 | 396 | 87 | 27 | 5434 |
| 1993-94 | 0 | 4 | 117 | 375 | 743 | 935 | 1244 | 930 | 592 | 327 | 107 | 3 | 5377 |
| 1994-95 | 0 | 5 | 79 | 248 | 514 | 843 | 1173 | 848 | 567 | 357 | 153 | 0 | 4787 |
| 1995-96 | 0 | 0 | 122 | 236 | 747 | 1019 | 1191 | 863 | 823 | 392 | 106 | 23 | 5522 |
| 1996-97 | 0 | 0 | 90 | 274 | 805 | 975 | 1228 | 792 | 589 | 477 | 212 | 15 | 5457 |
| 1997-98 | 3 | 0 | 29 | 309 | 727 | 971 | 930 | 673 | 757 | 332 | 32 | 35 | 4798 |
| 1998-99 | 0 | 0 | 6 | 236 | 490 | 918 | 1131 | 650 | 718 | 269 | 76 | 17 | 4511 |
| 1999-00 | 0 | 0 | 77 | 264 | 389 | 884 | 1024 | 663 | 546 | 327 | 68 | 13 | 4255 |
| 2000-01 | 0 | 0 | 68 | 191 | 791 | 1393 | 1099 | 880 | 769 | 178 | 82 | 20 | 5471 |
| 2001-02 | 0 | 0 | 67 | 300 | 421 | 846 | 943 | 777 | 762 | 295 | 176 | 1 | 4588 |
| 2002-03 | 0 | 0 | 23 | 437 | 714 | 920 | 1217 | 983 | 625 | 272 | 93 | 36 | 5320 |
| 2003-04 | 0 | 0 | 84 | 254 | 568 | 894 | 1150 | 933 | 555 | 278 | 92 | 3 | 4811 |
| 2004- | 0 | 19 | 18 | 223 | 540 | 911 | | | | | | | |

WBAN : 03945

COOLING DEGREE DAYS (base 65°F) 2004 COLUMBIA, MO (COU)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1975 | 0 | 0 | 0 | 9 | 73 | 235 | 355 | 339 | 83 | 32 | 0 | 0 | 1126 |
| 1976 | 0 | 0 | 0 | 22 | 21 | 160 | 409 | 326 | 130 | 22 | 0 | 0 | 1090 |
| 1977 | 0 | 0 | 0 | 14 | 140 | 261 | 450 | 377 | 177 | 4 | 0 | 0 | 1423 |
| 1978 | 0 | 0 | 1 | 16 | 99 | 266 | 444 | 373 | 305 | 11 | 5 | 0 | 1520 |
| 1979 | 0 | 0 | 0 | 10 | 73 | 224 | 357 | 337 | 125 | 39 | 0 | 0 | 1165 |
| 1980 | 0 | 0 | 0 | 13 | 78 | 319 | 688 | 523 | 211 | 17 | 0 | 0 | 1849 |
| 1981 | 0 | 0 | 1 | 44 | 34 | 285 | 413 | 308 | 138 | 19 | 0 | 0 | 1242 |
| 1982 | 0 | 0 | 0 | 4 | 84 | 134 | 422 | 274 | 127 | 32 | 3 | 0 | 1080 |
| 1983 | 0 | 0 | 0 | 3 | 23 | 223 | 460 | 536 | 222 | 14 | 0 | 0 | 1481 |
| 1984 | 0 | 0 | 0 | 15 | 30 | 287 | 331 | 436 | 166 | 14 | 0 | 1 | 1280 |
| 1985 | 0 | 0 | 7 | 46 | 56 | 143 | 367 | 243 | 180 | 13 | 0 | 0 | 1055 |
| 1986 | 0 | 0 | 10 | 31 | 90 | 337 | 479 | 231 | 212 | 15 | 0 | 0 | 1405 |
| 1987 | 0 | 0 | 0 | 29 | 151 | 324 | 447 | 384 | 113 | 0 | 3 | 0 | 1451 |
| 1988 | 0 | 0 | 2 | 1 | 78 | 317 | 433 | 442 | 159 | 12 | 0 | 0 | 1444 |
| 1989 | 0 | 0 | 6 | 63 | 73 | 176 | 364 | 293 | 83 | 25 | 2 | 0 | 1085 |
| 1990 | 0 | 0 | 17 | 37 | 10 | 264 | 342 | 326 | 214 | 18 | 1 | 0 | 1229 |
| 1991 | 0 | 0 | 12 | 11 | 219 | 338 | 405 | 371 | 190 | 22 | 0 | 0 | 1568 |
| 1992 | 0 | 0 | 0 | 27 | 53 | 181 | 326 | 184 | 126 | 18 | 0 | 0 | 915 |
| 1993 | 0 | 0 | 2 | 0 | 46 | 259 | 419 | 379 | 56 | 6 | 0 | 0 | 1167 |
| 1994 | 0 | 0 | 1 | 26 | 48 | 319 | 322 | 305 | 120 | 28 | 4 | 0 | 1173 |
| 1995 | 0 | 0 | 0 | 6 | 30 | 249 | 416 | 495 | 114 | 11 | 0 | 0 | 1321 |
| 1996 | 0 | 2 | 0 | 10 | 134 | 246 | 306 | 320 | 91 | 12 | 0 | 0 | 1121 |
| 1997 | 0 | 0 | 0 | 0 | 24 | 208 | 389 | 311 | 130 | 57 | 0 | 0 | 1119 |
| 1998 | 0 | 0 | 14 | 4 | 186 | 282 | 375 | 379 | 240 | 15 | 0 | 0 | 1495 |
| 1999 | 0 | 0 | 0 | 19 | 41 | 239 | 475 | 336 | 140 | 17 | 0 | 0 | 1267 |
| 2000 | 0 | 0 | 1 | 4 | 140 | 180 | 340 | 430 | 161 | 42 | 7 | 0 | 1305 |
| 2001 | 0 | 0 | 0 | 76 | 91 | 213 | 425 | 373 | 108 | 8 | 0 | 0 | 1294 |
| 2002 | 0 | 0 | 0 | 48 | 36 | 282 | 435 | 383 | 187 | 30 | 0 | 0 | 1401 |
| 2003 | 0 | 0 | 0 | 28 | 42 | 169 | 391 | 441 | 72 | 5 | 3 | 0 | 1151 |
| 2004 | 0 | 0 | 2 | 27 | 144 | 171 | 293 | 184 | 135 | 18 | 0 | 0 | 974 |

SNOWFALL (inches) 2004 COLUMBIA, MO (COU)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-------|
| 1975-76 | 0.0 | 0.0 | 0.0 | 0.0 | 8.1 | 4.2 | 6.3 | 6.1 | 5.7 | 0.0 | 0.0 | 0.0 | 30.4 |
| 1976-77 | 0.0 | 0.0 | 0.0 | 0.1 | 1.3 | 3.3 | 19.9 | 9.4 | 0.8 | 0.2 | 0.0 | 0.0 | 35.0 |
| 1977-78 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 5.8 | 8.7 | 17.5 | 18.0 | 0.0 | 0.0 | 0.0 | 54.9 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | T | 5.0 | 23.5 | 7.0 | 4.9 | T | 0.0 | 0.0 | 40.4 |
| 1979-80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | T | 3.8 | 11.8 | 8.3 | 7.1 | 0.0 | 0.0 | 31.1 |
| 1980-81 | 0.0 | 0.0 | 0.0 | T | 5.8 | 1.6 | 1.4 | 8.8 | T | 0.0 | 0.0 | 0.0 | 17.6 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | T | 10.4 | 6.8 | 11.7 | T | 3.0 | 0.0 | 0.0 | 31.9 |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | T | 1.2 | 1.9 | 0.7 | T | 0.0 | 0.0 | 4.0 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 11.7 | 2.5 | 9.8 | 7.2 | 0.0 | 0.0 | 0.0 | 32.3 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 1.6 | 14.8 | 7.1 | T | 0.0 | 0.0 | 0.0 | 26.2 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 3.0 | T | 8.5 | T | T | 0.0 | 0.0 | 11.7 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 21.2 | T | T | 0.0 | 0.0 | 0.0 | 21.2 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 16.1 | 1.4 | 10.5 | 4.0 | 0.0 | 0.0 | 0.0 | 33.0 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 3.6 | 3.7 | 13.3 | 8.1 | | | | |
| 1989-90 | | | 0.0 | | 0.5 | 6.9 | 0.7 | 6.3 | 8.8 | 0.0 | T | T | |
| 1990-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 6.1 | 8.0 | 0.2 | T | 0.0 | 0.0 | 0.0 | 14.5 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 0.7 | 2.0 | 3.5 | 1.9 | T | 0.0 | 0.0 | 13.6 |
| 1992-93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.4 | 7.4 | 20.2 | 2.2 | T | 0.0 | 0.0 | 31.8 |
| 1993-94 | 0.0 | 0.0 | 0.0 | T | 1.2 | 0.8 | 2.8 | 2.5 | 0.7 | 1.4 | 0.0 | 0.0 | 9.4 |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 21.6 | 2.3 | 2.2 | T | 0.0 | 0.0 | 27.3 |
| 1995-96 | T | 0.0 | 0.0 | 0.0 | 2.3 | 6.9 | 8.6 | 1.3 | 0.7 | T | 0.0 | 0.0 | 19.8 |
| 1996-97 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.1 | 15.2 | 1.1 | T | T | 0.0 | 0.0 | 18.4 |
| 1997-98 | 0.0 | 0.0 | 0.0 | T | 0.2 | 6.6 | 1.0 | T | 6.4 | 2.5 | 0.0 | 0.0 | 16.7 |
| 1998-99 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 10.5 | 1.5 | T | 0.0 | 0.0 | 0.0 | 13.0 |
| 1999-00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 6.1 | 0.1 | 7.4 | T | 0.0 | 0.0 | 13.8 |
| 2000-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | 0.2 | 2.7 | T | 0.0 | 0.0 | 0.0 | 11.7 |
| 2001-02 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 4.0 | T | 4.8 | 0.0 | 0.0 | 0.0 | 8.8 |
| 2002-03 | 0.0 | 0.0 | 0.0 | 0.0 | T | 6.2 | 7.1 | 4.2 | 0.0 | T | 0.0 | 0.0 | 17.5 |
| 2003-04 | 0.0 | T | 0.0 | 0.0 | 0.0 | 8.7 | 2.4 | 1.2 | T | 0.0 | T | 0.0 | 12.3 |
| 2004- | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 0.0 | | | | | | | |
| POR= 53 YRS | T | 0.0 | 0.0 | 0.0 | 1.8 | 4.1 | 5.8 | 5.4 | 3.6 | 0.7 | T | T | 21.4 |

WBAN : 03945

REFERENCE NOTES :

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| <p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p> | <p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> |
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2004
COLUMBIA,
MISSOURI (COU)

Columbia, Missouri, with its interior continental location, experiences moderately cold winters and warm summers that are often humid.

There are usually a few days of temperatures below zero during the winter months, but there have been several winters when the temperature did not get this cold. Periods of cold weather are usually interrupted by periods of at least a few mild days. It is not uncommon to find some days with temperatures in the 60s in the midst of the winter months. Some snow falls each winter, but it is very unlikely that a snow cover will persist for more than three weeks. Most of the time when snow does fall, it stays on the ground for less than a week. March is the month in which substantial amounts of snowfall are most likely.

Temperatures of 100 degrees or more occur in most summers, but there have been several summers when temperatures failed to reach this high. The late spring and early summer months produce more frequent and larger amounts of rain than the other months of the year. Thus, in addition to being warm, these months are often quite humid. By late summer smaller amounts of rain fall and rains occur less frequently, so by mid-August, the moisture in the top 2 feet of soil is often depleted.

The average occurrence of the last temperature as cold as 32 degrees in spring is early April, and the first 32 degree temperature in the fall occurs in late October.

STATION LOCATION

COLUMBIA, MISSOURI

| LOCATION | Occupied From | Occupied To | Airline Distances and Directions from previous Location | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE | | | | | | | | | | AUTOMATIC OBSERVING EQUIPMENT * | * TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS |
|---|---------------|-------------|---|----------------|----------------|-----------------|-----------------|----------------------|--------------|-----------------|----------------|----------------|-------------------|------------|---|---------------------------------|--|
| | | | | | | GROUND | | | | | | | | | | | |
| | | | | | | SEA LEVEL | WIND INSTRUMENT | EXTREME THERMOMETERS | PSYCHROMETER | SUNSHINE SWITCH | TIPPING BUCKET | WINDHOLE GAUGE | 8 INCH RAIN GAUGE | HYGROMETER | | | |
| *NOTE: <u>AIRPORT</u> Columbia Regional Airport | 10/15/69 | 09/01/95 | 13.5 mi SSE | 38°49' | 92°13' | f880 h887 | 20 | 5 | 5 | 21 | 4 i3 | 5 14 | 4 i3 | g4 j5 | f. Thermometer site data source through 11/30/69. g. Commissioned on field site 12/1/69. h. Effective 12/1/69. i. Minor adjustment 7/1980. j. Minor move & type change 10/5/84. | | |
| Columbia Regional Airport | 09/01/95 | Present | NA | 38°49' | 92°13' | k881 | | | | | | | | S | ASOS Commissioned 09/01/95 k. Ground elevation. | | |

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* NOTES: For earlier station history see previous editions.