

1999

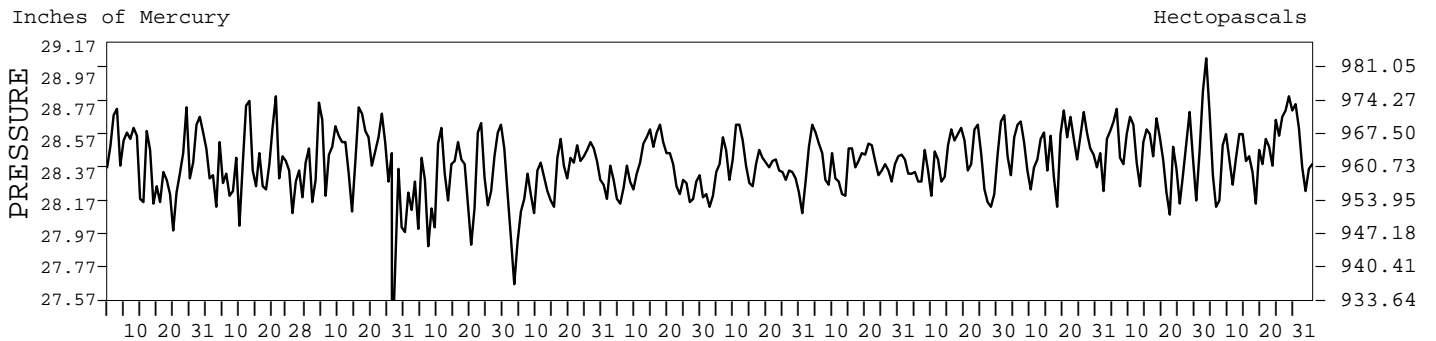
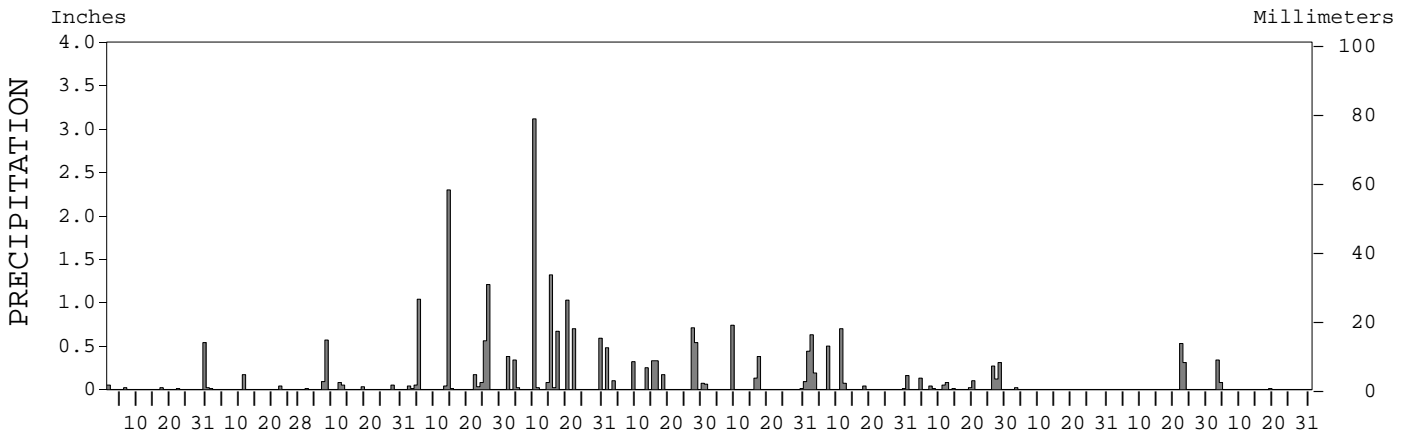
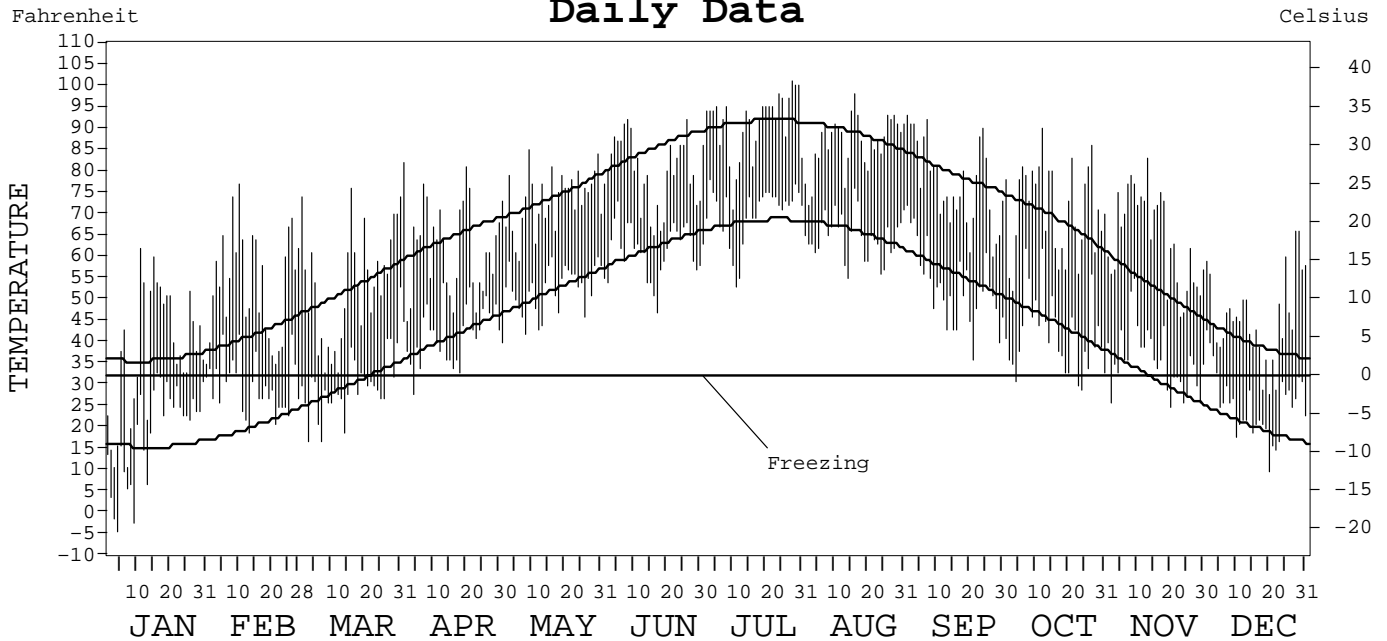
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2133

CONCORDIA,
KANSAS (CNK)

Daily Data



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

Thomas R. Karl

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

METEOROLOGICAL DATA FOR 1999

CONCORDIA, KS (CNK)

LATITUDE: 39° 32' 57" N LONGITUDE: 97° 39' 07" W ELEVATION (FT): GRND: 1469 BARO: 1469 TIME ZONE: CENTRAL (UTC + 6) WBAN: 13984

| | ELEMENT | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------------|-------------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|----|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 37.8 | 54.3 | 53.6 | 62.3 | 73.5 | 79.8 | 90.9 | 86.7 | 77.1 | 71.2 | 64.2 | 45.7 | 66.4 | |
| | HIGHEST DAILY MAXIMUM | 62 | 77 | 76 | 82 | 85 | 92 | 101 | 98 | 93 | 90 | 83 | 66 | 101 | |
| | DATE OF OCCURRENCE | 11 | 10 | 16 | 01 | 09 | 26 | 28 | 16 | 01 | 12 | 13 | 29+ | JUL 28 | |
| | MEAN DAILY MINIMUM | 19.4 | 29.8 | 30.2 | 42.1 | 52.2 | 61.4 | 69.9 | 64.7 | 53.1 | 41.9 | 35.9 | 25.4 | 43.8 | |
| | LOWEST DAILY MINIMUM | -4 | 19 | 17 | 28 | 40 | 47 | 53 | 55 | 36 | 29 | 25 | 10 | -4 | |
| | DATE OF OCCURRENCE | 04 | 13 | 07+ | 04 | 01 | 17 | 11 | 14 | 21 | 24 | 20 | 20 | JAN 04 | |
| | AVERAGE DRY BULB | 28.6 | 42.1 | 41.9 | 52.2 | 62.9 | 70.6 | 80.4 | 75.7 | 65.1 | 56.6 | 50.1 | 35.6 | 55.2 | |
| | MEAN WET BULB | 25.4 | 35.9 | | 47.2 | 56.8 | | 71.4 | 68.4 | 57.3 | 46.8 | 41.9 | 31.6 | | |
| | MEAN DEW POINT | 20.0 | 28.5 | | 42.2 | 51.8 | | 67.0 | 64.5 | 51.6 | 36.5 | 32.2 | 25.3 | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 0 | 0 | 4 | 20 | 11 | 5 | 1 | 0 | 0 | 0 | 41 |
| | MAXIMUM ≤ 32° | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | |
| | MINIMUM ≤ 32° | 30 | 18 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 10 | 27 | 113 | |
| | MINIMUM ≤ 0° | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| H/C | HEATING DEGREE DAYS | 1120 | 636 | 707 | 375 | 96 | 20 | 0 | 0 | 96 | 277 | 442 | 909 | 4678 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 36 | 194 | 487 | 340 | 109 | 24 | 2 | 0 | 1192 | |
| RH | MEAN (PERCENT) | 73 | 64 | 63 | 72 | 69 | 77 | 66 | 71 | 65 | 51 | 55 | 69 | 66 | |
| | HOUR 00 LST | 76 | 69 | 69 | 80 | 77 | 85 | 74 | 78 | 75 | 61 | 62 | 72 | 73 | |
| | HOUR 06 LST | 80 | 78 | 79 | 85 | 84 | 91 | 83 | 90 | 84 | 71 | 73 | 79 | 81 | |
| | HOUR 12 LST | 67 | 55 | 51 | 61 | 58 | 68 | 55 | 58 | 52 | 37 | 41 | 60 | 55 | |
| | HOUR 18 LST | 70 | 53 | 51 | 63 | 57 | 63 | 51 | 54 | 50 | 39 | 46 | 65 | 55 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 8 | |
| | THUNDERSTORMS | 0 | 0 | 1 | 4 | 11 | 9 | 10 | 11 | 10 | 1 | 0 | 0 | 57 | |
| 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.) | 28.47 | 28.41 | | 28.33 | 28.33 | 28.39 | 28.40 | 28.44 | 28.46 | 28.53 | 28.54 | 28.51 | | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.09 | 30.00 | | 29.89 | 29.87 | | 29.92 | 29.97 | | | 30.11 | 30.10 | | |
| WINDS | RESULTANT SPEED (MPH) | 2.0 | 2.4 | | 1.2 | 3.8 | 6.5 | 9.3 | 2.5 | 3.4 | 2.0 | 3.7 | 2.8 | | |
| | RES. DIR. (TENS OF DEGS.) | 33 | 23 | | 36 | 18 | 16 | 18 | 14 | 17 | 20 | 22 | 27 | | |
| | MEAN SPEED (MPH) | 9.9 | 11.8 | 11.2 | 13.0 | 12.1 | 10.8 | 12.5 | 9.1 | 9.4 | 10.8 | 10.3 | 10.3 | 10.9 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 32 | 18 | 03 | 10 | 16 | 16 | 18 | 16 | 17 | 19 | 18 | 18 | 18 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 33 | 38 | 38 | 45 | 37 | 41 | 36 | 35 | 30 | 33 | 33 | 31 | 45 | |
| | DIR. (TENS OF DEGS.) | 20 | 20 | 19 | 23 | 04 | 31 | 20 | 31 | 20 | 18 | 29 | 33 | 23 | |
| | DATE OF OCCURRENCE | 26 | 10 | 30 | 08 | 30 | 01 | 03 | 17 | 07 | 29+ | 18 | 14 | APR 08 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 44 | 46 | 45 | 54 | 44 | 54 | 44 | 44 | 33 | 43 | 40 | 38 | 54 | |
| DIR. (TENS OF DEGS.) | 19 | 20 | 18 | 21 | 06 | 33 | 20 | 23 | 16 | 19 | 28 | 02 | 33 | | |
| DATE OF OCCURRENCE | 26 | 10 | 30 | 08 | 30+ | 01 | 03 | 07 | 25+ | 29 | 18+ | 27 | JUN 01 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 0.66 | 0.22 | 0.88 | 5.54 | 8.29 | 3.30 | 1.41 | 2.74 | 1.14 | 0.02 | 0.84 | 0.43 | 25.47 | |
| | GREATEST 24-HOUR (IN.) | 0.54 | 0.17 | 0.57 | 2.32 | 3.14 | 0.82 | 0.74 | 0.76 | 0.39 | 0.02 | 0.84 | 0.34 | 3.14 | |
| | DATE OF OCCURRENCE | 30 | 11 | 08 | 13-14 | 10-11 | 27-28 | 09 | 11-12 | 26-27 | 03 | 22-23 | 03 | MAY 10-11 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 6 | 3 | 7 | 12 | 12 | 10 | 6 | 9 | 11 | 1 | 2 | 3 | 82 | |
| PRECIPITATION ≥ 0.10 | 1 | 1 | 1 | 5 | 8 | 9 | 3 | 6 | 5 | 0 | 2 | 1 | 42 | | |
| PRECIPITATION ≥ 1.00 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | | | | | | | | | | | | | | |
| | GREATEST 24-HOUR (IN.) | | | | | | | | | | | | | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | | | | |
| | MAXIMUM SNOW DEPTH (IN.) | | | | | | | | | | | | | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | | | | | | | | | | | | | | | |

NORMALS, MEANS, AND EXTREMES

CONCORDIA, KS (CNK)

LATITUDE: 39° 32' 57" N LONGITUDE: 97° 39' 07" W ELEVATION (FT): GRND: 1469 BARO: 1469 TIME ZONE: CENTRAL (UTC + 6) WBAN: 13984

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 36.0 | 41.7 | 52.5 | 64.4 | 73.8 | 85.0 | 91.2 | 88.4 | 79.0 | 68.1 | 52.1 | 39.3 | 64.3 |
| | MEAN DAILY MAXIMUM | 36 | 36.1 | 42.4 | 53.6 | 64.8 | 74.5 | 84.9 | 90.7 | 88.0 | 79.3 | 68.0 | 51.6 | 40.1 | 64.5 |
| | HIGHEST DAILY MAXIMUM | 37 | 74 | 86 | 88 | 98 | 102 | 109 | 109 | 108 | 106 | 96 | 84 | 82 | 109 |
| | YEAR OF OCCURRENCE | | 1990 | 1972 | 1986 | 1989 | 1998 | 1980 | 1980 | 1983 | 1990 | 1963 | 1980 | 1964 | JUL 1980 |
| | MEAN OF EXTREME MAXS. | 37 | 59.2 | 66.5 | 78.6 | 84.8 | 89.7 | 98.3 | 102.4 | 100.7 | 94.9 | 86.5 | 72.1 | 62.0 | 83.0 |
| | NORMAL DAILY MINIMUM | 30 | 15.7 | 20.3 | 30.0 | 41.2 | 51.9 | 61.9 | 67.8 | 65.5 | 55.7 | 44.0 | 30.8 | 19.8 | 42.0 |
| | MEAN DAILY MINIMUM | 36 | 16.3 | 21.0 | 30.1 | 41.3 | 51.9 | 61.6 | 67.4 | 65.0 | 55.7 | 44.1 | 30.9 | 20.9 | 42.2 |
| | LOWEST DAILY MINIMUM | 37 | -17 | -15 | -7 | 14 | 26 | 41 | 48 | 45 | 29 | 14 | -4 | -26 | -26 |
| | YEAR OF OCCURRENCE | | 1985 | 1979 | 1978 | 1975 | 1967 | 1964 | 1972 | 1964 | 1984 | 1993 | 1976 | 1989 | DEC 1989 |
| | MEAN OF EXTREME MINS. | 37 | -5.0 | 0.6 | 10.5 | 25.1 | 37.1 | 48.8 | 55.9 | 53.6 | 39.3 | 27.1 | 14.1 | 0.8 | 25.7 |
| | NORMAL DRY BULB | 30 | 25.9 | 31.0 | 41.3 | 52.8 | 62.8 | 73.5 | 79.5 | 77.0 | 67.4 | 56.1 | 41.5 | 29.6 | 53.2 |
| | MEAN DRY BULB | 36 | 26.1 | 31.8 | 41.9 | 53.2 | 63.2 | 73.3 | 79.0 | 76.5 | 67.6 | 56.1 | 41.3 | 30.4 | 53.4 |
| | MEAN WET BULB | 40 | 23.4 | 28.0 | 36.5 | 46.4 | 56.4 | 65.0 | 68.6 | 66.9 | 59.5 | 48.8 | 36.6 | 27.3 | 46.9 |
| | MEAN DEW POINT | 40 | 17.6 | 21.8 | 29.6 | 40.1 | 51.6 | 60.6 | 63.8 | 62.5 | 54.6 | 42.3 | 31.1 | 21.9 | 41.5 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | 0.0 | 0.4 | 1.3 | 8.8 | 18.2 | 14.2 | 5.0 | 0.6 | 0.0 | 0.0 | 48.5 | |
| MAXIMUM ≤ 32° | 30 | 11.9 | 8.1 | 2.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 8.9 | 32.9 | |
| MINIMUM ≤ 32° | 30 | 28.8 | 24.2 | 18.4 | 5.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 | 3.0 | 17.4 | 28.2 | 125.4 | |
| MINIMUM ≤ 0° | 30 | 4.2 | 2.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 2.0 | 8.6 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1212 | 952 | 735 | 373 | 149 | 8 | 0 | 0 | 53 | 290 | 705 | 1097 | 5574 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 7 | 81 | 263 | 450 | 377 | 125 | 14 | 0 | 0 | 1317 |
| RH | NORMAL (PERCENT) | 30 | 71 | 69 | 65 | 64 | 68 | 67 | 62 | 65 | 68 | 64 | 70 | 72 | 67 |
| | HOUR 00 LST | 30 | 75 | 75 | 71 | 71 | 76 | 76 | 71 | 72 | 75 | 70 | 75 | 76 | 74 |
| | HOUR 06 LST | 30 | 78 | 79 | 79 | 80 | 84 | 84 | 81 | 83 | 84 | 80 | 81 | 79 | 81 |
| | HOUR 12 LST | 30 | 64 | 62 | 56 | 54 | 57 | 55 | 51 | 54 | 56 | 52 | 60 | 64 | 57 |
| | HOUR 18 LST | 30 | 66 | 61 | 53 | 50 | 54 | 51 | 47 | 49 | 54 | 55 | 64 | 68 | 56 |
| S | PERCENT POSSIBLE SUNSHINE | 33 | 63 | 63 | 65 | 67 | 69 | 76 | 80 | 78 | 71 | 69 | 60 | 59 | 68 |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 36 | 2.4 | 2.5 | 1.7 | 1.2 | 1.1 | 0.5 | 0.6 | 1.1 | 1.4 | 1.4 | 1.8 | 2.5 | 18.2 |
| | THUNDERSTORMS | 36 | 0.2 | 0.4 | 1.9 | 5.3 | 8.8 | 10.6 | 10.5 | 9.2 | 6.2 | 2.5 | 0.9 | 0.2 | 56.7 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 2 | 6.4 | 5.6 | 5.6 | 6.0 | 4.4 | 2.8 | 3.6 | 2.8 | 4.0 | 3.7 | 4.0 | 6.0 | 4.6 |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 1 | 6.4 | 6.0 | 5.2 | 6.0 | 4.4 | 3.2 | 3.6 | 2.8 | 4.0 | 3.6 | 4.0 | 4.0 | 4.4 |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 3 | 6.0 | 8.3 | 10.0 | 7.0 | 10.7 | 13.0 | 11.0 | 16.0 | 7.5 | 10.5 | 7.0 | 9.0 | 116.0 |
| PARTLY CLOUDY | 3 | 2.0 | 4.0 | 2.7 | 4.5 | 4.0 | 5.7 | 7.5 | 3.0 | 2.0 | 3.5 | 4.5 | 4.5 | 47.9 | |
| CLOUDY | 3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2.4 | |
| PR | MEAN STATION PRESSURE (IN) | 26 | 28.52 | 28.49 | 28.38 | 28.36 | 28.35 | 28.36 | 28.41 | 28.43 | 28.45 | 28.47 | 28.46 | 28.51 | 28.43 |
| | MEAN SEA-LEVEL PRES. (IN) | 40 | 30.14 | 30.11 | 29.98 | 29.93 | 29.91 | 29.89 | 29.93 | 29.96 | 29.99 | 30.03 | 30.05 | 30.12 | 30.00 |
| WINDS | MEAN SPEED (MPH) | 20 | 11.9 | 11.9 | 13.6 | 13.6 | 12.0 | 11.3 | 11.2 | 10.7 | 11.4 | 11.6 | 11.9 | 11.4 | 11.9 |
| | PREVAIL. DIR (TENS OF DEGS) | 19 | 36 | 35 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 36 | 18 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 7 | 46 | 44 | 45 | 51 | 41 | 54 | 52 | 41 | 36 | 46 | 41 | 39 | 54 |
| | DIR. (TENS OF DEGS) | | 32 | 18 | 19 | 17 | 20 | 24 | 34 | 20 | 20 | 26 | 32 | 32 | 24 |
| | YEAR OF OCCURRENCE | | 1996 | 1994 | 1996 | 1994 | 1998 | 1997 | 1996 | 1998 | 1994 | 1996 | 1997 | 1997 | JUN 1997 |
| | MAXIMUM 5-SECOND: | | | | | | | | | | | | | | |
| SPEED (MPH) | 7 | 60 | 52 | 54 | 64 | 53 | 62 | 67 | 47 | 51 | 57 | 49 | 48 | 67 | |
| DIR. (TENS OF DEGS) | | 33 | 31 | 20 | 17 | 24 | 22 | 32 | 29 | 21 | 26 | 33 | 32 | 32 | |
| YEAR OF OCCURRENCE | | 1996 | 1996 | 1996 | 1994 | 1998 | 1993 | 1996 | 1993 | 1994 | 1996 | 1997 | 1997 | JUL 1996 | |
| PRECIPITATION | NORMAL (IN) | 30 | 0.58 | 0.75 | 2.20 | 2.31 | 4.29 | 4.49 | 3.65 | 3.54 | 3.01 | 1.99 | 1.13 | 0.84 | 28.78 |
| | MAXIMUM MONTHLY (IN) | 37 | 1.84 | 2.50 | 8.32 | 5.98 | 9.74 | 14.14 | 16.75 | 10.72 | 8.49 | 4.89 | 4.88 | 3.60 | 16.75 |
| | YEAR OF OCCURRENCE | | 1983 | 1971 | 1987 | 1984 | 1970 | 1967 | 1993 | 1977 | 1973 | 1992 | 1971 | 1984 | JUL 1993 |
| | MINIMUM MONTHLY (IN) | 37 | 0.00 | 0.01 | 0.02 | 0.37 | 0.26 | 0.77 | 0.11 | 0.38 | 0.21 | 0.02 | T | T | 0.00 |
| | YEAR OF OCCURRENCE | | 1986 | 1996 | 1968 | 1989 | 1966 | 1996 | 1984 | 1971 | 1991 | 1999 | 1989 | 1976 | JAN 1986 |
| | MAXIMUM IN 24 HOURS (IN) | 37 | 0.93 | 1.24 | 3.49 | 2.64 | 5.15 | 5.46 | 3.94 | 4.56 | 3.18 | 4.15 | 3.20 | 2.61 | 5.46 |
| | YEAR OF OCCURRENCE | | 1998 | 1966 | 1987 | 1987 | 1970 | 1967 | 1971 | 1968 | 1973 | 1979 | 1971 | 1984 | JUN 1967 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 30 | 5.3 | 4.9 | 7.8 | 9.2 | 10.8 | 9.7 | 8.4 | 8.6 | 7.9 | 6.0 | 5.0 | 4.9 | 88.5 |
| PRECIPITATION ≥ 1.00 | 30 | 0.0 | 0.1 | 0.6 | 0.5 | 1.1 | 1.2 | 1.0 | 1.0 | 0.8 | 0.3 | 0.2 | 0.1 | 6.9 | |
| SNOWFALL | NORMAL (IN) | 30 | 5.2 | 5.5 | 3.8 | 0.7 | -1.1 | 0.0 | 0.0 | 0.0 | -1.1 | 0.2 | 2.0 | 4.8 | 20.0 |
| | MAXIMUM MONTHLY (IN) | 34 | 15.8 | 20.6 | 10.7 | 6.1 | 0.2 | T | T | 0.0 | T | 4.6 | 10.1 | 16.7 | 20.6 |
| | YEAR OF OCCURRENCE | | 1993 | 1971 | 1987 | 1983 | 1994 | 1989 | 1992 | 1985 | 1970 | 1972 | 1983 | FEB 1971 | |
| | MAXIMUM IN 24 HOURS (IN) | 34 | 9.3 | 13.2 | 9.1 | 3.8 | 0.2 | T | T | 0.0 | 4.6 | 7.3 | 12.5 | 13.2 | |
| | YEAR OF OCCURRENCE | | 1985 | 1965 | 1987 | 1970 | 1994 | 1989 | 1992 | 1994 | 1985 | 1970 | 1983 | 1966 | FEB 1965 |
| | MAXIMUM SNOW DEPTH (IN) | 37 | 13 | 15 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 14 | 15 |
| | YEAR OF OCCURRENCE | | 1979 | 1983 | 1987 | 1970 | | | | | | 1970 | 1983 | 1983 | FEB 1983 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 30 | 1.9 | 1.6 | 1.4 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.* | 0.6 | 1.6 | 7.4 | |

PRECIPITATION (inches) 1999 CONCORDIA, KS (CNK)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|-------|-------|------|------|------|------|--------|
| 1970 | 0.22 | 0.44 | 1.13 | 2.02 | 9.74 | 2.76 | 3.59 | 1.53 | 4.42 | 2.46 | 0.20 | 0.04 | 28.55 |
| 1971 | 0.76 | 2.50 | 0.77 | 1.18 | 6.47 | 3.98 | 10.17 | 0.38 | 0.74 | 2.74 | 4.88 | 0.71 | 35.28 |
| 1972 | 0.23 | 0.30 | 0.79 | 4.29 | 4.07 | 1.70 | 6.90 | 6.65 | 1.03 | 2.11 | 3.51 | 1.13 | 32.71 |
| 1973 | 1.01 | 0.65 | 7.37 | 2.41 | 3.14 | 1.78 | 8.50 | 2.44 | 8.49 | 4.30 | 1.27 | 3.06 | 44.42 |
| 1974 | 0.33 | 0.01 | 0.68 | 2.26 | 2.35 | 3.78 | 0.21 | 2.37 | 0.55 | 1.98 | 0.84 | 0.46 | 15.82 |
| 1975 | 0.71 | 1.51 | 1.46 | 1.99 | 2.63 | 6.96 | 1.64 | 2.80 | 1.72 | 0.49 | 2.66 | 0.55 | 25.12 |
| 1976 | 0.17 | 0.31 | 2.58 | 4.41 | 1.61 | 1.61 | 1.16 | 0.77 | 2.84 | 1.89 | 0.08 | T | 17.43 |
| 1977 | 0.64 | 0.03 | 2.06 | 2.37 | 6.01 | 5.03 | 2.33 | 10.72 | 2.05 | 2.22 | 1.73 | 0.04 | 35.23 |
| 1978 | 0.20 | 0.71 | 0.96 | 2.70 | 6.33 | 2.13 | 5.94 | 3.54 | 5.08 | 0.52 | 2.04 | 0.21 | 30.36 |
| 1979 | 1.12 | 0.11 | 5.05 | 1.54 | 2.10 | 3.54 | 4.16 | 2.10 | 0.75 | 4.82 | 0.92 | 0.36 | 26.57 |
| 1980 | 1.24 | 1.10 | 3.20 | 1.77 | 2.82 | 1.27 | 0.73 | 3.04 | 1.25 | 1.98 | 0.07 | 0.97 | 19.44 |
| 1981 | 0.14 | 0.07 | 1.30 | 1.85 | 6.98 | 4.68 | 8.02 | 3.61 | 2.75 | 0.84 | 3.22 | 0.21 | 33.67 |
| 1982 | 0.82 | 0.45 | 2.81 | 2.06 | 7.53 | 8.38 | 7.04 | 3.17 | 1.79 | 0.85 | 0.57 | 1.52 | 36.99 |
| 1983 | 1.84 | 1.09 | 3.42 | 1.92 | 2.98 | 3.59 | 0.16 | 2.58 | 1.72 | 3.60 | 1.84 | 0.85 | 25.59 |
| 1984 | 0.27 | 0.55 | 3.09 | 5.98 | 3.98 | 4.36 | 0.11 | 1.85 | 2.50 | 2.20 | 0.24 | 3.60 | 28.73 |
| 1985 | 1.14 | 0.86 | 1.04 | 2.85 | 3.78 | 3.19 | 2.06 | 4.46 | 2.46 | 2.96 | 0.55 | 0.42 | 25.77 |
| 1986 | 0.00 | 1.29 | 2.21 | 3.11 | 3.63 | 5.67 | 4.69 | 7.59 | 6.81 | 3.04 | 0.72 | 1.42 | 40.18 |
| 1987 | 0.55 | 0.93 | 8.32 | 2.90 | 6.06 | 3.51 | 3.45 | 3.42 | 1.55 | 1.94 | 0.72 | 0.79 | 34.14 |
| 1988 | 0.72 | 0.62 | 0.55 | 0.99 | 2.91 | 3.16 | 1.65 | 1.67 | 1.06 | 0.04 | 0.54 | 0.63 | 14.54 |
| 1989 | 0.56 | 0.56 | 0.55 | 0.37 | 4.06 | 5.80 | 1.40 | 5.77 | 4.22 | 1.11 | T | 0.42 | 24.82 |
| 1990 | 0.26 | 0.43 | 4.05 | 1.15 | 6.37 | 3.78 | 3.96 | 1.48 | 1.23 | 1.06 | 1.45 | 0.45 | 25.67 |
| 1991 | 0.58 | 0.15 | 2.14 | 1.98 | 3.02 | 3.77 | 0.86 | 2.60 | 0.21 | 1.49 | 1.50 | 1.65 | 19.95 |
| 1992 | 0.73 | 0.88 | 2.06 | 2.58 | 3.49 | 6.31 | 11.43 | 2.63 | 2.69 | 4.89 | 2.17 | 1.66 | 41.52 |
| 1993 | 1.52 | 1.33 | 2.63 | 2.06 | 3.41 | 6.66 | 16.75 | 4.78 | 3.12 | 0.86 | 0.57 | 1.10 | 44.79 |
| 1994 | 0.62 | 0.53 | 0.06 | 1.71 | 1.58 | 5.02 | 3.43 | 1.02 | 0.98 | 1.67 | 1.20 | 1.33 | 19.15 |
| 1995 | 1.03 | 0.06 | 2.42 | 2.19 | 7.87 | 4.36 | 1.56 | 3.80 | 0.35 | 0.87 | 0.52 | 0.26 | 25.29 |
| 1996 | 0.64 | T | 0.98 | 1.68 | 6.92 | 0.77 | 4.25 | 3.68 | 5.77 | 0.48 | 3.16 | 0.07 | 28.40 |
| 1997 | T | 1.58 | 0.17 | 3.25 | 2.27 | 4.18 | 2.94 | 3.32 | 3.70 | 2.77 | 0.72 | 1.75 | 26.65 |
| 1998 | 1.27 | 1.10 | 3.46 | 3.18 | 0.78 | 3.86 | 6.56 | 1.95 | 4.16 | 2.18 | 4.24 | 0.10 | 32.84 |
| 1999 | 0.66 | 0.22 | 0.88 | 5.54 | 8.29 | 3.30 | 1.41 | 2.74 | 1.14 | 0.02 | 0.84 | 0.43 | 25.47 |
| POR= 37 YRS | 0.62 | 0.73 | 2.05 | 2.45 | 4.15 | 4.41 | 4.12 | 3.41 | 2.76 | 1.87 | 1.25 | 0.87 | 28.69 |

WBAN : 13984

AVERAGE TEMPERATURE (°F) 1999 CONCORDIA, KS (CNK)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1970 | 23.2 | 35.3 | 36.5 | 52.5 | 67.9 | 73.3 | 78.3 | 80.8 | 66.5 | 51.9 | 39.6 | 33.1 | 53.2 |
| 1971 | 21.8 | 26.6 | 39.4 | 53.9 | 59.4 | 76.3 | 74.4 | 76.3 | 68.2 | 58.2 | 42.4 | 33.1 | 52.5 |
| 1972 | 25.2 | 31.4 | 45.3 | 52.1 | 61.9 | 73.4 | 75.8 | 74.9 | 68.2 | 51.6 | 38.0 | 24.9 | 51.9 |
| 1973 | 27.0 | 33.2 | 44.8 | 51.0 | 60.4 | 74.6 | 77.7 | 78.2 | 64.4 | 59.0 | 42.8 | 26.9 | 53.3 |
| 1974 | 22.0 | 36.1 | 45.2 | 54.6 | 65.1 | 71.0 | 84.4 | 72.7 | 63.0 | 58.2 | 41.8 | 32.4 | 53.9 |
| 1975 | 29.1 | 26.1 | 34.8 | 51.5 | 64.3 | 71.7 | 79.3 | 80.2 | 64.1 | 59.6 | 41.3 | 33.6 | 53.0 |
| 1976 | 28.8 | 42.2 | 41.9 | 54.8 | 60.0 | 72.9 | 79.6 | 79.2 | 69.0 | 50.8 | 35.8 | 31.1 | 53.8 |
| 1977 | 18.8 | 37.3 | 46.5 | 57.2 | 67.9 | 74.9 | 81.5 | 73.8 | 68.8 | 55.6 | 41.3 | 29.8 | 54.5 |
| 1978 | 16.1 | 18.4 | 39.1 | 54.3 | 61.6 | 74.6 | 78.7 | 77.1 | 71.3 | 55.9 | 40.8 | 28.2 | 51.3 |
| 1979 | 12.7 | 18.7 | 41.7 | 51.2 | 60.8 | 72.9 | 76.8 | 76.3 | 70.7 | 58.1 | 38.5 | 35.5 | 51.2 |
| 1980 | 26.6 | 25.1 | 37.5 | 52.8 | 62.2 | 75.6 | 85.2 | 80.5 | 70.1 | 55.6 | 45.5 | 32.5 | 54.1 |
| 1981 | 31.8 | 35.5 | 45.3 | 60.7 | 59.9 | 74.5 | 78.1 | 73.8 | 68.3 | 53.7 | 45.0 | 30.7 | 54.8 |
| 1982 | 19.2 | 27.3 | 40.8 | 50.1 | 64.0 | 69.4 | 80.9 | 78.6 | 67.2 | 54.9 | 37.6 | 31.8 | 51.8 |
| 1983 | 28.6 | 32.9 | 40.7 | 44.9 | 57.9 | 69.4 | 82.1 | 84.5 | 70.2 | 55.6 | 40.3 | 12.1 | 51.6 |
| 1984 | 27.0 | 40.0 | 36.7 | 47.9 | 61.7 | 75.0 | 80.1 | 79.0 | 64.8 | 55.3 | 42.9 | 32.4 | 53.6 |
| 1985 | 20.3 | 24.7 | 44.9 | 55.7 | 64.8 | 69.6 | 79.5 | 73.3 | 66.1 | 55.6 | 32.8 | 24.6 | 51.0 |
| 1986 | 36.5 | 32.7 | 49.7 | 55.9 | 62.6 | 74.9 | 80.0 | 72.9 | 70.0 | 55.4 | 38.6 | 33.6 | 55.2 |
| 1987 | 31.6 | 40.1 | 44.4 | 56.3 | 67.8 | 75.5 | 81.1 | 76.3 | 69.4 | 52.6 | 45.4 | 33.7 | 56.2 |
| 1988 | 25.0 | 29.8 | 43.4 | 53.0 | 68.2 | 79.1 | 78.7 | 80.6 | 69.5 | 53.8 | 44.0 | 36.8 | 55.2 |
| 1989 | 37.2 | 21.9 | 43.2 | 57.8 | 64.2 | 70.5 | 78.8 | 76.5 | 65.0 | 57.8 | 42.7 | 23.2 | 53.2 |
| 1990 | 36.9 | 35.7 | 45.3 | 51.9 | 60.3 | 76.4 | 79.3 | 78.7 | 73.0 | 57.2 | 47.4 | 26.4 | 55.7 |
| 1991 | 24.5 | 41.1 | 46.5 | 56.2 | 67.2 | 77.5 | 82.4 | 77.5 | 70.3 | 56.3 | 34.5 | 36.5 | 55.9 |
| 1992 | 37.1 | 41.0 | 46.6 | 53.5 | 62.2 | 69.1 | 74.5 | 71.0 | 67.4 | 54.4 | 35.8 | 29.3 | 53.5 |
| 1993 | 22.0 | 23.8 | 38.8 | 49.4 | 61.8 | 71.5 | 77.3 | 76.4 | 62.6 | 53.6 | 38.2 | 35.2 | 50.9 |
| 1994 | 25.2 | 27.2 | 46.1 | 52.7 | 65.4 | 75.7 | 74.2 | 75.3 | 68.5 | 56.5 | 43.8 | 33.5 | 53.7 |
| 1995 | 28.2 | 37.3 | 42.6 | 49.0 | 57.0 | 70.6 | 78.8 | 80.3 | 65.1 | 55.3 | 39.6 | 30.3 | 52.8 |
| 1996 | 23.4 | 34.8 | 36.0 | 52.5 | 63.3 | 75.2 | 76.4 | 73.9 | 64.8 | 55.5 | 36.3 | 27.9 | 51.7 |
| 1997 | 26.4 | 31.8 | 45.9 | 47.7 | 59.6 | 72.9 | 78.3 | 75.4 | 69.7 | 57.1 | 38.7 | 30.3 | 52.8 |
| 1998 | 30.1 | 38.1 | 36.1 | 51.8 | 67.8 | 73.5 | 78.6 | 77.2 | 73.1 | 58.1 | 46.3 | 34.2 | 55.4 |
| 1999 | 28.6 | 42.1 | 41.9 | 52.2 | 62.9 | 70.6 | 80.4 | 75.7 | 65.1 | 56.6 | 50.1 | 35.6 | 55.2 |
| POR= 37 YRS | 26.3 | 32.0 | 41.9 | 53.1 | 63.1 | 73.2 | 78.9 | 76.7 | 67.4 | 56.0 | 41.3 | 30.4 | 53.4 |

WBAN : 13984

HEATING DEGREE DAYS (base 65°F) 1999 CONCORDIA, KS (CNK)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-------|
| 1970-71 | 1 | 0 | 102 | 424 | 752 | 984 | 1333 | 1071 | 787 | 330 | 191 | 0 | 5975 |
| 1971-72 | 3 | 0 | 99 | 227 | 669 | 982 | 1229 | 965 | 606 | 388 | 151 | 12 | 5331 |
| 1972-73 | 5 | 2 | 68 | 422 | 807 | 1236 | 1171 | 883 | 622 | 414 | 154 | 5 | 5789 |
| 1973-74 | 0 | 0 | 95 | 208 | 661 | 1176 | 1329 | 803 | 606 | 322 | 86 | 19 | 5305 |
| 1974-75 | 0 | 4 | 121 | 223 | 692 | 1005 | 1106 | 1082 | 930 | 414 | 90 | 17 | 5684 |
| 1975-76 | 0 | 0 | 135 | 208 | 701 | 968 | 1115 | 657 | 707 | 310 | 175 | 2 | 4978 |
| 1976-77 | 0 | 0 | 57 | 461 | 868 | 1043 | 1424 | 769 | 567 | 240 | 15 | 0 | 5444 |
| 1977-78 | 0 | 0 | 23 | 291 | 703 | 1085 | 1512 | 1299 | 803 | 326 | 162 | 9 | 6213 |
| 1978-79 | 0 | 0 | 41 | 288 | 719 | 1132 | 1615 | 1294 | 720 | 411 | 164 | 19 | 6403 |
| 1979-80 | 6 | 10 | 22 | 233 | 788 | 909 | 1184 | 1154 | 846 | 381 | 143 | 6 | 5682 |
| 1980-81 | 0 | 0 | 50 | 311 | 578 | 998 | 1026 | 822 | 605 | 177 | 196 | 2 | 4765 |
| 1981-82 | 1 | 0 | 33 | 343 | 594 | 1055 | 1417 | 1050 | 743 | 453 | 71 | 27 | 5787 |
| 1982-83 | 0 | 1 | 78 | 313 | 815 | 1022 | 1121 | 889 | 748 | 596 | 236 | 38 | 5857 |
| 1983-84 | 0 | 0 | 77 | 317 | 734 | 1634 | 1171 | 718 | 871 | 503 | 146 | 2 | 6173 |
| 1984-85 | 0 | 0 | 157 | 311 | 656 | 1001 | 1379 | 1123 | 617 | 287 | 66 | 33 | 5630 |
| 1985-86 | 0 | 2 | 162 | 288 | 957 | 1244 | 875 | 898 | 484 | 284 | 94 | 0 | 5288 |
| 1986-87 | 0 | 5 | 37 | 294 | 784 | 967 | 1027 | 692 | 633 | 301 | 37 | 0 | 4777 |
| 1987-88 | 0 | 6 | 22 | 389 | 586 | 963 | 1230 | 1014 | 663 | 355 | 40 | 0 | 5268 |
| 1988-89 | 4 | 1 | 29 | 347 | 624 | 869 | 857 | 1202 | 676 | 310 | 108 | 19 | 5046 |
| 1989-90 | 0 | 1 | 113 | 255 | 660 | 1293 | 865 | 813 | 606 | 404 | 162 | 4 | 5176 |
| 1990-91 | 0 | 0 | 42 | 265 | 527 | 1191 | 1247 | 661 | 571 | 275 | 79 | 0 | 4858 |
| 1991-92 | 0 | 0 | 62 | 330 | 909 | 877 | 859 | 688 | 565 | 351 | 137 | 14 | 4792 |
| 1992-93 | 0 | 11 | 67 | 338 | 867 | 1102 | 1324 | 1145 | 808 | 459 | 133 | 31 | 6285 |
| 1993-94 | 0 | 3 | 123 | 376 | 799 | 919 | 1227 | 1051 | 583 | 398 | 96 | 5 | 5580 |
| 1994-95 | 0 | 5 | 70 | 262 | 628 | 967 | 1132 | 767 | 687 | 470 | 247 | 20 | 5255 |
| 1995-96 | 1 | 0 | 125 | 306 | 754 | 1068 | 1282 | 867 | 888 | 380 | 154 | 11 | 5836 |
| 1996-97 | 0 | 0 | 109 | 312 | 854 | 1141 | 1189 | 923 | 587 | 512 | 192 | 5 | 5824 |
| 1997-98 | 1 | 3 | 26 | 312 | 783 | 1070 | 1074 | 745 | 896 | 395 | 48 | 38 | 5391 |
| 1998-99 | 0 | 0 | 20 | 232 | 555 | 947 | 1120 | 636 | 707 | 375 | 96 | 20 | 4708 |
| 1999- | 0 | 0 | 96 | 277 | 442 | 909 | | | | | | | |

WBAN : 13984

COOLING DEGREE DAYS (base 65°F) 1999 CONCORDIA, KS (CNK)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1970 | 0 | 0 | 0 | 23 | 154 | 277 | 421 | 497 | 153 | 26 | 0 | 0 | 1551 |
| 1971 | 0 | 0 | 0 | 5 | 24 | 344 | 303 | 359 | 201 | 25 | 0 | 0 | 1261 |
| 1972 | 0 | 0 | 2 | 10 | 59 | 270 | 347 | 315 | 171 | 12 | 0 | 0 | 1186 |
| 1973 | 0 | 0 | 0 | 1 | 21 | 298 | 399 | 414 | 86 | 29 | 0 | 0 | 1248 |
| 1974 | 0 | 0 | 0 | 18 | 94 | 207 | 607 | 248 | 69 | 19 | 0 | 0 | 1262 |
| 1975 | 0 | 0 | 0 | 14 | 74 | 221 | 447 | 480 | 115 | 49 | 0 | 0 | 1400 |
| 1976 | 0 | 0 | 0 | 10 | 29 | 246 | 458 | 443 | 182 | 32 | 0 | 0 | 1400 |
| 1977 | 0 | 0 | 0 | 14 | 113 | 304 | 518 | 280 | 143 | 4 | 0 | 0 | 1376 |
| 1978 | 0 | 0 | 6 | 10 | 64 | 303 | 431 | 383 | 235 | 12 | 2 | 0 | 1446 |
| 1979 | 0 | 0 | 1 | 5 | 39 | 261 | 381 | 365 | 201 | 27 | 0 | 0 | 1280 |
| 1980 | 0 | 0 | 0 | 18 | 58 | 334 | 634 | 485 | 212 | 26 | 4 | 0 | 1771 |
| 1981 | 0 | 0 | 0 | 51 | 42 | 294 | 414 | 279 | 141 | 0 | 0 | 0 | 1221 |
| 1982 | 0 | 0 | 0 | 11 | 46 | 166 | 501 | 431 | 150 | 9 | 0 | 0 | 1314 |
| 1983 | 0 | 0 | 0 | 0 | 23 | 177 | 534 | 610 | 240 | 32 | 0 | 0 | 1616 |
| 1984 | 0 | 0 | 0 | 0 | 51 | 309 | 475 | 441 | 156 | 16 | 0 | 0 | 1448 |
| 1985 | 0 | 0 | 0 | 16 | 65 | 175 | 457 | 267 | 201 | 3 | 0 | 0 | 1184 |
| 1986 | 0 | 0 | 17 | 19 | 26 | 306 | 474 | 256 | 192 | 1 | 0 | 0 | 1291 |
| 1987 | 0 | 0 | 0 | 51 | 132 | 319 | 507 | 364 | 161 | 12 | 5 | 0 | 1551 |
| 1988 | 0 | 0 | 0 | 4 | 150 | 430 | 437 | 492 | 168 | 5 | 0 | 0 | 1686 |
| 1989 | 0 | 0 | 8 | 99 | 93 | 190 | 435 | 364 | 120 | 39 | 0 | 0 | 1348 |
| 1990 | 0 | 0 | 0 | 15 | 23 | 354 | 448 | 433 | 290 | 28 | 7 | 0 | 1598 |
| 1991 | 0 | 0 | 5 | 19 | 154 | 384 | 546 | 396 | 227 | 68 | 0 | 0 | 1799 |
| 1992 | 0 | 0 | 2 | 15 | 59 | 145 | 303 | 200 | 147 | 19 | 0 | 0 | 890 |
| 1993 | 0 | 0 | 0 | 0 | 40 | 235 | 388 | 365 | 56 | 27 | 0 | 0 | 1111 |
| 1994 | 0 | 0 | 2 | 36 | 116 | 333 | 291 | 330 | 181 | 6 | 0 | 0 | 1295 |
| 1995 | 0 | 0 | 3 | 0 | 7 | 198 | 441 | 485 | 137 | 14 | 0 | 0 | 1285 |
| 1996 | 0 | 0 | 0 | 14 | 109 | 322 | 362 | 284 | 109 | 24 | 0 | 0 | 1224 |
| 1997 | 0 | 0 | 0 | 1 | 29 | 252 | 419 | 333 | 174 | 74 | 0 | 0 | 1282 |
| 1998 | 0 | 0 | 6 | 4 | 139 | 303 | 430 | 383 | 271 | 24 | 0 | 0 | 1560 |
| 1999 | 0 | 0 | 0 | 0 | 36 | 194 | 487 | 340 | 109 | 24 | 2 | 0 | 1192 |

SNOWFALL (inches) 1999 CONCORDIA, KS (CNK)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1970-71 | 0.0 | 0.0 | 0.0 | 4.6 | 0.3 | 0.2 | 9.1 | 20.6 | 9.2 | T | 0.0 | 0.0 | 44.0 |
| 1971-72 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 4.3 | 2.8 | 2.6 | T | 0.0 | 0.0 | 0.0 | 17.2 |
| 1972-73 | 0.0 | 0.0 | 0.0 | 0.0 | 10.1 | 5.8 | 7.1 | 2.8 | 0.0 | 1.8 | 0.0 | 0.0 | 27.6 |
| 1973-74 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 11.3 | 7.7 | 0.6 | 0.5 | 2.2 | 0.0 | 0.0 | 22.4 |
| 1974-75 | 0.0 | 0.0 | 0.0 | 0.0 | T | 4.5 | 10.4 | 10.6 | 8.6 | 1.4 | 0.0 | 0.0 | 35.5 |
| 1975-76 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 | T | 3.0 | 4.0 | 6.6 | 0.0 | 0.0 | 0.0 | 21.5 |
| 1976-77 | 0.0 | 0.0 | 0.0 | 0.5 | 1.5 | T | 9.1 | 0.2 | T | 1.2 | 0.0 | 0.0 | 12.5 |
| 1977-78 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.2 | 4.1 | 11.7 | 5.4 | 0.0 | 0.0 | 0.0 | 22.8 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 6.1 | 13.7 | 2.2 | 3.1 | 2.5 | 0.0 | 0.0 | 28.4 |
| 1979-80 | 0.0 | 0.0 | 0.0 | 0.6 | T | 4.5 | 4.5 | 12.7 | 6.0 | T | 0.0 | 0.0 | 28.3 |
| 1980-81 | 0.0 | 0.0 | 0.0 | T | T | 0.4 | 3.8 | 2.2 | T | 0.0 | 0.0 | 0.0 | 6.4 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 3.6 | 5.8 | 6.8 | 2.8 | 1.5 | 0.0 | 0.0 | 20.6 |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.3 | 12.2 | 8.7 | 5.3 | 6.1 | 0.0 | 0.0 | 34.6 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 16.7 | 3.3 | T | 6.2 | T | 0.0 | 0.0 | 33.5 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 2.5 | 12.4 | 4.3 | 6.2 | 0.0 | 0.0 | 0.0 | 26.1 |
| 1985-86 | 0.0 | 0.0 | T | 0.0 | 6.4 | 6.0 | 0.0 | 2.9 | T | 0.0 | 0.0 | 0.0 | 15.3 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 7.1 | 5.9 | 0.2 | 10.7 | 0.0 | 0.0 | 0.0 | 24.3 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 5.4 | 3.7 | 8.7 | 2.7 | 0.0 | 0.0 | 0.0 | 25.8 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.9 | T | 5.1 | 0.2 | 0.0 | T | T | 8.1 |
| 1989-90 | 0.0 | 0.0 | 0.0 | T | T | 6.9 | 3.0 | 2.8 | 4.2 | 0.0 | 0.0 | 0.0 | 16.9 |
| 1990-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 5.5 | 7.8 | T | 1.4 | T | T | 0.0 | 14.8 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 3.6 | 7.1 | 0.4 | 1.0 | 5.4 | 1.3 | 0.5 | 0.0 | 0.0 | 19.3 |
| 1992-93 | T | 0.0 | | | 4.4 | 2.3 | 15.8 | 7.6 | 0.9 | 0.4 | 0.0 | 0.0 | |
| 1993-94 | 0.0 | 0.0 | 0.0 | T | 0.2 | 1.4 | 2.9 | 7.7 | T | 0.3 | 0.2 | T | 12.7 |
| 1994-95 | T | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | 0.0 | 0.0 | |
| 1995-96 | T | 0.0 | 0.0 | 0.0 | 2.7 | 1.4 | 13.0 | | | | | | |
| 1996-97 | | | | | | 1.7 | | | | | | | |
| 1997-98 | | | | | | | | | | | | | |
| 1998-99 | | | | | | | | | | | | | |
| 1999- | | | | | | | | | | | | | |
| POR= 35 YRS | T | 0.0 | T | 0.3 | 2.1 | 4.3 | 5.6 | 0.2 | 3.4 | 0.7 | T | T | 16.6 |

WBAN : 13984

REFERENCE NOTES:

| | |
|---|---|
| <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 (1961 - 1990). 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> |
|---|---|

1999
CONCORDIA,
KANSAS (CNK)

A wide variety of weather occurs in the Concordia area which makes possible a great range in crop production. Wheat is ideally suited to the climate of north-central Kansas where a complete crop failure is unknown. Equally well suited to the climate are alfalfa, sweet clover, and sorghum. Corn is generally a successful crop although dry summers and hot winds occasionally prove disastrous. Adequate moisture throughout the year under normal conditions provides fine grazing conditions for a flourishing livestock industry.

Precipitation is light during the winter months, increasing in the spring until June and dropping off during the autumn months. Summer months with less than 1 inch of precipitation are common, even though monthly summer rainfall has exceeded 13 inches. Thunderstorms are frequent in May, June, July and August. Although heavy winter snowfalls are not uncommon, severe storms that paralyze industry and agriculture are very rare. Some periods have been distinguished by very dry

or very wet cycles. Sustained periods of hot, dry, and windy weather frequently occur in July and August with temperatures of 100 degrees or more recorded for a week or more at a time. The average last occurrence of temperatures as low as 32 degrees in the spring is mid April. The average first occurrence of 32 degrees in the autumn is late October.

Winds are southerly most of the year except for a short period of northerly winds during the winter. Velocities are nearly constant throughout the year except for a slight increase in the spring months.

The variety of weather in north-central Kansas is invigorating and healthful. Winters are usually mild, and summers are seldom oppressively hot. Spring and autumn, although very different in most respects, are very pleasant. A period of mild, dry Indian Summer weather usually occurs in October and early November before the winter snow and cold begin.

STATION LOCATION

CONCORDIA, KANSAS

| LOCATION | OCCUPIED FROM | OCCUPIED TO | AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE | | | | | | | | | | | * Type | REMARKS | |
|---|---------------|-------------|---|----------------|----------------|-----------------|------------------|---------|---------|---------|-----------|------------------------------|----|----------------|----|----|--|--|-------------------|
| | | | | | | SEA LEVEL | GROUND | | | | | | | | | | | | A U T O M A T I C |
| | | | | | | | W I N D | E M E R | E M E R | S | T | R | W | 8 | H | E | | | |
| <u>CITY</u> | | | | | | | | | | | | | | | | | | | |
| B.S. Williams Building 204 West 6th Street | 5/01/85 | 6/10/15 | NA | 39°34' | 97°40' | 1375 | 47 | 43 | 42 | NA a | NA a35 | NA | 34 | NA | NA | NA | a | - Installed 9/13/07. | |
| Post Office Building 7th & Washington | 6/10/15 | 5/16/62 | 150 ft. S | 39°34' | 97°40' | 1375 | 58 | 51 | 50 | Unk | 42 | NA b Unk c45 d42 | 42 | NA | NA | b | - Installed on ground 10/26/40. c - Moved to roof 11/17/50. d - Minor adjustment 5/28/52. Moved to Airport 5/16/62. | | |
| <u>AIRPORT</u> | | | | | | | | | | | | | | | | | | | |
| Carlson Building Blosser Municipal AP (1.2 mi. SSE of P.O.) | 5/16/62 | 9/1/92 | NA | 39°33' | 97°39' | 1470 | 21 e33 g23 | 4 | 4 | 5 | 3 | 4 | 4 | NA f5 h5 | NA | NA | e | - Raised 7/30/80. f - Installed on instrument plot 10/20/81. g - Minor adjustment 6/6/84. h - Type change 6/6/85. | |
| Blosser Municipal AP | 09/01/92 | Present | NA | 39°33' | 97°39' | 1469 | | | | | | | | | S | S | ASOS Commissioned 09/01/92 | | |

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
INQUIRIES/COMMENTS CALL: (828) 271-4800

National Climatic Data Center
151 Patton Avenue, Rm 120
Asheville NC 28801-5001

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300
FORWARD AND ADDRESS CORRECTION

FIRST CLASS
POSTAGE & FEES PAID
United States Department of Commerce
NOAA Permit No. G - 19