

1999

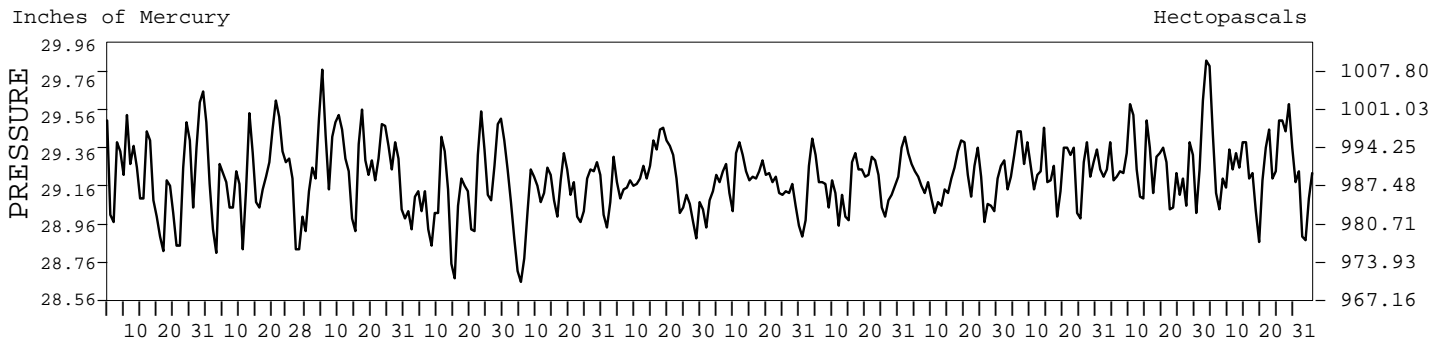
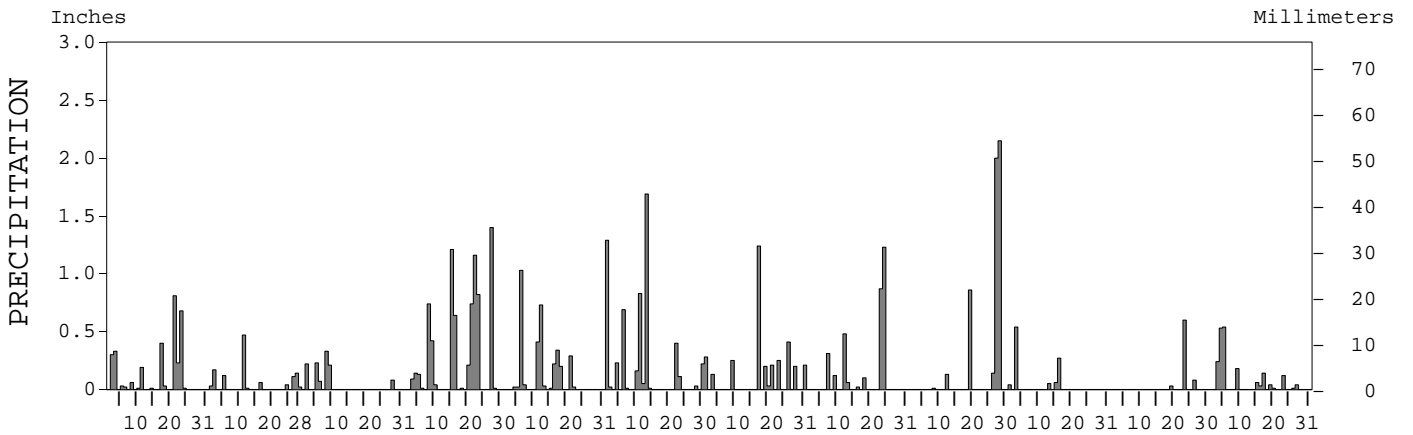
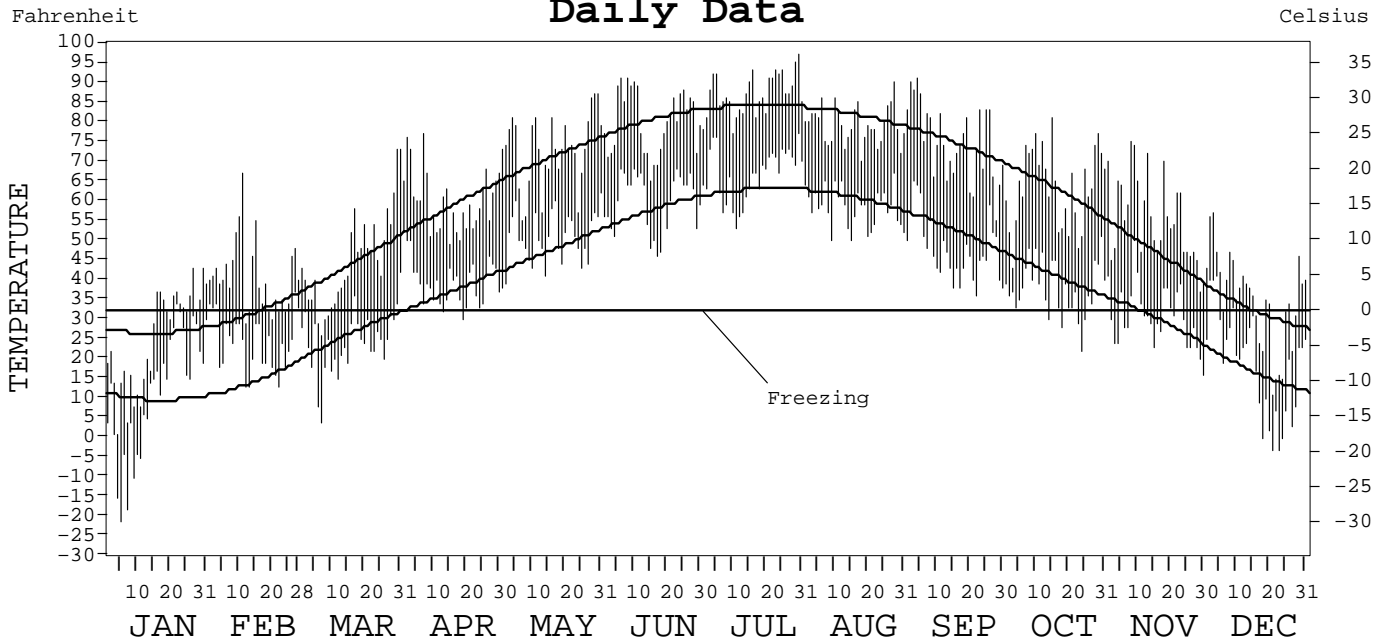
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1900

ROCKFORD,
ILLINOIS (RFD)

Daily Data



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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

ROCKFORD, IL (RFD)

LATITUDE: 42° 11' 46" N LONGITUDE: 89° 05' 33" W ELEVATION (FT): GRND: 727 BARO: 727 TIME ZONE: CENTRAL (UTC + 6) WBAN: 94822

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 25.4 | 40.8 | 45.0 | 59.9 | 72.9 | 80.0 | 87.0 | 79.1 | 74.9 | 63.6 | 55.6 | 34.9 | 59.9 | |
| | HIGHEST DAILY MAXIMUM | 43 | 67 | 73 | 77 | 87 | 91 | 97 | 90 | 91 | 81 | 75 | 57 | 97 | |
| | DATE OF OCCURRENCE | 30+ | 11 | 31+ | 07 | 30+ | 08+ | 30 | 28 | 04 | 15 | 08 | 03 | JUL 30 | |
| | MEAN DAILY MINIMUM | 11.5 | 24.1 | 24.2 | 39.5 | 50.5 | 59.7 | 66.5 | 58.3 | 47.7 | 37.8 | 30.8 | 18.6 | 39.1 | |
| | LOWEST DAILY MINIMUM | -21 | 13 | 4 | 30 | 38 | 46 | 53 | 50 | 36 | 22 | 16 | -3 | -21 | |
| | DATE OF OCCURRENCE | 05 | 22+ | 07 | 19 | 01 | 17 | 11 | 15+ | 22 | 24 | 30 | 23+ | JAN 05 | |
| | AVERAGE DRY BULB | 18.5 | 32.5 | 34.6 | 49.7 | 61.7 | 69.9 | 76.8 | 68.7 | 61.3 | 50.7 | 43.2 | 26.8 | 49.5 | |
| | MEAN WET BULB | 18.2 | 30.1 | 30.4 | 45.6 | 55.7 | 64.0 | 71.0 | 63.8 | 54.8 | 45.1 | 38.5 | 26.1 | 45.3 | |
| | MEAN DEW POINT | 15.2 | 25.5 | 22.8 | 40.8 | 50.3 | 60.1 | 68.0 | 60.4 | 49.5 | 39.0 | 32.6 | 23.1 | 40.6 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 1 | 2 | 0 | 0 | 0 | 17 | |
| | MAXIMUM ≤ 32° | 19 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 40 | |
| | MINIMUM ≤ 32° | 30 | 23 | 28 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 19 | 27 | 134 | |
| | MINIMUM ≤ 0° | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 11 | |
| H/C | HEATING DEGREE DAYS | 1435 | 904 | 935 | 449 | 139 | 34 | 0 | 5 | 160 | 435 | 644 | 1178 | 6318 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 47 | 188 | 371 | 129 | 55 | 0 | 0 | 0 | 790 | |
| RH | MEAN (PERCENT) | 84 | 77 | 65 | 74 | 69 | 73 | 75 | 77 | 70 | 68 | 70 | 84 | 74 | |
| | HOUR 00 LST | 87 | 82 | 73 | 84 | 77 | 85 | 86 | 92 | 85 | 77 | 77 | 89 | 83 | |
| | HOUR 06 LST | 86 | 84 | 81 | 88 | 84 | 87 | 93 | 94 | 91 | 85 | 86 | 87 | 87 | |
| | HOUR 12 LST | 81 | 68 | 52 | 62 | 57 | 59 | 61 | 61 | 46 | 52 | 53 | 78 | 61 | |
| | HOUR 18 LST | 84 | 72 | 55 | 64 | 60 | 64 | 64 | 64 | 59 | 59 | 63 | 83 | 66 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 7 | 3 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 3 | 3 | 4 | 24 | |
| | THUNDERSTORMS | 1 | 2 | 0 | 7 | 8 | 8 | 12 | 3 | 3 | 1 | 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.) | 29.26 | 29.21 | 29.34 | 29.15 | 29.14 | 29.21 | 29.19 | 29.23 | 29.21 | 29.30 | 29.33 | 29.28 | 29.24 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.10 | 30.03 | 30.16 | 29.95 | 29.93 | 30.00 | 29.97 | 30.01 | 30.01 | 30.10 | 30.13 | 30.09 | 30.04 | |
| WINDS | RESULTANT SPEED (MPH) | 1.1 | 2.8 | 1.1 | 5.0 | 1.3 | 1.9 | 3.1 | 0.9 | 1.5 | 2.6 | 3.3 | 2.5 | 0.9 | |
| | RES. DIR. (TENS OF DEGS.) | 33 | 21 | 01 | 07 | 22 | 17 | 23 | 04 | 26 | 23 | 23 | 23 | 22 | |
| | MEAN SPEED (MPH) | 10.2 | 10.7 | 10.4 | 11.1 | 10.5 | 7.6 | 7.9 | 7.0 | 7.5 | 8.6 | 8.7 | 8.4 | 9.1 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 28 | 28 | 36 | 06 | 16 | 15 | 19 | 17 | 17 | 17 | 17 | 16 | 17 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 32 | 49 | 34 | 38 | 33 | 33 | 31 | 32 | 28 | 31 | 30 | 30 | 49 | |
| | DIR. (TENS OF DEGS.) | 08 | 22 | 17 | 07 | 24 | 19 | 30 | 29 | 20 | 30 | 23 | 30 | 22 | |
| | DATE OF OCCURRENCE | 22 | 11 | 31+ | 08 | 17 | 11+ | 23 | 23 | 26 | 21 | 23 | 26 | FEB 11 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 41 | 68 | 45 | 45 | 43 | 46 | 37 | 37 | 34 | 40 | 38 | 40 | 68 | |
| DIR. (TENS OF DEGS.) | 08 | 22 | 16 | 09 | 22 | 26 | 30 | 28 | 21 | 30 | 24 | 29 | 22 | | |
| DATE OF OCCURRENCE | 22 | 11 | 31+ | 08 | 17+ | 06 | 23 | 23 | 23 | 26 | 21 | 23 | FEB 11 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 3.11 | 1.17 | 1.14 | 7.77 | 3.36 | 5.74 | 3.41 | 3.19 | 5.29 | 0.96 | 0.71 | 1.94 | 37.79 | |
| | GREATEST 24-HOUR (IN.) | 1.01 | 0.47 | 0.54 | 1.97 | 1.03 | 1.71 | 1.24 | 2.10 | 2.15 | 0.54 | 0.60 | 0.91 | 2.15 | |
| | DATE OF OCCURRENCE | 21-22 | 11 | 08-09 | 22-23 | 06 | 12-13 | 17 | 23-24 | 28 | 03 | 23 | 04-05 | SEP 28 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 14 | 10 | 6 | 16 | 13 | 14 | 11 | 8 | 6 | 5 | 3 | 12 | 118 | |
| PRECIPITATION ≥ 0.10 | 7 | 5 | 4 | 11 | 7 | 9 | 10 | 6 | 5 | 2 | 1 | 6 | 73 | | |
| PRECIPITATION ≥ 1.00 | 0 | 0 | 0 | 3 | 1 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | 10 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 14.3 | 0.8 | 10.4 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 30.5 | |
| | GREATEST 24-HOUR (IN.) | 6.0 | 0.5 | 4.6 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 6.0 | |
| | DATE OF OCCURRENCE | 03 | 24 | 08 | 10 | | | | | | | | 17 | JAN 03 | |
| | MAXIMUM SNOW DEPTH (IN.) | | | | | | | | | | | | | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 | | |

NORMALS, MEANS, AND EXTREMES

ROCKFORD, IL (RFD)

LATITUDE: 42° 11' 46" N LONGITUDE: 89° 05' 33" W ELEVATION (FT): GRND: 727 BARO: 727 TIME ZONE: CENTRAL (UTC + 6) WBAN: 94822

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|-----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 26.6 | 31.6 | 43.8 | 58.4 | 70.8 | 80.2 | 83.8 | 81.4 | 74.1 | 62.3 | 46.3 | 31.8 | 57.6 |
| | MEAN DAILY MAXIMUM | 46 | 51.8 | 57.9 | 65.5 | 74.7 | 83.2 | 91.9 | 93.0 | 90.8 | 84.4 | 75.0 | 62.2 | 53.7 | 73.7 |
| | HIGHEST DAILY MAXIMUM | 49 | 63 | 68 | 85 | 91 | 95 | 101 | 103 | 104 | 102 | 90 | 76 | 66 | 104 |
| | YEAR OF OCCURRENCE | | 1989 | 1976 | 1986 | 1980 | 1975 | 1988 | 1955 | 1988 | 1953 | 1997 | 1961 | 1998 | AUG 1988 |
| | MEAN OF EXTREME MAXS. | 46 | 71.8 | 76.3 | 82.5 | 89.5 | 96.1 | 102.3 | 101.6 | 99.3 | 96.0 | 89.3 | 79.0 | 72.1 | 88.0 |
| | NORMAL DAILY MINIMUM | 30 | 9.8 | 14.2 | 26.1 | 36.9 | 47.4 | 57.4 | 62.5 | 60.3 | 52.0 | 40.6 | 29.5 | 16.1 | 37.7 |
| | MEAN DAILY MINIMUM | 46 | 25.1 | 30.1 | 36.3 | 45.0 | 54.7 | 63.9 | 67.8 | 66.2 | 58.7 | 46.8 | 34.3 | 26.7 | 46.3 |
| | LOWEST DAILY MINIMUM | 49 | -27 | -24 | -11 | 5 | 24 | 37 | 43 | 41 | 27 | 15 | -10 | -24 | -27 |
| | YEAR OF OCCURRENCE | | 1982 | 1996 | 1962 | 1982 | 1966 | 1993 | 1967 | 1986 | 1984 | 1952 | 1977 | 1983 | JAN 1982 |
| | MEAN OF EXTREME MINS. | 46 | 7.2 | 13.5 | 21.1 | 30.7 | 42.0 | 53.5 | 61.4 | 59.5 | 47.5 | 33.6 | 19.3 | 11.3 | 33.4 |
| | NORMAL DRY BULB | 30 | 18.2 | 22.9 | 35.0 | 47.7 | 59.1 | 68.8 | 73.2 | 70.9 | 63.1 | 51.5 | 38.0 | 24.0 | 47.7 |
| | MEAN DRY BULB | 46 | 38.5 | 44.0 | 51.1 | 59.8 | 69.0 | 78.0 | 80.3 | 78.6 | 71.6 | 60.9 | 48.2 | 40.2 | 60.0 |
| | MEAN WET BULB | 16 | 30.6 | 36.4 | 39.8 | 46.3 | 54.8 | 62.2 | 65.3 | 65.4 | 59.0 | 49.6 | 38.5 | 31.7 | 48.3 |
| | MEAN DEW POINT | 16 | 21.4 | 25.1 | 26.2 | 31.4 | 42.5 | 52.7 | 57.2 | 59.0 | 51.4 | 40.3 | 28.3 | 22.9 | 38.2 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 3.0 | 5.9 | 3.5 | 1.1 | 0.1 | 0.0 | 0.0 | 14.3 | |
| MAXIMUM ≤ 32° | 30 | 19.5 | 14.4 | 4.6 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 15.1 | 56.3 | |
| MINIMUM ≤ 32° | 30 | 29.6 | 26.2 | 23.2 | 9.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.4 | 6.8 | 19.3 | 28.0 | 144.1 | |
| MINIMUM ≤ 0° | 30 | 9.6 | 5.2 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 4.4 | 19.7 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1451 | 1179 | 930 | 519 | 239 | 24 | 5 | 15 | 99 | 427 | 810 | 1271 | 6969 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 0 | 56 | 138 | 259 | 198 | 42 | 9 | 0 | 0 | 702 |
| RH | NORMAL (PERCENT) | 30 | 75 | 74 | 71 | 66 | 65 | 66 | 70 | 74 | 74 | 71 | 75 | 78 | 72 |
| | HOUR 00 LST | 30 | 78 | 78 | 78 | 74 | 75 | 77 | 83 | 86 | 85 | 81 | 81 | 81 | 80 |
| | HOUR 06 LST | 30 | 79 | 81 | 82 | 80 | 80 | 81 | 86 | 90 | 90 | 86 | 83 | 82 | 83 |
| | HOUR 12 LST | 30 | 70 | 66 | 62 | 55 | 53 | 54 | 56 | 58 | 58 | 57 | 66 | 72 | 61 |
| | HOUR 18 LST | 30 | 74 | 70 | 65 | 55 | 54 | 54 | 58 | 62 | 64 | 64 | 73 | 77 | 64 |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 49 | 2.9 | 2.5 | 2.6 | 1.2 | 1.0 | 0.6 | 1.2 | 1.8 | 1.7 | 1.9 | 2.2 | 3.1 | 22.7 |
| | THUNDERSTORMS | 49 | 0.1 | 0.4 | 2.0 | 4.3 | 5.6 | 7.7 | 7.9 | 6.3 | 4.7 | 2.4 | 1.1 | 0.3 | 42.8 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | | | | | | | | | | | | | | |
| | MIDNIGHT-MIDNIGHT (OKTAS) | | | | | | | | | | | | | | |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| CLEAR | 1 | | 1.0 | 1.0 | | 1.0 | | | | | | | | | |
| PARTLY CLOUDY | 1 | | | 1.0 | | 1.0 | | | | | | | | | |
| CLOUDY | 1 | | | 2.0 | | | | | | | | | | | |
| PR | MEAN STATION PRESSURE (IN) | 27 | 29.28 | 29.28 | 29.21 | 29.17 | 29.17 | 29.17 | 29.21 | 29.25 | 29.26 | 29.26 | 29.24 | 29.28 | 29.23 |
| | MEAN SEA-LEVEL PRES. (IN) | 16 | 30.08 | 30.00 | 29.93 | 29.86 | 29.81 | 29.82 | 29.89 | 29.94 | 29.94 | 29.99 | 30.03 | 30.06 | 29.95 |
| WINDS | MEAN SPEED (MPH) | 32 | 10.5 | 10.5 | 11.7 | 11.6 | 10.2 | 9.1 | 7.9 | 7.6 | 8.3 | 9.4 | 10.3 | 10.1 | 9.8 |
| | PREVAIL. DIR (TENS OF DEGS) | 25 | 30 | 30 | 30 | 06 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 4 | 36 | 49 | 41 | 47 | 44 | 47 | 46 | 57 | 37 | 40 | 45 | 34 | 57 |
| | DIR. (TENS OF DEGS) | | 16 | 22 | 23 | 23 | 16 | 20 | 33 | 29 | 29 | 21 | 24 | 34 | 29 |
| | YEAR OF OCCURRENCE | | 1996 | 1999 | 1996 | 1997 | 1997 | 1998 | 1998 | 1998 | 1997 | 1996 | 1998 | 1998 | AUG 1998 |
| | MAXIMUM 5-SECOND: | | | | | | | | | | | | | | |
| SPEED (MPH) | 4 | 44 | 68 | 52 | 64 | 54 | 66 | 61 | 74 | 45 | 52 | 56 | 43 | 74 | |
| DIR. (TENS OF DEGS) | | 17 | 22 | 22 | 26 | 16 | 20 | 33 | 28 | 28 | 23 | 22 | 33 | 28 | |
| YEAR OF OCCURRENCE | | 1996 | 1999 | 1996 | 1997 | 1997 | 1998 | 1998 | 1998 | 1997 | 1996 | 1998 | 1998 | AUG 1998 | |
| PRECIPITATION | NORMAL (IN) | 30 | 1.28 | 1.14 | 2.46 | 3.65 | 3.66 | 4.52 | 4.12 | 4.15 | 3.80 | 2.88 | 2.57 | 2.05 | 36.28 |
| | MAXIMUM MONTHLY (IN) | 49 | 4.66 | 3.04 | 5.62 | 9.92 | 11.75 | 11.85 | 11.81 | 13.55 | 10.68 | 8.32 | 5.51 | 5.04 | 13.55 |
| | YEAR OF OCCURRENCE | | 1960 | 1994 | 1961 | 1973 | 1996 | 1993 | 1952 | 1987 | 1961 | 1969 | 1985 | 1971 | AUG 1987 |
| | MINIMUM MONTHLY (IN) | 49 | 0.18 | 0.04 | 0.50 | 0.99 | 0.48 | 0.46 | 0.79 | 0.67 | 0.05 | 0.01 | 0.38 | 0.37 | 0.01 |
| | YEAR OF OCCURRENCE | | 1961 | 1969 | 1996 | 1989 | 1992 | 1988 | 1991 | 1970 | 1979 | 1952 | 1976 | 1976 | OCT 1952 |
| | MAXIMUM IN 24 HOURS (IN) | 49 | 2.89 | 1.73 | 2.50 | 5.55 | 4.77 | 4.15 | 5.03 | 6.42 | 5.56 | 5.22 | 3.20 | 2.24 | 6.42 |
| | YEAR OF OCCURRENCE | | 1960 | 1966 | 1976 | 1973 | 1996 | 1969 | 1952 | 1987 | 1961 | 1954 | 1961 | 1971 | AUG 1987 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 9.4 | 7.9 | 10.9 | 11.8 | 11.3 | 9.9 | 9.6 | 9.3 | 9.3 | 9.0 | 9.7 | 10.4 | 118.5 | |
| PRECIPITATION ≥ 1.00 | 30 | 0.2 | 0.1 | 0.4 | 0.8 | 1.0 | 1.3 | 1.2 | 0.9 | 1.0 | 0.8 | 0.5 | 0.3 | 8.5 | |
| SNOWFALL | NORMAL (IN) | 30 | 8.3 | 7.5 | 6.5 | 1.7 | 0.* | 0.0 | 0.0 | 0.0 | 0.1 | 2.4 | 9.8 | 36.3 | |
| | MAXIMUM MONTHLY (IN) | 47 | 26.1 | 30.2 | 22.7 | 7.7 | 1.0 | T | T | T | 0.0 | 2.2 | 14.7 | 25.1 | 30.2 |
| | YEAR OF OCCURRENCE | | 1979 | 1994 | 1964 | 1982 | 1966 | 1996 | 1994 | 1990 | | 1967 | 1951 | 1978 | FEB 1994 |
| | MAXIMUM IN 24 HOURS (IN) | 47 | 9.9 | 10.9 | 10.4 | 6.7 | 0.2 | T | T | T | 0.0 | 2.2 | 9.5 | 11.4 | 11.4 |
| | YEAR OF OCCURRENCE | | 1979 | 1960 | 1972 | 1970 | 1990 | 1996 | 1994 | 1990 | | 1967 | 1951 | 1987 | DEC 1987 |
| | MAXIMUM SNOW DEPTH (IN) | 42 | 6 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 11 | 13 |
| | YEAR OF OCCURRENCE | | 1982 | 1956 | 1989 | 1983 | | | | | | 1993 | 1961 | 1960 | FEB 1956 |
| NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 30 | 2.6 | 2.5 | 2.0 | 0.5 | 0.* | 0.0 | 0.0 | 0.0 | 0.0 | 0.* | 0.7 | 2.9 | 11.2 | |

PRECIPITATION (inches) 1999 ROCKFORD, IL (RFD)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|-------|-------|------|-------|-------|------|------|------|--------|
| 1970 | 0.51 | 0.56 | 1.89 | 3.75 | 5.50 | 4.20 | 4.29 | 0.67 | 10.63 | 4.03 | 1.36 | 1.37 | 38.76 |
| 1971 | 1.11 | 2.67 | 2.11 | 1.79 | 1.83 | 2.37 | 2.81 | 1.48 | 2.36 | 1.99 | 2.24 | 5.04 | 27.80 |
| 1972 | 0.66 | 0.60 | 2.79 | 6.21 | 4.57 | 8.27 | 8.39 | 9.10 | 6.51 | 4.29 | 1.39 | 2.37 | 55.15 |
| 1973 | 1.67 | 1.56 | 4.53 | 9.92 | 6.98 | 5.16 | 5.81 | 1.89 | 8.52 | 5.15 | 1.97 | 3.32 | 56.48 |
| 1974 | 3.55 | 1.65 | 2.03 | 3.41 | 6.98 | 6.30 | 1.48 | 2.21 | 0.35 | 2.41 | 2.31 | 1.63 | 34.31 |
| 1975 | 2.38 | 2.03 | 2.81 | 2.39 | 3.03 | 4.68 | 1.30 | 4.08 | 0.91 | 0.98 | 4.24 | 1.95 | 30.78 |
| 1976 | 0.59 | 1.41 | 4.94 | 3.60 | 2.38 | 2.16 | 2.05 | 2.04 | 1.39 | 1.94 | 0.38 | 0.37 | 23.25 |
| 1977 | 0.61 | 0.64 | 3.52 | 2.39 | 5.47 | 4.67 | 4.73 | 5.31 | 3.91 | 2.26 | 2.63 | 1.87 | 38.01 |
| 1978 | 0.78 | 0.47 | 0.86 | 3.29 | 3.84 | 5.63 | 7.41 | 2.65 | 4.33 | 0.87 | 2.46 | 2.76 | 35.35 |
| 1979 | 2.43 | 1.18 | 3.74 | 5.20 | 1.45 | 4.75 | 4.34 | 6.74 | 0.05 | 1.55 | 2.43 | 2.24 | 36.10 |
| 1980 | 1.02 | 1.07 | 0.97 | 2.75 | 2.37 | 6.06 | 3.58 | 5.41 | 6.13 | 1.42 | 0.68 | 2.71 | 34.17 |
| 1981 | 0.22 | 2.40 | 0.65 | 5.21 | 1.84 | 5.88 | 1.14 | 9.18 | 3.51 | 2.47 | 1.63 | 0.77 | 34.90 |
| 1982 | 1.58 | 0.20 | 3.63 | 3.47 | 4.56 | 4.31 | 8.89 | 2.69 | 1.70 | 4.22 | 4.69 | 3.65 | 43.59 |
| 1983 | 0.52 | 1.48 | 2.70 | 3.85 | 4.99 | 1.55 | 3.85 | 2.47 | 3.80 | 2.25 | 4.68 | 2.31 | 34.45 |
| 1984 | 0.73 | 1.29 | 2.04 | 3.09 | 3.95 | 3.99 | 2.92 | 1.63 | 1.54 | 5.93 | 3.44 | 3.29 | 33.84 |
| 1985 | 1.00 | 1.88 | 3.66 | 1.10 | 3.43 | 3.34 | 2.98 | 4.71 | 2.81 | 7.39 | 5.51 | 2.30 | 40.11 |
| 1986 | 0.73 | 2.44 | 0.93 | 2.04 | 4.79 | 3.77 | 3.14 | 2.38 | 9.89 | 2.44 | 1.12 | 0.66 | 34.33 |
| 1987 | 0.93 | 0.82 | 1.96 | 1.98 | 3.73 | 3.08 | 5.02 | 13.55 | 2.38 | 0.82 | 2.57 | 4.03 | 40.87 |
| 1988 | 2.45 | 0.54 | 2.15 | 3.14 | 1.29 | 0.46 | 2.39 | 1.96 | 2.29 | 2.10 | 4.25 | 1.75 | 24.77 |
| 1989 | 0.79 | 0.63 | 2.41 | 0.99 | 2.93 | 2.46 | 7.61 | 6.23 | 1.86 | 0.86 | 0.94 | 0.51 | 28.22 |
| 1990 | 1.83 | 1.23 | 2.65 | 2.83 | 5.10 | 9.24 | 4.93 | 6.73 | 0.85 | 3.31 | 3.64 | 2.45 | 44.79 |
| 1991 | 1.12 | 0.45 | 4.77 | 2.15 | 2.72 | 3.29 | 0.79 | 1.69 | 4.59 | 4.77 | 4.24 | 1.82 | 32.40 |
| 1992 | 1.11 | 1.19 | 2.02 | 3.65 | 0.48 | 1.18 | 5.12 | 2.44 | 5.44 | 0.66 | 4.75 | 3.36 | 31.40 |
| 1993 | 2.45 | 0.87 | 3.86 | 6.11 | 3.05 | 11.85 | 3.72 | 3.07 | 3.72 | 0.74 | 1.77 | 1.23 | 42.44 |
| 1994 | 1.00 | 3.04 | 1.15 | 2.66 | 1.41 | 6.04 | 2.84 | 6.28 | 4.06 | 1.11 | 4.42 | 1.26 | 35.27 |
| 1995 | 1.76 | 0.15 | 1.49 | 4.56 | 6.30 | 3.89 | 2.61 | 3.13 | 2.01 | 3.67 | 3.23 | 0.49 | 33.29 |
| 1996 | 1.40 | 0.49 | 0.50 | 2.90 | 11.75 | 4.95 | 9.72 | 2.70 | 1.62 | 3.56 | 0.96 | 2.14 | 42.69 |
| 1997 | 1.13 | 2.83 | 1.28 | 1.90 | 5.85 | 4.66 | 1.69 | 3.40 | 1.79 | 1.44 | 1.22 | 0.84 | 28.03 |
| 1998 | 2.16 | 1.64 | 3.43 | 4.51 | 3.57 | 6.27 | 3.68 | 4.12 | 2.61 | 4.59 | 2.32 | 0.89 | 39.79 |
| 1999 | 3.11 | 1.17 | 1.14 | 7.77 | 3.36 | 5.74 | 3.41 | 3.19 | 5.29 | 0.96 | 0.71 | 1.94 | 37.79 |
| POR= 94 YRS | 1.65 | 1.37 | 2.48 | 3.43 | 3.80 | 4.44 | 3.75 | 3.78 | 3.77 | 2.70 | 2.35 | 1.68 | 35.20 |

WBAN : 94822

AVERAGE TEMPERATURE (°F) 1999 ROCKFORD, IL (RFD)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1970 | 12.5 | 22.4 | 33.1 | 48.5 | 60.4 | 68.5 | 73.6 | 71.4 | 63.6 | 52.8 | 37.7 | 26.6 | 47.6 |
| 1971 | 14.8 | 25.0 | 32.3 | 48.0 | 57.0 | 74.2 | 70.7 | 70.7 | 68.1 | 59.2 | 39.1 | 31.5 | 49.2 |
| 1972 | 17.0 | 20.5 | 32.4 | 44.5 | 62.3 | 65.8 | 71.1 | 71.3 | 63.3 | 48.9 | 36.6 | 21.6 | 46.3 |
| 1973 | 26.3 | 26.9 | 43.0 | 47.6 | 55.8 | 70.6 | 73.5 | 73.2 | 64.3 | 56.5 | 39.9 | 24.1 | 50.1 |
| 1974 | 21.2 | 24.0 | 36.2 | 50.8 | 56.6 | 66.1 | 75.3 | 70.3 | 60.1 | 52.0 | 38.0 | 26.7 | 48.1 |
| 1975 | 23.5 | 23.1 | 29.2 | 42.5 | 62.4 | 70.5 | 73.1 | 73.1 | 58.0 | 53.1 | 42.2 | 27.0 | 48.1 |
| 1976 | 16.5 | 30.8 | 38.5 | 49.7 | 55.3 | 68.8 | 73.4 | 69.4 | 60.0 | 45.1 | 28.1 | 15.0 | 45.9 |
| 1977 | 5.9 | 23.5 | 42.2 | 55.1 | 68.2 | 67.4 | 75.4 | 68.6 | 63.4 | 49.1 | 36.5 | 19.9 | 47.9 |
| 1978 | 11.3 | 12.3 | 29.3 | 47.5 | 58.9 | 69.1 | 72.3 | 71.7 | 68.1 | 49.9 | 37.9 | 21.9 | 45.9 |
| 1979 | 7.7 | 12.9 | 31.7 | 42.9 | 58.7 | 68.4 | 71.5 | 70.0 | 63.0 | 50.8 | 35.9 | 29.0 | 45.2 |
| 1980 | 19.3 | 17.1 | 30.1 | 46.4 | 60.6 | 66.7 | 75.4 | 73.7 | 64.2 | 47.3 | 38.2 | 25.4 | 47.0 |
| 1981 | 21.4 | 25.9 | 37.3 | 51.4 | 56.3 | 70.0 | 72.5 | 71.2 | 62.5 | 48.8 | 39.4 | 22.9 | 48.3 |
| 1982 | 8.9 | 19.6 | 32.8 | 44.0 | 65.5 | 64.8 | 74.6 | 69.0 | 61.8 | 53.6 | 38.1 | 33.1 | 47.2 |
| 1983 | 25.3 | 29.5 | 36.8 | 43.9 | 54.7 | 70.5 | 78.0 | 77.2 | 63.3 | 51.5 | 40.1 | 12.7 | 48.6 |
| 1984 | 16.0 | 31.9 | 28.6 | 46.9 | 55.4 | 70.9 | 70.8 | 72.8 | 61.6 | 54.6 | 37.1 | 29.2 | 48.0 |
| 1985 | 12.9 | 19.3 | 39.3 | 54.1 | 62.2 | 66.4 | 71.9 | 68.3 | 64.0 | 51.8 | 35.3 | 14.6 | 46.7 |
| 1986 | 20.9 | 22.5 | 40.0 | 52.2 | 61.4 | 68.5 | 75.3 | 67.1 | 64.9 | 51.7 | 33.4 | 28.1 | 48.8 |
| 1987 | 23.1 | 32.4 | 39.5 | 51.1 | 63.9 | 72.5 | 76.3 | 70.8 | 62.8 | 44.7 | 41.6 | 29.4 | 50.7 |
| 1988 | 16.0 | 19.7 | 36.2 | 47.7 | 62.5 | 71.3 | 76.6 | 76.4 | 65.3 | 45.2 | 39.6 | 26.3 | 48.6 |
| 1989 | 29.9 | 16.1 | 34.0 | 46.9 | 58.2 | 68.2 | 74.7 | 70.1 | 60.5 | 51.8 | 35.4 | 14.2 | 46.7 |
| 1990 | 30.1 | 28.2 | 39.9 | 48.0 | 55.7 | 69.7 | 72.0 | 71.4 | 65.4 | 50.0 | 41.8 | 23.7 | 49.7 |
| 1991 | 17.0 | 28.4 | 39.0 | 51.7 | 65.5 | 73.0 | 74.2 | 73.8 | 63.2 | 51.3 | 33.5 | 28.2 | 49.9 |
| 1992 | 26.7 | 32.2 | 37.6 | 45.9 | 59.3 | 67.5 | 69.1 | 65.6 | 61.3 | 49.5 | 36.4 | 25.8 | 48.1 |
| 1993 | 23.5 | 22.5 | 33.2 | 45.5 | 60.8 | 67.3 | 73.7 | 72.8 | 58.4 | 48.9 | 36.8 | 27.5 | 47.6 |
| 1994 | 12.6 | 17.2 | 36.4 | 50.7 | 59.8 | 71.6 | 71.1 | 67.8 | 64.6 | 52.9 | 41.2 | 30.3 | 48.0 |
| 1995 | 20.1 | 24.2 | 38.1 | 44.8 | 57.9 | 72.2 | 74.7 | 77.1 | 60.4 | 51.4 | 30.0 | 23.3 | 47.9 |
| 1996 | 18.5 | 23.0 | 29.8 | 45.2 | 55.5 | 68.8 | 69.1 | 71.2 | 62.4 | 50.9 | 30.3 | 24.2 | 45.7 |
| 1997 | 16.6 | 26.5 | 37.2 | 44.2 | 53.5 | 69.1 | 72.2 | 68.5 | 63.1 | 52.1 | 34.4 | 27.7 | 47.1 |
| 1998 | 26.2 | 36.6 | 37.8 | 48.9 | 64.2 | 67.9 | 71.8 | 72.4 | 66.6 | 53.2 | 41.7 | 31.9 | 51.6 |
| 1999 | 18.5 | 32.5 | 34.6 | 49.7 | 61.7 | 69.9 | 76.8 | 68.7 | 61.3 | 50.7 | 43.2 | 26.8 | 49.5 |
| POR= 93 YRS | 20.6 | 24.6 | 35.3 | 48.2 | 59.5 | 69.1 | 73.7 | 71.8 | 63.8 | 52.2 | 38.2 | 25.4 | 48.5 |

HEATING DEGREE DAYS (base 65°F) 1999 ROCKFORD, IL (RFD)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1970-71 | 5 | 2 | 117 | 377 | 812 | 1182 | 1549 | 1114 | 1007 | 504 | 258 | 5 | 6932 |
| 1971-72 | 14 | 5 | 95 | 209 | 771 | 1031 | 1483 | 1287 | 1006 | 606 | 164 | 79 | 6750 |
| 1972-73 | 17 | 26 | 119 | 491 | 845 | 1338 | 1193 | 1061 | 675 | 520 | 281 | 2 | 6568 |
| 1973-74 | 0 | 3 | 99 | 281 | 744 | 1260 | 1354 | 1142 | 887 | 427 | 277 | 59 | 6533 |
| 1974-75 | 0 | 5 | 175 | 400 | 804 | 1179 | 1277 | 1166 | 1107 | 668 | 150 | 29 | 6960 |
| 1975-76 | 12 | 0 | 225 | 376 | 678 | 1172 | 1499 | 986 | 813 | 473 | 296 | 16 | 6546 |
| 1976-77 | 2 | 17 | 174 | 615 | 1100 | 1545 | 1830 | 1158 | 697 | 318 | 73 | 42 | 7571 |
| 1977-78 | 0 | 20 | 88 | 488 | 849 | 1393 | 1658 | 1471 | 1101 | 519 | 259 | 29 | 7875 |
| 1978-79 | 2 | 7 | 66 | 461 | 806 | 1333 | 1771 | 1458 | 1026 | 658 | 245 | 27 | 7860 |
| 1979-80 | 9 | 26 | 120 | 450 | 866 | 1110 | 1411 | 1380 | 1073 | 556 | 184 | 63 | 7248 |
| 1980-81 | 0 | 3 | 99 | 538 | 796 | 1222 | 1346 | 1089 | 851 | 402 | 275 | 9 | 6630 |
| 1981-82 | 9 | 6 | 109 | 493 | 761 | 1296 | 1739 | 1268 | 990 | 623 | 74 | 61 | 7429 |
| 1982-83 | 0 | 32 | 156 | 362 | 801 | 984 | 1224 | 987 | 867 | 627 | 316 | 34 | 6390 |
| 1983-84 | 6 | 0 | 148 | 423 | 742 | 1615 | 1515 | 952 | 1123 | 542 | 302 | 7 | 7375 |
| 1984-85 | 9 | 9 | 180 | 322 | 833 | 1101 | 1609 | 1277 | 789 | 368 | 127 | 55 | 6679 |
| 1985-86 | 2 | 14 | 157 | 402 | 885 | 1553 | 1362 | 1187 | 771 | 397 | 138 | 35 | 6903 |
| 1986-87 | 2 | 42 | 91 | 402 | 942 | 1135 | 1290 | 905 | 781 | 418 | 143 | 11 | 6162 |
| 1987-88 | 2 | 32 | 108 | 623 | 695 | 1096 | 1513 | 1308 | 887 | 514 | 131 | 23 | 6932 |
| 1988-89 | 0 | 8 | 66 | 605 | 755 | 1193 | 1081 | 1364 | 954 | 537 | 246 | 36 | 6845 |
| 1989-90 | 0 | 10 | 164 | 403 | 881 | 1570 | 1074 | 1026 | 775 | 534 | 285 | 28 | 6750 |
| 1990-91 | 2 | 5 | 115 | 475 | 690 | 1273 | 1483 | 1018 | 798 | 402 | 146 | 6 | 6413 |
| 1991-92 | 0 | 1 | 172 | 421 | 940 | 1134 | 1181 | 945 | 843 | 567 | 220 | 38 | 6462 |
| 1992-93 | 12 | 55 | 165 | 476 | 849 | 1207 | 1282 | 1183 | 977 | 581 | 167 | 71 | 7025 |
| 1993-94 | 0 | 4 | 212 | 498 | 836 | 1156 | 1622 | 1334 | 880 | 445 | 200 | 22 | 7209 |
| 1994-95 | 4 | 34 | 93 | 376 | 706 | 1070 | 1388 | 1139 | 827 | 600 | 220 | 16 | 6473 |
| 1995-96 | 6 | 0 | 181 | 418 | 1043 | 1285 | 1432 | 1213 | 1081 | 589 | 326 | 38 | 7612 |
| 1996-97 | 6 | 0 | 134 | 431 | 1032 | 1259 | 1494 | 1071 | 857 | 617 | 350 | 22 | 7273 |
| 1997-98 | 5 | 13 | 98 | 437 | 913 | 1147 | 1194 | 788 | 846 | 474 | 86 | 73 | 6074 |
| 1998-99 | 0 | 0 | 51 | 361 | 693 | 1021 | 1435 | 904 | 935 | 449 | 139 | 34 | 6022 |
| 1999- | 0 | 5 | 160 | 435 | 644 | 1178 | | | | | | | |

WBAN : 94822

COOLING DEGREE DAYS (base 65°F) 1999 ROCKFORD, IL (RFD)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1970 | 0 | 0 | 0 | 16 | 64 | 157 | 276 | 209 | 79 | 5 | 0 | 0 | 806 |
| 1971 | 0 | 0 | 0 | 1 | 16 | 288 | 197 | 190 | 193 | 35 | 0 | 0 | 920 |
| 1972 | 0 | 0 | 0 | 0 | 89 | 104 | 214 | 229 | 75 | 0 | 0 | 0 | 711 |
| 1973 | 0 | 0 | 0 | 5 | 1 | 178 | 272 | 263 | 84 | 25 | 0 | 0 | 828 |
| 1974 | 0 | 0 | 0 | 9 | 25 | 98 | 329 | 177 | 35 | 6 | 0 | 0 | 679 |
| 1975 | 0 | 0 | 0 | 0 | 75 | 201 | 273 | 258 | 22 | 15 | 0 | 0 | 844 |
| 1976 | 0 | 0 | 0 | 21 | 3 | 137 | 270 | 159 | 31 | 5 | 0 | 0 | 626 |
| 1977 | 0 | 0 | 0 | 31 | 180 | 120 | 330 | 138 | 48 | 0 | 0 | 0 | 847 |
| 1978 | 0 | 0 | 0 | 0 | 75 | 160 | 238 | 220 | 166 | 0 | 0 | 0 | 859 |
| 1979 | 0 | 0 | 0 | 0 | 56 | 134 | 217 | 187 | 69 | 16 | 0 | 0 | 679 |
| 1980 | 0 | 0 | 0 | 6 | 52 | 117 | 329 | 278 | 80 | 0 | 0 | 0 | 862 |
| 1981 | 0 | 0 | 0 | 3 | 15 | 164 | 248 | 202 | 42 | 0 | 0 | 0 | 674 |
| 1982 | 0 | 0 | 0 | 0 | 96 | 61 | 303 | 168 | 66 | 15 | 0 | 0 | 709 |
| 1983 | 0 | 0 | 0 | 0 | 4 | 207 | 416 | 386 | 104 | 10 | 0 | 0 | 1127 |
| 1984 | 0 | 0 | 0 | 3 | 12 | 189 | 195 | 257 | 87 | 5 | 0 | 0 | 748 |
| 1985 | 0 | 0 | 0 | 47 | 45 | 106 | 223 | 120 | 134 | 0 | 0 | 0 | 675 |
| 1986 | 0 | 0 | 4 | 22 | 35 | 148 | 329 | 113 | 92 | 1 | 0 | 0 | 744 |
| 1987 | 0 | 0 | 0 | 8 | 118 | 244 | 358 | 220 | 47 | 0 | 0 | 0 | 995 |
| 1988 | 0 | 0 | 0 | 0 | 58 | 221 | 365 | 369 | 81 | 0 | 0 | 0 | 1094 |
| 1989 | 0 | 0 | 0 | 2 | 43 | 138 | 308 | 173 | 37 | 3 | 0 | 0 | 704 |
| 1990 | 0 | 0 | 3 | 32 | 3 | 173 | 225 | 210 | 132 | 13 | 0 | 0 | 791 |
| 1991 | 0 | 0 | 0 | 8 | 169 | 254 | 292 | 281 | 126 | 4 | 0 | 0 | 1134 |
| 1992 | 0 | 0 | 0 | 0 | 51 | 119 | 148 | 79 | 62 | 3 | 0 | 0 | 462 |
| 1993 | 0 | 0 | 0 | 0 | 42 | 148 | 280 | 253 | 18 | 5 | 0 | 0 | 746 |
| 1994 | 0 | 0 | 0 | 23 | 45 | 224 | 200 | 127 | 86 | 5 | 0 | 0 | 710 |
| 1995 | 0 | 0 | 0 | 0 | 4 | 240 | 313 | 382 | 51 | 4 | 0 | 0 | 994 |
| 1996 | 0 | 0 | 0 | 0 | 37 | 158 | 141 | 196 | 65 | 0 | 0 | 0 | 597 |
| 1997 | 0 | 0 | 0 | 0 | 2 | 155 | 236 | 130 | 46 | 42 | 0 | 0 | 611 |
| 1998 | 0 | 0 | 8 | 0 | 72 | 166 | 217 | 234 | 105 | 1 | 0 | 0 | 803 |
| 1999 | 0 | 0 | 0 | 0 | 47 | 188 | 371 | 129 | 55 | 0 | 0 | 0 | 790 |

SNOWFALL (inches) 1999 ROCKFORD, IL (RFD)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-------|
| 1970-71 | 0.0 | 0.0 | 0.0 | 0.0 | T | 3.2 | 10.0 | 3.4 | 14.6 | 0.4 | 0.0 | 0.0 | 31.6 |
| 1971-72 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.2 | 5.5 | 7.9 | 15.7 | 2.7 | 0.0 | 0.0 | 37.0 |
| 1972-73 | 0.0 | 0.0 | 0.0 | 0.1 | 4.4 | 8.7 | 0.4 | 6.9 | 0.9 | 5.2 | 0.0 | 0.0 | 26.6 |
| 1973-74 | 0.0 | 0.0 | 0.0 | 0.0 | T | 20.0 | 12.2 | 15.1 | 2.3 | T | 0.0 | 0.0 | 49.6 |
| 1974-75 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 11.4 | 4.2 | 18.6 | 8.4 | 4.6 | 0.0 | 0.0 | 51.5 |
| 1975-76 | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 | 7.9 | 6.6 | 1.8 | 0.3 | 0.3 | T | 0.0 | 23.3 |
| 1976-77 | 0.0 | 0.0 | 0.0 | T | 4.5 | 5.8 | 8.8 | 4.3 | 7.2 | 0.8 | 0.0 | 0.0 | 31.4 |
| 1977-78 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 23.3 | 10.0 | 6.9 | 4.2 | T | 0.0 | 0.0 | 51.7 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 25.1 | 26.1 | 12.2 | 4.5 | 2.0 | 0.0 | 0.0 | 74.5 |
| 1979-80 | 0.0 | 0.0 | 0.0 | T | 4.9 | 0.9 | 5.1 | 13.0 | 4.6 | 5.4 | 0.0 | 0.0 | 33.9 |
| 1980-81 | 0.0 | 0.0 | 0.0 | 0.8 | 1.4 | 6.7 | 2.5 | 9.1 | 0.6 | 0.0 | 0.0 | 0.0 | 21.1 |
| 1981-82 | 0.0 | 0.0 | 0.0 | T | 2.8 | 5.8 | 14.8 | 1.8 | 8.1 | 7.7 | 0.0 | 0.0 | 41.0 |
| 1982-83 | 0.0 | 0.0 | 0.0 | T | T | 3.6 | 5.5 | 9.5 | 9.4 | T | 0.0 | 0.0 | 28.0 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 18.3 | 8.8 | 2.2 | 10.9 | 0.7 | 0.0 | 0.0 | 41.4 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 14.2 | 13.4 | 8.3 | 2.8 | 2.4 | 0.0 | 0.0 | 41.3 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | 5.1 | 12.5 | 8.7 | 12.3 | 0.9 | 1.2 | 0.0 | 0.0 | 40.7 |
| 1986-87 | 0.0 | 0.0 | 0.0 | T | 5.0 | 2.0 | 9.5 | T | 2.8 | T | 0.0 | 0.0 | 19.3 |
| 1987-88 | 0.0 | 0.0 | 0.0 | T | 0.6 | 21.7 | 8.7 | 9.9 | 3.4 | 0.7 | 0.0 | 0.0 | 45.0 |
| 1988-89 | 0.0 | 0.0 | 0.0 | T | 1.6 | 11.8 | 1.3 | 13.3 | 4.2 | 1.5 | T | 0.0 | 33.7 |
| 1989-90 | 0.0 | 0.0 | 0.0 | 1.0 | 3.0 | 8.6 | 9.4 | 12.0 | 0.3 | 0.2 | 0.2 | 0.0 | 34.7 |
| 1990-91 | T | T | 0.0 | T | 0.7 | 11.0 | 15.3 | 2.8 | 6.9 | T | 0.0 | 0.0 | 36.7 |
| 1991-92 | 0.0 | 0.0 | 0.0 | T | 0.7 | 13.0 | 6.0 | 1.0 | 9.7 | 0.2 | 0.0 | 0.0 | 30.6 |
| 1992-93 | T | 0.0 | 0.0 | 0.4 | 1.7 | 11.1 | 13.1 | 9.9 | 13.1 | 1.8 | 0.0 | 0.0 | 51.1 |
| 1993-94 | 0.0 | 0.0 | 0.0 | T | 0.7 | 4.9 | 14.8 | 30.2 | 0.4 | 0.5 | 0.0 | 0.0 | 51.5 |
| 1994-95 | T | 0.0 | 0.0 | 0.0 | T | 12.0 | 17.4 | 0.5 | 2.5 | T | 0.0 | 0.0 | 32.4 |
| 1995-96 | 0.0 | 0.0 | 0.0 | | 8.2 | 6.3 | 6.8 | 2.4 | 2.9 | T | 0.0 | T | |
| 1996-97 | 0.0 | 0.0 | 0.0 | | | | | | | | | | |
| 1997-98 | | | | | | | | | | | | | |
| 1998-99 | | | | | T | 0.4 | 14.3 | 0.8 | 10.4 | T | 0.0 | 0.0 | |
| 1999- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | | | | | | | |
| POR= 46 YRS | T | T | 0.0 | 0.1 | 2.5 | 9.0 | 8.8 | 6.8 | 6.3 | 1.3 | 0.0 | T | 34.8 |

WBAN : 94822

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 (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
ROCKFORD,
ILLINOIS (RFD)

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

| LOCATION | OCCUPIED FROM | OCCUPIED TO | AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE | | | | | | | | | | | * Type M = AMOS T = AUTOB S = ASOS W = AWOS | REMARKS |
|---|---------------|-------------|---|----------------|----------------|-----------------|--------|------|------|------|------|------|------|----------|------|--|---|---------|
| | | | | | | SEA LEVEL | GROUND | | | | | | | | | | | |
| | | | | | | | WIND | WIND | WIND | WIND | WIND | WIND | WIND | WIND | WIND | WIND | | |
| <u>COOPERATIVE</u> | | | | | | | | | | | | | | | | | | |
| 900 Block, North Main | 12/??/72 | 10/??/93 | | 42° 17' | 89° 05' | 720 | | | | | | | | | | | Observer, T.D. Robertson. | |
| 731 North Court Street | 11/??/93 | 12/??/12 | .25 mi. WSW | 42° 17' | 89° 05' | 720 | | | | | | | | | | | Observer, H.C. Porter. | |
| 1135 North Court Street | 01/??/13 | 06/01/18 | .5 mi. NE | 42° 17' | 89° 05' | 720 | | 5 | | | | | | | | | Observer, Dr. John R. Porter. | |
| 731 North Court Street | 06/01/18 | 07/29/20 | .5 mi. SW | 42° 17' | 89° 05' | 720 | | 5 | | | | | | | | | Observer, Carson H. Porter. | |
| 324 Churchill Street | 07/30/20 | 09/23/53 | .75 mi. NE | 42° 17' | 89° 05' | 720 | | 5 | | | | | | | | | Observer, F. W. Knowlton and daughter. | |
| 2221 North Winnebago | 09/24/53 | 06/30/57 | 1.1 mi. NW | 42° 18' | 89° 06' | 740 | | 5 | | | | | | | | | New residence. | |
| <u>AIRPORT</u> | | | | | | | | | | | | | | | | | | |
| Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O. | 12/19/50 | 11/04/58 | | 42° 12' | 89° 06' | 725 | 33 | 5 | 5 | | | | | | | | Observations by CAA personnel. | |
| Greater Rockford AP | 11/05/58 | 07/01/95 | 35 ft. E | 42° 12' | 89° 06' | #724 | a20 | 6 | 5 | NA | e20 | b6 | c4 | d4 f4 | NA | First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 53 to 12/6/62. b - 53 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85. | | |
| Greater Rockford AP | 07/01/95 | Present | NA | 42°12' | 89°06' | 727 | | | | | | | | | S | ASOS Commissioned 07/01/95 | | |

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