

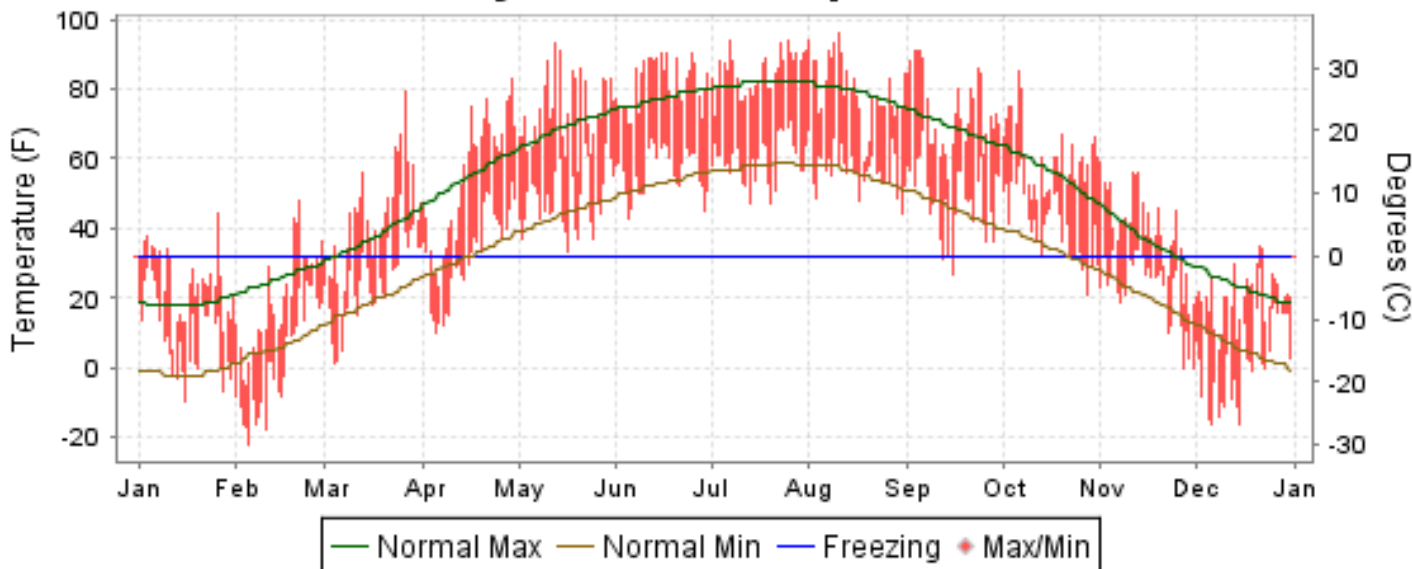


2007 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

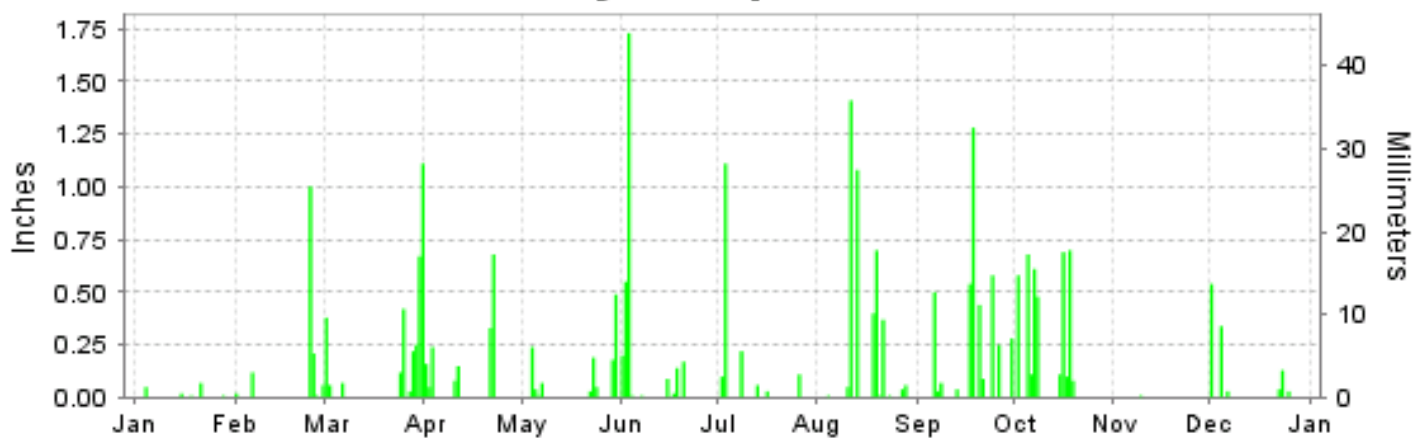
ISSN 0198-277X

ST CLOUD, MINNESOTA (KSTC)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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.

NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2007

ST CLOUD (KSTC)

LATITUDE: 45° 32'N LONGITUDE: -94° 3'W ELEVATION (FT): GRND: 1018 BARO: 1024 TIME ZONE: CENTRAL (UTC -6) WBAN: 14926

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|--------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|----|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 24.7 | 19.6 | 43.2 | 55.0 | 73.9 | 81.6 | 84.8 | 79.5 | 73.6 | 60.6 | 39.9 | 20.4 | 54.7 | |
| | HIGHEST DAILY MAXIMUM | 44 | 48 | 79 | 83 | 93 | 90 | 94 | 96 | 91 | 85 | 59 | 35 | 96 | |
| | DATE OF OCCURRENCE | 26 | 21 | 26 | 29 | 13 | 25+ | 25+ | 10 | 05+ | 06 | 01 | 21 | AUG 10 | |
| | MEAN DAILY MINIMUM | 9.5 | 1.8 | 24.7 | 32.5 | 48.3 | 56.5 | 59.8 | 56.9 | 48.5 | 41.1 | 22.5 | 2.6 | 33.7 | |
| | LOWEST DAILY MINIMUM | -10 | -22 | 1 | 10 | 33 | 43 | 47 | 44 | 27 | 21 | 0 | -16 | -22 | |
| | DATE OF OCCURRENCE | 16 | 05 | 04 | 05 | 17 | 05 | 20+ | 30 | 15 | 28 | 30+ | 15+ | FEB 05 | |
| | AVERAGE DRY BULB | 17.1 | 10.7 | 34.0 | 43.8 | 61.1 | 69.1 | 72.3 | 68.2 | 61.1 | 50.9 | 31.2 | 11.5 | 44.3 | |
| | MEAN WET BULB | 15.7 | 9.7 | 31.0 | 37.2 | 53.1 | 61.0 | 64.3 | 61.8 | 55.3 | 46.3 | 27.7 | 11.8 | 39.6 | |
| | MEAN DEW POINT | 10.3 | 2.7 | 25.8 | 27.9 | 45.5 | 55.2 | 58.8 | 57.4 | 50.2 | 41.3 | 20.2 | 8.2 | 33.6 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM >= 90° | 0 | 0 | 0 | 0 | 2 | 3 | 7 | 5 | 3 | 0 | 0 | 0 | 0 | 20 |
| | MAXIMUM <= 32° | 24 | 24 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 29 | 94 | |
| | MINIMUM <= 32° | 31 | 28 | 22 | 13 | 0 | 0 | 0 | 0 | 3 | 9 | 27 | 31 | 164 | |
| MINIMUM <= 0° | 8 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 | 37 | | |
| H/C | HEATING DEGREE DAYS | 1477 | 1492 | 955 | 636 | 174 | 26 | 2 | 30 | 184 | 441 | 1009 | 1649 | 8075 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 4 | 63 | 155 | 238 | 137 | 74 | 12 | 0 | 0 | 683 | |
| RH | MEAN (PERCENT) | 73 | 68 | 73 | 57 | 60 | 63 | 64 | 71 | 69 | 72 | 64 | 81 | 68 | |
| | HOUR 00 LST | 77 | 73 | 80 | 65 | 68 | 78 | 79 | 83 | 78 | 76 | 69 | 83 | 76 | |
| | HOUR 06 LST | 79 | 75 | 81 | 73 | 73 | 80 | 84 | 90 | 86 | 84 | 72 | 84 | 80 | |
| | HOUR 12 LST | 67 | 60 | 65 | 45 | 49 | 48 | 49 | 57 | 56 | 62 | 55 | 78 | 58 | |
| | HOUR 18 LST | 69 | 64 | 66 | 45 | 48 | 51 | 48 | 57 | 58 | 65 | 60 | 78 | 59 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY <= 1/4 MI) | 0 | 3 | 6 | 1 | 2 | 0 | 3 | 4 | 3 | 2 | 0 | 6 | 30 | |
| | THUNDERSTORMS | 0 | 0 | 0 | 1 | 1 | 5 | 2 | 4 | 6 | 3 | 0 | 0 | 22 | |
| CLOUDNESS | 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.) | 28.92 | 28.94 | 28.93 | 28.89 | 28.89 | 29.08 | 28.87 | 28.87 | 28.86 | 28.83 | 28.92 | 28.92 | 28.91 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.09 | 30.12 | 30.07 | 30.03 | 30.01 | 30.18 | 29.97 | 29.97 | 29.98 | 29.96 | 30.09 | 30.10 | 30.05 | |
| WINDS | RESULTANT SPEED (MPH) | 3.7 | 2.8 | 0.9 | 3.0 | 3.7 | 3.4 | 1.1 | 0.5 | 3.3 | 1.3 | 3.6 | 1.4 | 1.1 | |
| | RES. DIR. (TENS OF DEGS.) | 29 | 32 | 09 | 36 | 17 | 21 | 23 | 15 | 21 | 31 | 29 | 29 | 27 | |
| | MEAN SPEED (MPH) | 9.2 | 8.6 | 8.6 | 8.9 | 10.8 | 8.6 | 6.7 | 5.8 | 9.5 | 8.6 | 9.7 | 7.1 | 8.5 | |
| | PREVAIL.DIR.(TENS OF DEGS.) | 33 | 32 | 17 | 33 | 18 | 17 | 18 | 10 | 18 | 17 | 32 | 32 | 33 | |
| | MAXIMUM 2-MINUTE WIND | | | | | | | | | | | | | | |
| | SPEED (MPH) | 29 | 39 | 30 | 29 | 33 | 46 | 35 | 25 | 32 | 38 | 38 | 32 | 46 | |
| | DIR. (TENS OF DEGS.) | 32 | 30 | 32 | 32 | 16 | 26 | 32 | 02 | 30 | 32 | 31 | 32 | 26 | |
| | DATE OF OCCURRENCE | 27 | 21 | 19 | 06 | 06 | 07 | 10 | 13 | 21 | 23 | 26 | 23 | JUN 07 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 35 | 51 | 38 | 39 | 43 | 56 | 45 | 40 | 49 | 47 | 48 | 39 | 56 | |
| DIR. (TENS OF DEGS.) | 33 | 31 | 01 | 32 | 17 | 26 | 31 | 01 | 36 | 33 | 28 | 32 | 26 | | |
| DATE OF OCCURRENCE | 27 | 21 | 26 | 06 | 22 | 07 | 10 | 13 | 20 | 23 | 14 | 23 | JUN 07 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 0.16 | 1.42 | 3.33 | 1.69 | 1.30 | 2.92 | 1.63 | 4.14 | 4.10 | 4.14 | 0.01 | 1.11 | 25.95 | |
| | GREATEST 24-HOUR (IN.) | 0.07 | 1.00 | 1.11 | 1.23 | 0.49 | 1.74 | 1.14 | 1.46 | 1.82 | 1.09 | 0.01 | 0.54 | 1.82 | |
| | DATE OF OCCURRENCE | 21 | 24 | 31 | 31-01 | 30 | 02-03 | 02-03 | 10-11 | 17-18 | 07-08 | 09 | 01 | SEP 17-18 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION 0.01 | 5 | 6 | 10 | 7 | 9 | 9 | 6 | 11 | 11 | 10 | 1 | 6 | 91 | |
| PRECIPITATION 0.10 | 0 | 3 | 7 | 5 | 4 | 5 | 4 | 5 | 7 | 9 | 0 | 3 | 52 | | |
| PRECIPITATION 1.00 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 7 | | |
| SNOWFALL | SNOW,ICE PELLETS,HAIL | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 2.0 | 13.6 | 8.2 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 13.9 | 43.3 | |
| | GREATEST 24-HOUR (IN.) | 0.6 | 7.6 | 4.4 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 6.3 | 7.6 | |
| | DATE OF OCCURRENCE | 21 | 24 | 01 | 03 | | | | | | | 26+ | 01 | FEB 24 | |
| | MAXIMUM SNOW DEPTH (IN.) | 1 | 11 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | T | 8 | 13 | |
| | DATE OF OCCURRENCE | 31+ | 25 | 03+ | 04 | | | | | | | 28+ | 31+ | MAR 03+ | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| SNOWFALL >= 1.0 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 10 | | |

NORMALS, MEANS, AND EXTREMES ST CLOUD (KSTC)

LATITUDE:
45 ° 32'N

LONGITUDE:
-94 ° 3 'W

ELEVATION (FT):
GRND: 1018 BARO: 1024

TIME ZONE:
CENTRAL (UTC -6)

WBAN: 14926

| | ELEMENT | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|--|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 18.7 | 25.7 | 37.7 | 54.9 | 69.0 | 77.3 | 81.7 | 78.9 | 69.0 | 56.3 | 37.2 | 23.2 | 52.5 |
| | MEAN DAILY MAXIMUM | 110 | 19.6 | 23.4 | 37.3 | 54.3 | 68.0 | 75.6 | 82.4 | 79.2 | 69.5 | 56.5 | 37.3 | 24.6 | 52.3 |
| | HIGHEST DAILY MAXIMUM | 67 | 55 | 55 | 79 | 96 | 98 | 102 | 103 | 103 | 98 | 90 | 75 | 61 | 103 |
| | YEAR OF OCCURRENCE | | 1942 | 2000 | 2007 | 1980 | 2006 | 1988 | 1940 | 1947 | 1978 | 1992 | 1999 | 1998 | AUG 1947 |
| | MEAN OF EXTREME MAXS. | 113 | 40.0 | 44.2 | 58.2 | 78.1 | 87.3 | 92.2 | 93.5 | 92.3 | 87.5 | 78.9 | 59.7 | 43.5 | 71.3 |
| | NORMAL DAILY MINIMUM | 30 | -1.2 | 6.4 | 19.1 | 32.2 | 44.1 | 52.9 | 57.9 | 55.5 | 45.7 | 34.3 | 20.4 | 5.5 | 31.1 |
| | MEAN DAILY MINIMUM | 110 | -0.0 | 3.6 | 17.7 | 32.1 | 44.2 | 52.8 | 59.0 | 55.7 | 46.6 | 35.4 | 20.5 | 7.4 | 31.3 |
| | LOWEST DAILY MINIMUM | 67 | -43 | -40 | -32 | -3 | 19 | 32 | 40 | 33 | 18 | 5 | -20 | -41 | -43 |
| | YEAR OF OCCURRENCE | | 1977 | 1996 | 1962 | 1975 | 1967 | 1993 | 1972 | 2004 | 1974 | 1976 | 1964 | 1983 | JAN 1977 |
| | MEAN OF EXTREME MINS. | 113 | -23.8 | -18.8 | -6.4 | 16.4 | 28.7 | 39.2 | 46.6 | 42.8 | 29.9 | 19.0 | 0.4 | -15.6 | 13.2 |
| | NORMAL DRY BULB | 30 | 8.8 | 16.1 | 28.4 | 43.6 | 56.6 | 65.1 | 69.8 | 67.2 | 57.4 | 45.3 | 28.8 | 14.4 | 41.8 |
| | MEAN DRY BULB | 110 | 9.8 | 13.5 | 27.5 | 43.2 | 56.1 | 64.3 | 70.7 | 67.5 | 58.1 | 46.0 | 28.9 | 16.0 | 41.8 |
| | MEAN WET BULB | 24 | 12.1 | 16.2 | 26.8 | 38.7 | 50.4 | 59.8 | 64.2 | 62.4 | 53.9 | 41.5 | 27.5 | 16.3 | 39.2 |
| | MEAN DEW POINT | 24 | 8.0 | 11.9 | 21.3 | 31.2 | 43.8 | 55.3 | 60.6 | 59.1 | 50.0 | 36.5 | 23.7 | 12.7 | 34.5 |
| | NORMAL NO. DAYS WITH: MAXIMUM >= 90 | 30 | 0.0 | 0.0 | 0.0 | * | 0.5 | 1.8 | 3.9 | 2.4 | 0.5 | * | 0.0 | 0.0 | 9.1 |
| | MAXIMUM <= 32 | 30 | 25.8 | 18.2 | 8.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 9.9 | 23.5 | 86.7 |
| MINIMUM <= 32 | 30 | 31.0 | 27.5 | 27.2 | 15.9 | 3.4 | * | 0.0 | 0.0 | 2.5 | 13.9 | 26.7 | 30.7 | 178.8 | |
| MINIMUM <= 0 | 30 | 16.9 | 10.7 | 3.6 | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 11.1 | 44.4 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1742 | 1381 | 1135 | 637 | 285 | 79 | 19 | 49 | 253 | 604 | 1077 | 1554 | 8815 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 2 | 26 | 90 | 172 | 121 | 31 | 1 | 0 | 0 | 443 |
| RH | NORMAL (PERCENT) | 30 | | | | | | | | | | | | | |
| | hour 00 LST | 30 | | | | | | | | | | | | | |
| | hour 06 LST | 30 | | | | | | | | | | | | | 85 |
| | hour 12 LST | 30 | | | | | | | | | | | | | 61 |
| | hour 18 LST | 30 | | | | | | | | | | | | | 63 |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | MEAN NO. DAYS WITH: HEAVY FOG (VISBY <= 1/4 MI) | 25 | 2.2 | 2.4 | 3.0 | 1.4 | 1.0 | 1.5 | 1.6 | 3.0 | 2.4 | 2.1 | 2.1 | 2.7 | 25.4 |
| | THUNDERSTORMS | 35 | 0.0 | 0.1 | 0.5 | 2.6 | 4.5 | 7.6 | 7.4 | 6.7 | 4.3 | 1.9 | 0.2 | 0.0 | 35.8 |
| CLOUDNESS | MEAN: SUNRISE-SUNSET (OKTAS) | | | | 5.6 | | | 5.6 | | | | | | 7.2 | |
| | MIDNIGHT-MIDNIGHT (OKTAS) | | | | 6.4 | | | | | | | | | | |
| | MEAN NO. DAYS WITH: CLEAR | 1 | 1.0 | | 6.0 | | 4.0 | 8.0 | | | | | | | |
| | PARTLY CLOUDY | | | 1.0 | 9.0 | | 2.0 | 3.0 | | | | | | | |
| | CLOUDY | 1 | 3.0 | 5.0 | 5.0 | | 9.0 | 4.0 | | | | | | | |
| PR | MEAN STATION PRESSURE (IN) | 24 | 28.94 | 29.01 | 28.93 | 28.86 | 28.84 | 28.84 | 28.87 | 28.91 | 28.89 | 28.90 | 28.90 | 28.93 | 28.90 |
| | MEAN SEA-LEVEL PRES. (IN) | 24 | 30.12 | 30.14 | 30.08 | 29.98 | 29.95 | 29.94 | 29.97 | 30.01 | 30.00 | 30.02 | 30.05 | 30.10 | 30.03 |
| WINDS | MEAN SPEED (MPH) | 24 | 8.5 | 8.5 | 9.2 | 9.9 | 9.4 | 8.1 | 7.1 | 6.8 | 7.7 | 8.5 | 8.7 | 8.2 | 8.4 |
| | PREVAIL.DIR (TENS OF DEGS) | 13 | 33 | 33 | 32 | 33 | 33 | 19 | 19 | 19 | 19 | 32 | 32 | 32 | 33 |
| | MAXIMUM 2-MINUTE: SPEED (MPH) | 12 | 40 | 46 | 43 | 44 | 41 | 62 | 49 | 45 | 34 | 43 | 41 | 45 | 62 |
| | DIR. (TENS OF DEGS) | | 31 | 30 | 30 | 30 | 27 | 32 | 22 | 22 | 32 | 31 | 29 | 31 | 32 |
| | YEAR OF OCCURRENCE | | 2005 | 2002 | 2002 | 2000 | 2005 | 1998 | 1997 | 1996 | 1997 | 2001 | 2005 | 2004 | JUN 1998 |
| | MAXIMUM 5-SECOND SPEED (MPH) | 12 | 47 | 52 | 49 | 48 | 54 | 77 | 61 | 52 | 51 | 54 | 54 | 55 | 77 |
| | DIR. (TENS OF DEGS) | | 31 | 27 | 31 | 30 | 29 | 32 | 21 | 34 | 25 | 32 | 28 | 31 | 32 |
| | YEAR OF OCCURRENCE | | 2005 | 2002 | 2002 | 2002 | 2002 | 1998 | 1997 | 1997 | 2002 | 1996 | 2005 | 2004 | JUN 1998 |
| PRECIPITATION | NORMAL (IN) | 30 | 0.76 | 0.59 | 1.50 | 2.13 | 2.97 | 4.51 | 3.34 | 3.93 | 2.93 | 2.24 | 1.54 | 0.69 | 27.13 |
| | MAXIMUM MONTHLY (IN) | 67 | 2.52 | 2.76 | 3.43 | 8.42 | 8.01 | 10.52 | 8.00 | 7.55 | 9.48 | 6.16 | 3.83 | 2.04 | 10.52 |
| | YEAR OF OCCURRENCE | | 1969 | 1951 | 1965 | 2001 | 1962 | 1990 | 1955 | 1956 | 1985 | 1971 | 1996 | 1969 | JUN 1990 |
| | MINIMUM MONTHLY (IN) | 67 | 0.02 | 0.04 | 0.10 | 0.05 | 0.32 | 0.05 | 0.21 | 0.46 | 0.07 | 0.07 | 0.01 | 0.01 | 0.01 |
| | YEAR OF OCCURRENCE | | 1942 | 1964 | 1959 | 1987 | 1948 | 1988 | 1975 | 1950 | 1952 | 1952 | 2007 | 1943 | NOV 2007 |
| | MAXIMUM IN 24 HOURS (IN) | 67 | 0.99 | 1.83 | 1.81 | 3.74 | 3.70 | 4.06 | 2.29 | 4.62 | 5.37 | 4.11 | 2.22 | 1.38 | 5.37 |
| | YEAR OF OCCURRENCE | | 1949 | 1951 | 1957 | 2001 | 1979 | 1983 | 1972 | 1956 | 1985 | 2005 | 1977 | 1984 | SEP 1985 |
| | NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01 | 30 | 8.8 | 6.9 | 8.3 | 9.4 | 11.1 | 11.4 | 10.6 | 10.0 | 9.3 | 8.5 | 8.3 | 7.9 | 110.5 |
| PRECIPITATION >= 1.00 | 30 | 0.0 | 0.0 | 0.1 | 0.2 | 0.4 | 1.2 | 0.8 | 1.1 | 0.6 | 0.6 | 0.2 | 0.0 | 5.2 | |
| SNOWFALL | NORMAL (IN) | 30 | 10.5 | 7.2 | 8.5 | 2.9 | 0.2 | 0.0 | 0.0 | 0.0 | 0.* | 0.6 | 9.1 | 8.6 | 47.6 |
| | MAXIMUM MONTHLY (IN) | 61 | 29.9 | 21.6 | 51.7 | 11.1 | 3.2 | 0.0 | 0.0 | T | 1.8 | 6.0 | 26.9 | 25.4 | 51.7 |
| | YEAR OF OCCURRENCE | | 1975 | 1971 | 1965 | 1950 | 1971 | | | | 2006 | 1942 | 1995 | 1940 | MAR 1965 |
| | MAXIMUM IN 24 HOURS (IN) | 61 | 9.4 | 12.2 | 14.5 | 7.0 | 3.2 | 0.0 | 0.0 | T | 1.8 | 4.9 | 11.4 | 10.2 | 14.5 |
| | YEAR OF OCCURRENCE | | 1975 | 1951 | 1985 | 1994 | 1971 | | | | 2006 | 1942 | 1995 | 1975 | MAR 1985 |
| | MAXIMUM SNOW DEPTH (IN) | 53 | 30 | 30 | 35 | 27 | 1 | 0 | 0 | 0 | 0 | 3 | 14 | 18 | 35 |
| | YEAR OF OCCURRENCE | | 1969 | 1969 | 1965 | 1965 | 1954 | | | | | 1951 | 1983 | 1985 | MAR 1965 |
| NORMAL NO. DAYS WITH: SNOWFALL >= 1.0 | 30 | 3.4 | 2.6 | 2.8 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 2.5 | 3.0 | 15.4 | |

PRECIPITATION (inches) 2007 ST CLOUD (KSTC)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|-------|------|------|------|------|------|------|--------|
| 1978 | 0.19 | 0.17 | 0.81 | 3.49 | 3.20 | 6.04 | 4.43 | 2.88 | 4.59 | 0.14 | 0.95 | 1.02 | 27.91 |
| 1979 | 1.28 | 1.67 | 3.02 | 0.74 | 5.17 | 6.34 | 1.21 | 4.88 | 1.58 | 4.36 | 0.62 | 0.31 | 31.18 |
| 1980 | 1.17 | 0.84 | 0.76 | 0.48 | 1.62 | 6.06 | 1.28 | 7.01 | 5.99 | 0.71 | 0.20 | 0.22 | 26.34 |
| 1981 | 0.44 | 1.10 | 1.05 | 3.29 | 1.40 | | | | | 0.45 | 1.11 | | |
| 1982 | 0.97 | 0.13 | 1.75 | 0.97 | 3.91 | 2.53 | 3.90 | 3.37 | 4.38 | 4.52 | 2.31 | 1.72 | 30.46 |
| 1983 | 0.61 | 0.13 | 2.60 | 1.57 | 2.39 | 9.52 | 2.21 | 3.48 | 6.55 | 3.09 | 3.11 | 0.92 | 36.18 |
| 1984 | 0.67 | 0.87 | 0.65 | 4.16 | 2.02 | 8.11 | 2.94 | 2.57 | 3.39 | 5.84 | 0.17 | 1.81 | 33.20 |
| 1985 | 0.43 | 0.23 | 1.70 | 3.83 | 2.81 | 5.28 | 2.80 | 4.57 | 9.48 | 1.28 | 1.43 | 0.57 | 34.41 |
| 1986 | 0.71 | 0.79 | 0.94 | 5.55 | 2.56 | 4.02 | 7.53 | 5.23 | 6.28 | 0.42 | 1.06 | 0.33 | 35.42 |
| 1987 | 0.41 | 0.12 | 0.71 | 0.05 | 2.17 | 2.14 | 4.41 | 4.47 | 1.94 | 0.72 | 1.64 | 0.76 | 19.54 |
| 1988 | 0.51 | 0.17 | 1.39 | 0.73 | 2.22 | 0.05 | 2.64 | 5.45 | 3.19 | 0.68 | 2.75 | 0.60 | 20.38 |
| 1989 | 0.85 | 0.62 | 0.84 | 2.33 | 3.26 | 2.20 | 1.74 | 4.35 | 2.09 | 0.71 | 0.97 | 0.33 | 20.29 |
| 1990 | 0.06 | 0.66 | 3.09 | 2.68 | 3.74 | 10.52 | 5.15 | 3.38 | 1.70 | 2.70 | 0.30 | 0.68 | 34.66 |
| 1991 | 0.39 | 1.08 | 1.84 | 4.68 | 5.04 | 5.63 | 3.74 | 2.88 | 3.91 | 2.04 | 2.31 | 0.48 | 34.02 |
| 1992 | 0.69 | 0.27 | 1.49 | 1.78 | 2.20 | 3.03 | 2.95 | 1.51 | 1.00 | 1.12 | 1.39 | 0.94 | 18.37 |
| 1993 | 0.99 | 0.33 | 1.26 | 1.95 | 5.64 | 4.99 | 3.76 | 5.49 | 2.09 | 1.44 | 2.15 | 0.78 | 30.87 |
| 1994 | 1.06 | 0.63 | 0.73 | 3.92 | 1.13 | 3.27 | 4.10 | 3.15 | 3.14 | 3.12 | 0.98 | 0.51 | 25.74 |
| 1995 | 0.48 | 0.56 | 2.51 | 2.22 | 2.06 | 3.42 | 2.41 | 7.35 | 2.27 | 2.95 | 0.45 | 0.32 | 27.00 |
| 1996 | 1.38 | 0.23 | 0.64 | 0.67 | 2.96 | 1.94 | 2.72 | 2.08 | 1.20 | 2.95 | 3.83 | .99 | 21.59 |
| 1997 | 1.71 | 0.25 | 1.14 | 0.69 | 1.28 | 2.59 | 6.89 | 5.80 | 1.70 | 1.30 | 0.98 | 0.23 | 24.56 |
| 1998 | 0.79 | 0.74 | 2.77 | 1.14 | 3.65 | 4.23 | 3.31 | 3.18 | 1.25 | 1.89 | 1.53 | 0.86 | 25.34 |
| 1999 | 0.61 | 0.07 | 0.85 | 2.29 | 4.72 | 3.99 | 3.84 | 4.95 | 2.61 | 1.35 | 0.20 | 0.10 | 25.58 |
| 2000 | 0.42 | 0.82 | 1.61 | 0.98 | 2.96 | 3.10 | 3.24 | 1.20 | 0.93 | 1.60 | 3.15 | 0.28 | 20.29 |
| 2001 | 0.66 | 0.94 | 0.72 | 8.42 | 4.13 | 3.00 | 2.10 | 1.69 | 1.78 | 1.28 | 2.81 | 0.16 | 27.69 |
| 2002 | 0.28 | 0.95 | 1.06 | 3.68 | 2.06 | 4.92 | 5.10 | 5.59 | 6.67 | 3.48 | 0.15 | 0.09 | 34.03 |
| 2003 | 0.17 | 0.39 | 1.47 | 4.73 | 3.81 | 3.62 | 3.43 | 0.69 | 3.94 | 1.10 | 1.05 | 0.28 | 24.68 |
| 2004 | 0.42 | 0.80 | 1.34 | 1.29 | 6.72 | 3.67 | 3.48 | 1.63 | 5.13 | 3.37 | 0.54 | 0.46 | 28.85 |
| 2005 | 1.80 | 0.97 | 0.65 | 2.11 | 3.30 | 4.37 | 2.11 | 3.64 | 5.54 | 4.81 | 2.56 | 1.01 | 32.87 |
| 2006 | 0.34 | 0.20 | 0.97 | 4.03 | 1.59 | 2.55 | 2.10 | 3.97 | 5.09 | 1.14 | 0.72 | 1.53 | 24.23 |
| 2007 | 0.16 | 1.42 | 3.33 | 1.69 | 1.30 | 2.92 | 1.63 | 4.14 | 4.10 | 4.14 | 0.01 | 1.11 | 25.95 |
| POR= 113 YRS | 0.73 | 0.68 | 1.32 | 2.26 | 3.35 | 4.28 | 3.43 | 3.60 | 3.08 | 2.01 | 1.22 | 0.68 | 26.64 |

WBAN : 14926

AVERAGE TEMPERATURE (°F) 2007 ST CLOUD (KSTC)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1978 | 3.4 | 9.1 | 27.2 | 42.0 | 58.3 | 64.3 | 68.2 | 67.9 | 62.4 | 46.1 | 27.6 | 9.0 | 40.5 |
| 1979 | -2.5 | 5.1 | 24.3 | 39.2 | 51.2 | 63.5 | 69.0 | 65.1 | 58.5 | 44.7 | 28.7 | 22.9 | 39.1 |
| 1980 | 10.8 | 11.7 | 23.2 | 47.4 | 58.9 | 64.1 | 71.2 | 67.2 | 56.4 | 42.7 | 33.4 | 16.7 | 42.0 |
| 1981 | 15.3 | 20.9 | 35.5 | 46.2 | 54.9 | | | | | | 35.4 | 14.0 | |
| 1982 | -3.1 | 12.1 | 24.5 | 40.9 | 59.2 | 59.6 | 70.6 | 67.2 | 57.1 | 47.5 | 25.6 | 21.8 | 40.3 |
| 1983 | 14.2 | 23.8 | 31.2 | 40.6 | 51.5 | 64.3 | 73.6 | 73.4 | 59.4 | 46.2 | 31.9 | -0.4 | 42.5 |
| 1984 | 9.2 | 25.7 | 23.0 | 45.7 | 54.6 | 66.5 | 70.1 | 70.5 | 53.7 | 49.0 | 30.8 | 13.9 | 42.7 |
| 1985 | 7.3 | 13.8 | 33.0 | 49.1 | 59.7 | 60.7 | 69.0 | 63.8 | 55.8 | 44.1 | 21.1 | 4.0 | 40.1 |
| 1986 | 14.5 | 12.0 | 30.6 | 47.8 | 57.3 | 65.1 | 70.7 | 63.9 | 57.0 | 46.1 | 25.7 | 19.9 | 42.6 |
| 1987 | 17.8 | 28.9 | 35.7 | 50.9 | 59.6 | 68.2 | 73.4 | 65.7 | 59.3 | 41.8 | 34.7 | 21.3 | 46.4 |
| 1988 | 6.8 | 10.2 | 30.8 | 44.5 | 63.6 | 71.1 | 74.6 | 70.3 | 58.8 | 40.8 | 29.1 | 16.0 | 43.1 |
| 1989 | 16.0 | 4.6 | 23.6 | 42.5 | 55.3 | 64.8 | 72.7 | 68.5 | 57.8 | 46.4 | 24.9 | 7.7 | 40.4 |
| 1990 | 22.0 | 19.0 | 32.2 | 43.9 | 53.9 | 66.6 | 68.1 | 67.4 | 59.9 | 44.1 | 33.5 | 13.7 | 43.7 |
| 1991 | 8.8 | 22.1 | 31.6 | 46.3 | 60.5 | 68.3 | 69.5 | 69.1 | 56.5 | 43.8 | 22.2 | 17.4 | 43.0 |
| 1992 | 18.5 | 24.6 | 30.9 | 41.4 | 57.8 | 61.8 | 63.1 | 63.2 | 56.7 | 43.9 | 28.8 | 16.6 | 42.3 |
| 1993 | 10.8 | 14.0 | 25.9 | 41.6 | 54.3 | 62.1 | 67.6 | 67.4 | 51.7 | 43.3 | 27.0 | 17.5 | 40.3 |
| 1994 | 0.1 | 8.7 | 31.4 | 42.9 | 58.0 | 66.4 | 67.5 | 64.7 | 60.8 | 49.8 | 34.2 | 19.9 | 42.0 |
| 1995 | 13.4 | 13.5 | 30.9 | 38.9 | 54.1 | 68.3 | 70.2 | 70.7 | 56.7 | 44.8 | 23.9 | 14.6 | 41.7 |
| 1996 | 2.4 | 12.7 | 20.8 | 38.2 | 53.7 | 66.2 | 67.3 | 67.6 | 59.1 | 45.7 | 22.5 | 9.7 | 38.8 |
| 1997 | 6.3 | 16.0 | 25.1 | 41.2 | 51.1 | 68.1 | 68.7 | 65.3 | 60.4 | 47.6 | 25.6 | 24.0 | 41.6 |
| 1998 | 15.4 | 29.6 | 30.1 | 48.7 | 62.1 | 63.3 | 70.0 | 69.2 | 62.9 | 49.1 | 33.7 | 20.9 | 46.3 |
| 1999 | 8.5 | 25.0 | 31.7 | 45.5 | 58.4 | 65.8 | 72.6 | 67.3 | 57.1 | 45.7 | 37.4 | 22.2 | 44.8 |
| 2000 | 11.7 | 22.0 | 37.5 | 43.2 | 58.0 | 62.2 | 69.2 | 68.8 | 57.6 | 48.2 | 28.6 | 3.9 | 42.6 |
| 2001 | 16.0 | 6.3 | 23.6 | 44.5 | 57.5 | 66.3 | 72.0 | 70.4 | 57.9 | 45.8 | 41.8 | 23.9 | 43.8 |
| 2002 | 21.2 | 25.2 | 18.6 | 42.0 | 51.5 | 68.5 | 72.9 | 66.9 | 61.2 | 38.1 | 29.8 | 23.2 | 43.3 |
| 2003 | 12.5 | 11.0 | 27.2 | 44.5 | 55.3 | 64.7 | 69.6 | 70.6 | 58.6 | 48.2 | 28.0 | 22.3 | 42.7 |
| 2004 | 7.4 | 17.4 | 32.8 | 46.0 | 53.7 | 62.7 | 67.9 | 62.3 | 64.1 | 47.7 | 34.6 | 19.6 | 43.0 |
| 2005 | 11.0 | 22.7 | 29.1 | 48.8 | 54.5 | 70.1 | 73.0 | 68.1 | 63.3 | 48.8 | 33.2 | 18.1 | 45.1 |
| 2006 | 25.5 | 14.5 | 32.2 | 49.9 | 59.4 | 67.5 | 75.1 | 69.0 | 56.6 | 43.0 | 33.1 | 25.6 | 46.0 |
| 2007 | 17.1 | 10.7 | 34.0 | 43.8 | 61.1 | 69.1 | 72.3 | 68.2 | 61.1 | 50.9 | 31.2 | 11.5 | 44.3 |
| POR= 110 YRS | 9.8 | 13.5 | 27.5 | 43.2 | 56.1 | 64.3 | 70.7 | 67.5 | 58.1 | 46.0 | 28.9 | 16.0 | 41.8 |

HEATING DEGREE DAYS (base 65°F) 2007 ST CLOUD (KSTC)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1978-79 | 31 | 26 | 175 | 579 | 1115 | 1736 | 2093 | 1677 | 1260 | 767 | 438 | 87 | 9984 |
| 1979-80 | 8 | 79 | 220 | 623 | 1081 | 1297 | 1679 | 1540 | 1286 | 529 | 227 | 83 | 8652 |
| 1980-81 | 4 | 35 | 279 | 683 | 939 | 1491 | 1535 | 1230 | 906 | 556 | 314 | | |
| 1981-82 | | | | | 883 | 1577 | 2115 | 1479 | 1251 | 717 | 192 | 168 | |
| 1982-83 | 13 | 63 | 255 | 534 | 1176 | 1333 | 1568 | 1148 | 1044 | 723 | 412 | 114 | 8383 |
| 1983-84 | 8 | 0 | 229 | 579 | 987 | 2026 | 1729 | 1135 | 1293 | 571 | 325 | 34 | 8916 |
| 1984-85 | 16 | 29 | 348 | 492 | 1021 | 1580 | 1785 | 1431 | 984 | 475 | 185 | 162 | 8508 |
| 1985-86 | 8 | 76 | 300 | 642 | 1314 | 1892 | 1559 | 1480 | 1061 | 508 | 269 | 82 | 9191 |
| 1986-87 | 0 | 94 | 252 | 580 | 1170 | 1390 | 1454 | 1002 | 899 | 426 | 221 | 50 | 7538 |
| 1987-88 | 8 | 65 | 179 | 713 | 905 | 1348 | 1801 | 1585 | 1057 | 609 | 112 | 23 | 8405 |
| 1988-89 | 1 | 39 | 202 | 744 | 1071 | 1514 | 1513 | 1689 | 1276 | 669 | 305 | 88 | 9111 |
| 1989-90 | 0 | 23 | 231 | 576 | 1198 | 1773 | 1325 | 1281 | 1010 | 653 | 346 | 55 | 8471 |
| 1990-91 | 18 | 41 | 204 | 642 | 939 | 1591 | 1739 | 1197 | 1029 | 554 | 219 | 23 | 8196 |
| 1991-92 | 16 | 23 | 285 | 651 | 1279 | 1472 | 1437 | 1167 | 1048 | 703 | 259 | 133 | 8473 |
| 1992-93 | 83 | 110 | 252 | 648 | 1079 | 1495 | 1679 | 1425 | 1208 | 695 | 328 | 117 | 9119 |
| 1993-94 | 21 | 38 | 400 | 667 | 1134 | 1470 | 2013 | 1573 | 1031 | 655 | 233 | 47 | 9282 |
| 1994-95 | 18 | 85 | 169 | 462 | 918 | 1390 | 1593 | 1437 | 1047 | 778 | 332 | 72 | 8301 |
| 1995-96 | 12 | 2 | 271 | 623 | 1228 | 1558 | 1940 | 1516 | 1366 | 798 | 355 | 66 | 9735 |
| 1996-97 | 17 | 18 | 223 | 593 | 1269 | 1709 | 1812 | 1366 | 1232 | 708 | 421 | 14 | 9382 |
| 1997-98 | 50 | 66 | 158 | 553 | 1175 | 1263 | 1527 | 985 | 1073 | 483 | 134 | 125 | 7592 |
| 1998-99 | 6 | 4 | 137 | 486 | 932 | 1363 | 1745 | 1114 | 1025 | 577 | 219 | 96 | 7704 |
| 1999-00 | 3 | 21 | 271 | 595 | 820 | 1318 | 1647 | 1240 | 844 | 646 | 248 | 135 | 7788 |
| 2000-01 | 29 | 15 | 243 | 513 | 1083 | 1891 | 1512 | 1638 | 1278 | 618 | 244 | 76 | 9140 |
| 2001-02 | 22 | 13 | 234 | 588 | 690 | 1266 | 1348 | 1107 | 1433 | 688 | 430 | 47 | 7866 |
| 2002-03 | 4 | 30 | 183 | 827 | 1051 | 1292 | 1621 | 1508 | 1164 | 616 | 297 | 74 | 8667 |
| 2003-04 | 6 | 16 | 236 | 523 | 1101 | 1317 | 1779 | 1372 | 992 | 569 | 345 | 107 | 8363 |
| 2004-05 | 39 | 121 | 107 | 530 | 905 | 1399 | 1665 | 1174 | 1106 | 484 | 323 | 1 | 7854 |
| 2005-06 | 9 | 29 | 110 | 504 | 948 | 1451 | 1220 | 1406 | 1007 | 446 | 247 | 41 | 7418 |
| 2006-07 | 0 | 2 | 264 | 677 | 950 | 1214 | 1477 | 1492 | 955 | 636 | 174 | 26 | 7867 |
| 2007- | 2 | 30 | 184 | 441 | 1009 | 1649 | | | | | | | |

WBAN : 14926

COOLING DEGREE DAYS (base 65°F) 2007 ST CLOUD (KSTC)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1978 | 0 | 0 | 0 | 0 | 39 | 80 | 136 | 125 | 107 | 0 | 0 | 0 | 487 |
| 1979 | 0 | 0 | 0 | 0 | 14 | 52 | 140 | 87 | 31 | 0 | 0 | 0 | 324 |
| 1980 | 0 | 0 | 0 | 6 | 44 | 61 | 202 | 111 | 27 | 0 | 0 | 0 | 451 |
| 1981 | 0 | 0 | 0 | 0 | 9 | | | | | 0 | 0 | 0 | |
| 1982 | 0 | 0 | 0 | 0 | 16 | 14 | 194 | 138 | 24 | 0 | 0 | 0 | 386 |
| 1983 | 0 | 0 | 0 | 0 | 0 | 98 | 284 | 268 | 66 | 1 | 0 | 0 | 717 |
| 1984 | 0 | 0 | 0 | 0 | 8 | 84 | 180 | 210 | 13 | 1 | 0 | 0 | 496 |
| 1985 | 0 | 0 | 0 | 4 | 28 | 42 | 138 | 47 | 32 | 0 | 0 | 0 | 291 |
| 1986 | 0 | 0 | 0 | 0 | 37 | 92 | 182 | 64 | 19 | 0 | 0 | 0 | 394 |
| 1987 | 0 | 0 | 0 | 8 | 59 | 152 | 279 | 92 | 14 | 0 | 0 | 0 | 604 |
| 1988 | 0 | 0 | 0 | 0 | 76 | 211 | 304 | 208 | 22 | 0 | 0 | 0 | 821 |
| 1989 | 0 | 0 | 0 | 0 | 14 | 90 | 248 | 142 | 21 | 6 | 0 | 0 | 521 |
| 1990 | 0 | 0 | 0 | 25 | 8 | 110 | 121 | 121 | 60 | 0 | 0 | 0 | 445 |
| 1991 | 0 | 0 | 0 | 0 | 86 | 130 | 167 | 155 | 37 | 0 | 0 | 0 | 575 |
| 1992 | 0 | 0 | 0 | 0 | 42 | 45 | 34 | 62 | 9 | 0 | 0 | 0 | 192 |
| 1993 | 0 | 0 | 0 | 0 | 4 | 40 | 113 | 121 | 3 | 0 | 0 | 0 | 281 |
| 1994 | 0 | 0 | 0 | 0 | 24 | 97 | 101 | 82 | 51 | 0 | 0 | 0 | 355 |
| 1995 | 0 | 0 | 0 | 0 | 1 | 177 | 181 | 184 | 29 | 6 | 0 | 0 | 578 |
| 1996 | 0 | 0 | 0 | 0 | 13 | 111 | 95 | 106 | 54 | 2 | 0 | 0 | 381 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 113 | 172 | 81 | 27 | 18 | 0 | 0 | 411 |
| 1998 | 0 | 0 | 0 | 0 | 50 | 80 | 164 | 142 | 81 | 0 | 0 | 0 | 517 |
| 1999 | 0 | 0 | 0 | 0 | 22 | 127 | 245 | 99 | 42 | 0 | 0 | 0 | 535 |
| 2000 | 0 | 0 | 0 | 0 | 38 | 55 | 165 | 140 | 25 | 0 | 0 | 0 | 423 |
| 2001 | 0 | 0 | 0 | 7 | 17 | 121 | 248 | 189 | 28 | 0 | 0 | 0 | 610 |
| 2002 | 0 | 0 | 0 | 6 | 21 | 157 | 253 | 96 | 75 | 0 | 0 | 0 | 608 |
| 2003 | 0 | 0 | 0 | 8 | 2 | 73 | 157 | 197 | 50 | 8 | 0 | 0 | 495 |
| 2004 | 0 | 0 | 0 | 4 | 4 | 49 | 135 | 48 | 87 | 0 | 0 | 0 | 327 |
| 2005 | 0 | 0 | 0 | 5 | 4 | 159 | 260 | 133 | 64 | 11 | 0 | 0 | 636 |
| 2006 | 0 | 0 | 0 | 0 | 77 | 118 | 320 | 132 | 19 | 5 | 0 | 0 | 671 |
| 2007 | 0 | 0 | 0 | 4 | 63 | 155 | 238 | 137 | 74 | 12 | 0 | 0 | 683 |

SNOWFALL (inches) 2007 ST CLOUD (KSTC)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1978-79 | 0.0 | 0.0 | 0.0 | T | 4.7 | 17.8 | 17.8 | 13.8 | 12.1 | 0.4 | 0.3 | 0.0 | 66.9 |
| 1979-80 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 1.9 | 14.4 | 9.1 | 12.0 | 1.8 | T | 0.0 | 44.2 |
| 1980-81 | 0.0 | 0.0 | 0.0 | T | 0.6 | 1.8 | 6.7 | 5.5 | T | 1.9 | 0.0 | 0.0 | |
| 1981-82 | | | | | 0.0 | 0.0 | 18.1 | 2.6 | 12.1 | 1.6 | 0.0 | 0.0 | |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.5 | 16.9 | 13.9 | 4.9 | 1.7 | 9.3 | 6.1 | 0.0 | 0.0 | 53.3 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.7 | 25.0 | 11.0 | 10.0 | 6.5 | 10.2 | 0.2 | 0.0 | 0.0 | 63.6 |
| 1984-85 | 0.0 | 0.0 | T | 1.2 | 0.9 | 8.0 | 8.6 | 4.1 | 22.8 | T | 0.0 | 0.0 | 45.6 |
| 1985-86 | 0.0 | 0.0 | T | 0.0 | 18.3 | 10.9 | 11.2 | 11.5 | 6.7 | 0.0 | 0.0 | 0.0 | 58.6 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.1 | 6.9 | 3.9 | 3.9 | 1.5 | 0.4 | T | 0.0 | 0.0 | 16.7 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 1.5 | 5.4 | 8.2 | 7.6 | 2.9 | 6.3 | 0.2 | 0.0 | 0.0 | 32.1 |
| 1988-89 | | | | | 18.2 | 9.0 | 12.6 | 11.2 | 13.1 | 1.0 | T | 0.0 | |
| 1989-90 | 0.0 | 0.0 | T | 0.0 | 12.9 | 4.0 | 0.1 | 10.3 | 2.8 | 2.4 | 0.0 | 0.0 | 32.5 |
| 1990-91 | 0.0 | 0.0 | 0.0 | T | 1.6 | 7.8 | 5.1 | 15.9 | 6.1 | 9.4 | 0.3 | 0.0 | 46.2 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 3.1 | 21.3 | 8.5 | 7.2 | 2.7 | 5.7 | 6.0 | 0.0 | 0.0 | 54.5 |
| 1992-93 | 0.0 | 0.0 | 0.0 | 1.4 | 14.1 | 9.7 | 15.6 | 4.0 | 7.5 | 7.2 | T | 0.0 | 59.5 |
| 1993-94 | 0.0 | 0.0 | 0.0 | 0.1 | 13.5 | 9.3 | 19.9 | 11.5 | 3.7 | 7.0 | 0.0 | 0.0 | 65.0 |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 | 7.1 | 5.6 | 6.4 | 16.1 | 3.7 | 0.0 | 0.0 | |
| 1995-96 | 0.0 | 0.0 | 0.2 | 6.0 | 6.6 | 9.4 | 21.9 | 3.5 | 9.4 | 2.6 | 0.0 | 0.0 | 59.6 |
| 1996-97 | 0.0 | 0.0 | 0.0 | T | 13.4 | | | | | | | | |
| 1997-98 | | | | | | | | | | | | | |
| 1998-99 | | | | | | | | | | | | | |
| 1999-00 | | | | | | | | | | | | | |
| 2000-01 | | | | | | | | | | | | | |
| 2001-02 | | | | | | | | | | | | | |
| 2002-03 | | | | | | | 3.1 | 8.8 | 9.6 | 1.7 | 0.0 | 0.0 | |
| 2003-04 | 0.0 | 0.0 | 0.0 | T | 13.2 | 7.1 | 11.7 | 9.3 | 8.9 | T | 0.0 | 0.0 | 50.2 |
| 2004-05 | 0.0 | 0.0 | 0.0 | T | 0.2 | 2.0 | 15.0 | 8.9 | 1.0 | T | 0.1 | 0.0 | 27.2 |
| 2005-06 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 15.1 | 3.8 | 3.7 | 6.2 | 0.0 | 0.0 | 0.0 | 33.4 |
| 2006-07 | 0.0 | T | 0.0 | T | 0.3 | 2.4 | 2.0 | 13.6 | 8.2 | 5.1 | 0.0 | 0.0 | 31.6 |
| 2007- | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 13.9 | | | | | | | |
| POR= 66 YRS | 0.0 | T | T | 0.5 | 6.5 | 7.2 | 8.3 | 6.8 | 8.4 | 2.3 | 0.1 | 0.0 | 40.1 |

WBAN : 14926

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> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> |
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2007 SAINT CLOUD MINNESOTA (KSTC)

St. Cloud is located in central Minnesota on the banks of the Mississippi River. The topography is gently rolling terrain with numerous lakes and wooded areas.

The climate is influenced by atmospheric moisture flowing into the state from the Gulf of Mexico and the Pacific coast. Air masses carrying moisture which is eventually released as precipitation may travel nearly 1,500 miles. Due to this long trek, a minor change in the wind system can result in the area receiving well below or well above the normal precipitation. Rainfall is generally ample for farm and garden crops. Although the total amount is important, its distribution during the average 140 day growing season from mid-May to the end of September is even more significant. Thunderstorms are the principal source of rainfall during this period.

Spring, summer, and fall are very pleasant. Prolonged periods of hot and humid weather are infrequent. Extremely hot days with temperatures of 100 degrees or higher occur only once every five to ten years and rarely are temperatures this high recorded on successive days. Tornadoes and severe local storms are common.

Winter is cold, but not unpleasant, since strong winds and high humidities are generally absent on the coldest days. Cold Canadian air masses are prevalent throughout the winter season. The normal winter will have five to ten days with temperatures in the -20 to -30 degree range. Heavy snowfalls do occur, but the northern location limits the numerous heavy snowfalls that occur just a short distance to the south. Snowfalls of 3 inches or more in a 24 hour period occur only on an average of four times per year. Snow generally remains on the ground from the onset of the winter season until spring. Blizzards occur on the average of once per year with a severe blizzard once every three or four years. Ice storms are infrequent because temperatures are usually too cold and the transition period from season to season is rather abrupt.

Station Location

ST CLOUD

| LOCATION | Occupied From | Occupied To | Airline Distances and Directions from previous Location | Latitude | | Longitude | | ELEVATION ABOVE | | | | | | | | REMARKS |
|---|---------------|-------------|---|----------|---------|-------------------------|-----------------|----------------------|--------------|-----------------|---------------------------|---------------------|-------------------|------------------|---|---------|
| | | | | NORTH | WEST | GROUND TEMPERATURE SITE | WIND INSTRUMENT | GROUND | | | | | | HYGROTHERMOMETER | AUTOMATIC OBSERVING EQUIPMENT * | |
| | | | | | | | | EXTREME THERMOMETERS | PSYCHROMETER | SUNSHINE SWITCH | TIPPING BUCKET RAIN GAUGE | WEIGHING RAIN GAUGE | 8 INCH RAIN GAUGE | | | |
| *NOTE: | | | | | | | | | | | | | | | | |
| AIRPORT | | | | | | | | | | | | | | | | |
| Saint Cloud Municipal Airport, Whitney Memorial | 2/25/36 | 2/28/47 | 4 mi. NW | 45° 35' | 94° 11' | 1034 | 22 | 5 | 4 | | | | # | 4 | #. Added after 1940; 8" gage data used for record. | |
| Saint Cloud Municipal Airport, Whitney Memorial | 3/01/47 | 2/14/72 | 200' N | 45° 35' | 94° 11' | 1034 | a46 | 5 | 5 | | | | b6 | | Cotton region shelter replaced with large size shelter 10/22/51. Winds from SW through NW reduced somewhat due to hangars constructed in 1946. a. 36 ft. to 10/8/63. b. 4 ft. to 7/12/60; data used for record from 6/1/51. | |
| Municipal Airport | 2/14/72 | 06/01/95 | 5.4 mi. SE | 45° 33' | 94° 04' | 1028 | 20 | 5 d5 | 5 d5 | | | | 6 | 6 | c5 c. Commissioned 7/11/85. d. Relocated to Hygro-thermometer site as standby. | |
| Municipal Airport | 06/01/95 | Present | NA | 45° 33' | 94° 03' | e1021 | | | | | | | | | s ASOS Commissioned 06/01/95 e. Ground Elevation | |

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* NOTES: For earlier station history see previous editions.