

2005

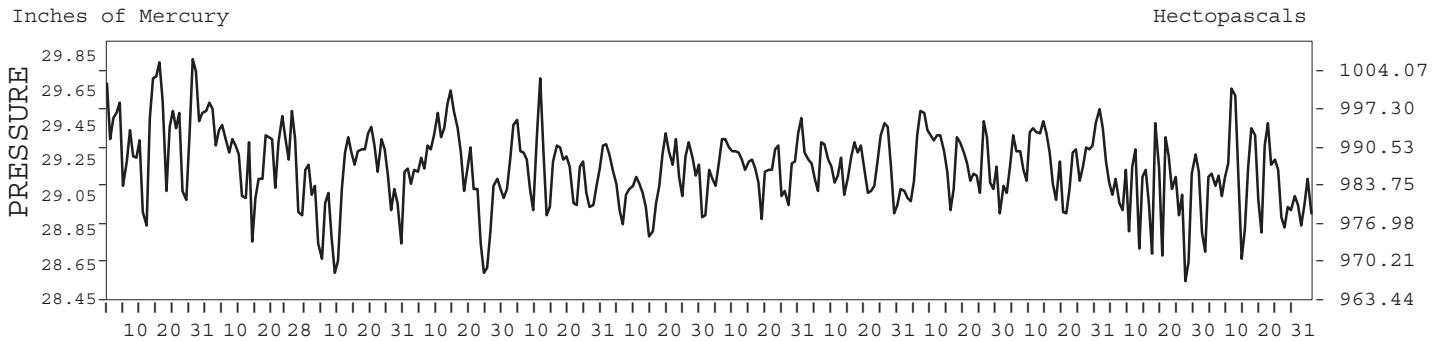
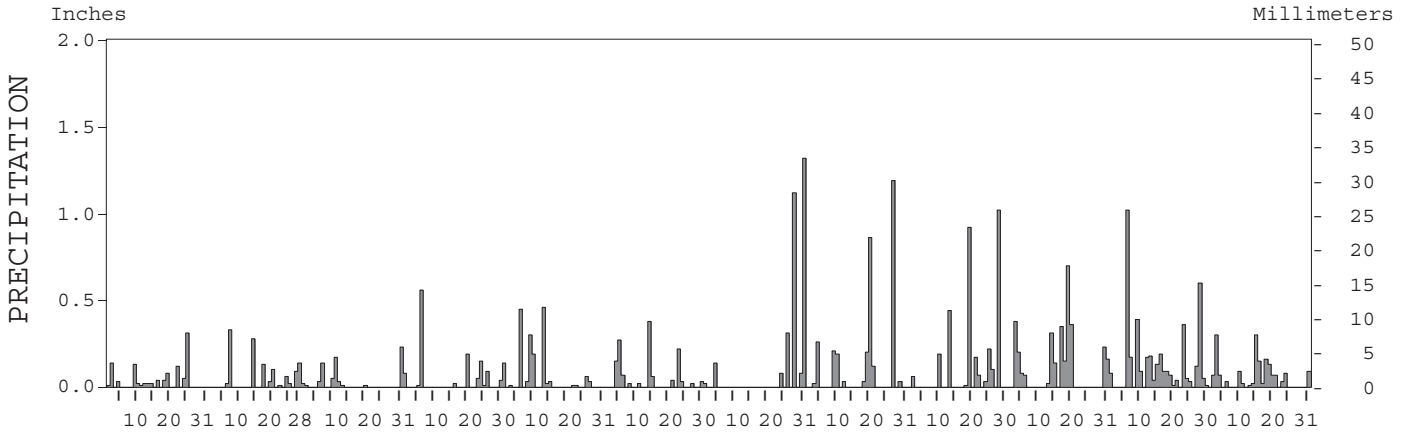
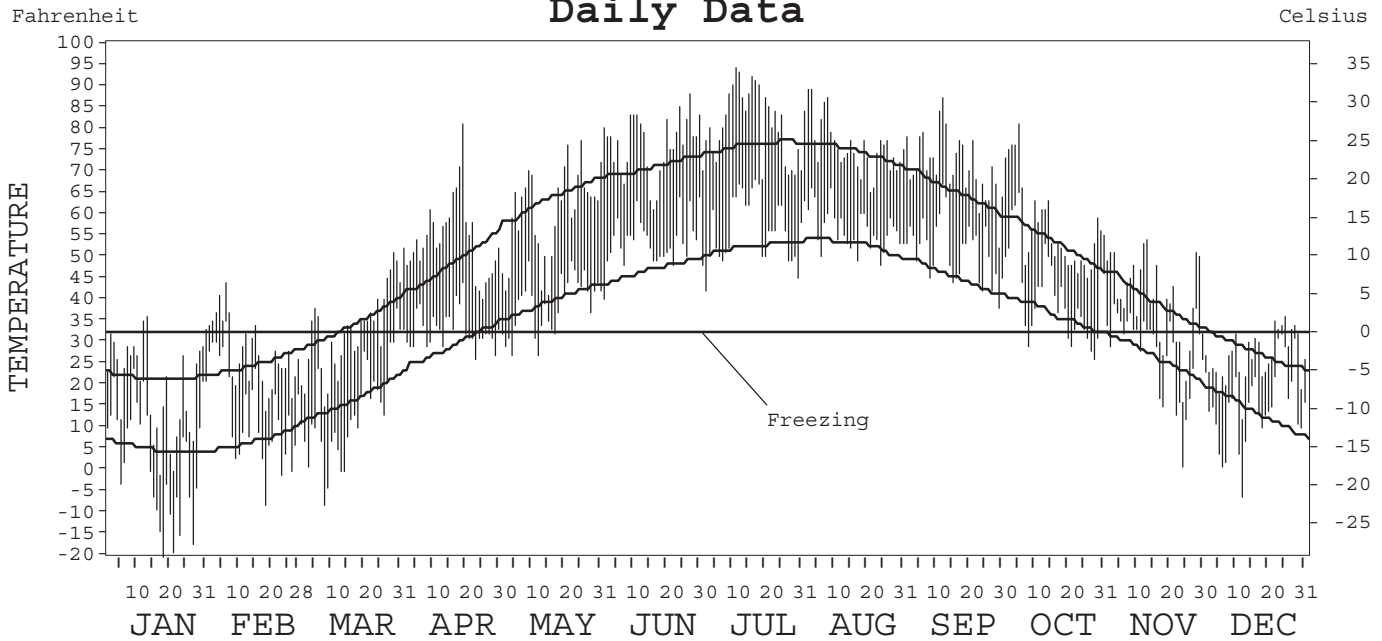
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2672

SAULT STE. MARIE,
MICHIGAN (ANJ)

Daily Data



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Thomas R. Karl

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

METEOROLOGICAL DATA FOR 2005

SAULT STE MARIE, MI (ANJ)

LATITUDE: 46° 28' 00" N LONGITUDE: 84° 22' 00" W ELEVATION (FT): GRND: 724 BARO: 727 TIME ZONE: EASTERN (UTC + 5) WBAN: 14847

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|--------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|---|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 19.7 | 27.5 | 32.6 | 54.1 | 60.2 | 76.1 | 80.6 | 75.8 | 71.0 | 57.1 | 39.9 | 26.6 | 51.8 | |
| | HIGHEST DAILY MAXIMUM | 36 | 44 | 51 | 81 | 77 | 88 | 94 | 89 | 87 | 81 | 54 | 36 | 94 | |
| | DATE OF OCCURRENCE | 13 | 06 | 29 | 19 | 25 | 27 | 11 | 03+ | 12 | 05 | 13 | 25 | JUL 11 | |
| | MEAN DAILY MINIMUM | 3.3 | 13.6 | 14.0 | 33.0 | 38.8 | 53.7 | 56.1 | 56.4 | 51.3 | 41.1 | 27.9 | 15.3 | 33.7 | |
| | LOWEST DAILY MINIMUM | -20 | -8 | -8 | 26 | 27 | 40 | 42 | 48 | 38 | 26 | 1 | -6 | -20 | |
| | DATE OF OCCURRENCE | 18 | 18 | 08 | 23 | 12+ | 01 | 02 | 24 | 29 | 28 | 24 | 12 | JAN 18 | |
| | AVERAGE DRY BULB | 11.5 | 20.6 | 23.3 | 43.6 | 49.5 | 64.9 | 68.4 | 66.1 | 61.2 | 49.1 | 33.9 | 21.0 | 42.8 | |
| | MEAN WET BULB | 10.7 | 19.4 | 21.1 | 36.9 | 43.9 | 59.7 | 61.1 | 60.7 | 56.6 | 45.7 | 32.1 | 20.2 | 39.0 | |
| | MEAN DEW POINT | 5.0 | 15.0 | 14.3 | 28.0 | 38.2 | 55.8 | 56.2 | 57.2 | 53.2 | 42.2 | 29.2 | 16.7 | 34.3 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| MAXIMUM ≤ 32° | 28 | 20 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 25 | 95 | | |
| MINIMUM ≤ 32° | 31 | 27 | 29 | 16 | 7 | 0 | 0 | 0 | 0 | 7 | 17 | 31 | 165 | | |
| MINIMUM ≤ 0° | 14 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 22 | | |
| H/C | HEATING DEGREE DAYS | 1649 | 1239 | 1283 | 638 | 474 | 60 | 44 | 30 | 139 | 501 | 924 | 1358 | 8339 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 0 | 65 | 156 | 72 | 34 | 16 | 0 | 0 | 343 | |
| RH | MEAN (PERCENT) | 73 | 78 | 69 | 60 | 70 | 75 | 69 | 76 | 78 | 79 | 84 | 82 | 74 | |
| | HOUR 01 LST | 75 | 82 | 75 | 72 | 82 | 86 | 83 | 87 | 90 | 87 | 86 | 85 | 82 | |
| | HOUR 07 LST | 79 | 83 | 80 | 73 | 81 | 85 | 83 | 91 | 91 | 89 | 87 | 85 | 84 | |
| | HOUR 13 LST | 69 | 70 | 55 | 45 | 55 | 62 | 48 | 61 | 60 | 64 | 79 | 76 | 62 | |
| | HOUR 19 LST | 72 | 78 | 66 | 53 | 60 | 64 | 59 | 66 | 75 | 78 | 83 | 79 | 69 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 3 | 5 | 2 | 2 | 3 | 2 | 4 | 4 | 4 | 1 | 6 | 5 | 41 | |
| | THUNDERSTORMS | 0 | 0 | 2 | 2 | 1 | 10 | 3 | 4 | 6 | 4 | 1 | 0 | 33 | |
| 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.) | 29.42 | 29.29 | 29.11 | 29.20 | 29.20 | 29.13 | 29.21 | 29.20 | 29.24 | 29.27 | 29.04 | 29.12 | 29.20 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.24 | 30.09 | 29.91 | 29.99 | | 29.90 | 29.98 | 29.96 | 30.01 | 30.05 | 29.83 | 29.93 | | |
| WINDS | RESULTANT SPEED (MPH) | 0.7 | 0.6 | 1.6 | 2.0 | 1.1 | 0.7 | 2.5 | 1.7 | 1.9 | 1.4 | 1.0 | 1.2 | 1.0 | |
| | RES. DIR. (TENS OF DEGS.) | 29 | 05 | 33 | 35 | 27 | 19 | 29 | 28 | 27 | 32 | 30 | 24 | 30 | |
| | MEAN SPEED (MPH) | 7.9 | 7.6 | 7.0 | 8.1 | 7.7 | 7.1 | 6.7 | 6.2 | 7.2 | 6.9 | 9.9 | 8.4 | 7.6 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 09 | 10 | 31 | 31 | 30 | 08 | 31 | 30 | 31 | 30 | 09 | 23 | 30 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 29 | 22 | 25 | 31 | 25 | 30 | 28 | 23 | 24 | 28 | 43 | 25 | 43 | |
| | DIR. (TENS OF DEGS.) | 28 | 31 | 29 | 31 | 20 | 21 | 29 | 31 | 30 | 30 | 28 | 27 | 28 | |
| | DATE OF OCCURRENCE | 13 | 17+ | 31 | 01 | 10 | 30 | 01 | 21 | 29+ | 15 | 13 | 04 | NOV 13 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 40 | 29 | 35 | 38 | 32 | 37 | 38 | 30 | 35 | 36 | 54 | 32 | 54 | |
| DIR. (TENS OF DEGS.) | 30 | 28 | 28 | 32 | 31 | 21 | 28 | 30 | 36 | 28 | 22 | 12 | 22 | | |
| DATE OF OCCURRENCE | 14 | 15 | 31 | 01 | 02 | 30 | 01 | 04 | 29 | 18+ | 13 | 14+ | NOV 13 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 1.04 | 1.21 | 0.70 | 1.20 | 1.74 | 1.31 | 3.07 | 3.14 | 3.23 | 3.15 | 3.98 | 1.71 | 25.48 | |
| | GREATEST 24-HOUR (IN.) | 0.31 | 0.35 | 0.23 | 0.56 | 0.49 | 0.44 | 1.40 | 1.19 | 1.02 | 0.70 | 1.03 | 0.35 | 1.40 | |
| | DATE OF OCCURRENCE | 25 | 06-07 | 31 | 06 | 09-10 | 14-15 | 30-31 | 27 | 28 | 19 | 06-07 | 02-03 | JUL 30-31 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 15 | 11 | 10 | 10 | 13 | 12 | 7 | 11 | 11 | 13 | 22 | 18 | 153 | | |
| PRECIPITATION ≥ 0.10 | 4 | 5 | 3 | 3 | 5 | 4 | 4 | 7 | 7 | 10 | 10 | 5 | 67 | | |
| PRECIPITATION ≥ 1.00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 5 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | | | | | | | | 0.0 | 0.0 | 0.0 | 14.3 | 29.2 | | |
| | GREATEST 24-HOUR (IN.) | | | | | | | | 0.0 | 0.0 | 0.0 | 3.7 | 6.8 | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | 23 | 03 | | |
| | MAXIMUM SNOW DEPTH (IN.) | | | | | | | | 0 | 0 | 0 | 5 | 14 | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | 25+ | 22+ | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | | | | | | | | 0 | 0 | 0 | 5 | 11 | | | |

NORMALS, MEANS, AND EXTREMES

SAULT STE MARIE, MI (ANJ)

LATITUDE: 46° 28' 00" N LONGITUDE: 84° 22' 00" W ELEVATION (FT): GRND: 724 BARO: 727 TIME ZONE: EASTERN (UTC + 5) WBAN: 14847

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|-----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 21.5 | 24.5 | 33.6 | 48.0 | 63.2 | 70.7 | 75.7 | 74.1 | 64.8 | 52.8 | 38.9 | 27.2 | 49.6 |
| | MEAN DAILY MAXIMUM | 59 | 22.0 | 24.4 | 33.0 | 47.5 | 61.4 | 70.3 | 75.6 | 73.9 | 65.0 | 53.7 | 39.2 | 27.5 | 49.5 |
| | HIGHEST DAILY MAXIMUM | 65 | 45 | 49 | 75 | 85 | 89 | 93 | 97 | 98 | 95 | 81 | 67 | 62 | 98 |
| | YEAR OF OCCURRENCE | | 1973 | 2004 | 1946 | 1990 | 1991 | 1983 | 1988 | 1947 | 1976 | 2005 | 1999 | 2001 | AUG 1947 |
| | MEAN OF EXTREME MAXS. | 59 | 37.7 | 40.1 | 49.6 | 68.3 | 80.1 | 84.8 | 87.1 | 86.2 | 81.5 | 71.6 | 55.8 | 43.2 | 65.5 |
| | NORMAL DAILY MINIMUM | 30 | 4.9 | 6.6 | 16.1 | 28.8 | 39.3 | 46.5 | 52.0 | 52.4 | 44.8 | 36.0 | 25.9 | 13.1 | 30.5 |
| | MEAN DAILY MINIMUM | 59 | 5.5 | 6.7 | 15.8 | 29.2 | 38.8 | 46.9 | 52.3 | 52.9 | 45.9 | 37.0 | 26.5 | 13.6 | 30.9 |
| | LOWEST DAILY MINIMUM | 65 | -3.6 | -3.5 | -2.4 | -2 | 18 | 26 | 36 | 29 | 25 | 16 | -10 | -31 | -36 |
| | YEAR OF OCCURRENCE | | 1982 | 1979 | 1943 | 1982 | 1966 | 1982 | 1992 | 1982 | 1993 | 1981 | 1976 | 1993 | JAN 1982 |
| | MEAN OF EXTREME MINS. | 59 | -18.0 | -15.8 | -6.3 | 14.3 | 26.9 | 34.5 | 41.3 | 40.7 | 31.5 | 24.0 | 8.5 | -9.4 | 14.3 |
| | NORMAL DRY BULB | 30 | 13.2 | 15.6 | 24.9 | 38.4 | 51.3 | 58.6 | 63.9 | 63.3 | 54.8 | 44.4 | 32.4 | 20.2 | 40.1 |
| | MEAN DRY BULB | 59 | 13.8 | 15.5 | 24.4 | 38.3 | 50.1 | 58.7 | 64.0 | 63.3 | 55.4 | 45.3 | 32.8 | 20.6 | 40.2 |
| | MEAN WET BULB | 22 | 13.8 | 16.1 | 23.1 | 34.9 | 45.5 | 54.6 | 59.3 | 59.4 | 53.0 | 41.9 | 31.1 | 21.0 | 37.8 |
| | MEAN DEW POINT | 22 | 8.9 | 10.7 | 17.0 | 27.6 | 39.2 | 50.2 | 55.8 | 56.2 | 50.0 | 38.3 | 27.3 | 17.1 | 33.2 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.8 | 0.3 | * | 0.0 | 0.0 | 0.0 | 1.3 | |
| MAXIMUM ≤ 32° | 30 | 25.9 | 21.2 | 13.4 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 7.3 | 20.3 | 90.2 | |
| MINIMUM ≤ 32° | 30 | 30.7 | 27.7 | 28.4 | 20.5 | 6.7 | 0.9 | 0.0 | * | 1.9 | 10.7 | 22.3 | 29.6 | 179.4 | |
| MINIMUM ≤ 0° | 30 | 11.8 | 9.8 | 3.9 | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 5.7 | 31.4 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1606 | 1399 | 1253 | 798 | 434 | 212 | 91 | 107 | 320 | 642 | 979 | 1383 | 9224 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 1 | 6 | 20 | 56 | 50 | 12 | 0 | 0 | 0 | 145 |
| RH | NORMAL (PERCENT) | 30 | 78 | 75 | 73 | 68 | 69 | 75 | 78 | 80 | 82 | 80 | 81 | 81 | 77 |
| | HOUR 01 LST | 30 | 79 | 79 | 79 | 77 | 80 | 88 | 90 | 92 | 91 | 87 | 84 | 83 | 84 |
| | HOUR 07 LST | 30 | 80 | 79 | 81 | 79 | 80 | 85 | 89 | 92 | 93 | 89 | 86 | 84 | 85 |
| | HOUR 13 LST | 30 | 72 | 67 | 65 | 58 | 54 | 62 | 63 | 64 | 67 | 68 | 74 | 77 | 66 |
| | HOUR 19 LST | 30 | 78 | 75 | 71 | 64 | 59 | 65 | 68 | 72 | 80 | 80 | 80 | 81 | 73 |
| S | PERCENT POSSIBLE SUNSHINE | 55 | 36 | 47 | 55 | 54 | 57 | 58 | 62 | 57 | 45 | 38 | 24 | 27 | 47 |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 64 | 2.0 | 2.0 | 3.4 | 2.8 | 3.0 | 3.4 | 4.4 | 5.5 | 5.6 | 4.4 | 3.0 | 3.5 | 43.0 |
| | THUNDERSTORMS | 64 | 0.1 | 0.1 | 0.7 | 1.6 | 3.1 | 5.7 | 5.8 | 5.2 | 4.2 | 1.8 | 0.4 | 0.1 | 28.8 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 55 | 6.3 | 5.8 | 5.5 | 5.4 | 5.2 | 5.0 | 4.7 | 4.9 | 5.7 | 5.9 | 6.7 | 6.6 | 5.6 |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 32 | 6.2 | 5.7 | 5.2 | 5.1 | 4.8 | 4.8 | 4.6 | 4.5 | 5.3 | 5.9 | 6.4 | 6.5 | 5.4 |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 55 | 3.7 | 4.7 | 6.6 | 6.4 | 7.1 | 6.9 | 8.2 | 7.5 | 4.6 | 4.7 | 1.9 | 3.2 | 65.5 |
| PARTLY CLOUDY | 55 | 5.8 | 6.1 | 7.0 | 7.4 | 8.7 | 9.6 | 10.6 | 10.5 | 8.6 | 6.6 | 4.3 | 4.3 | 89.5 | |
| CLOUDY | 55 | 21.5 | 17.4 | 17.4 | 16.2 | 15.2 | 13.5 | 11.7 | 12.5 | 16.3 | 19.2 | 23.3 | 22.9 | 207.1 | |
| PR | MEAN STATION PRESSURE (IN) | 33 | 29.19 | 29.23 | 29.21 | 29.18 | 29.18 | 29.17 | 29.19 | 29.23 | 29.24 | 29.22 | 29.19 | 29.20 | 29.20 |
| | MEAN SEA-LEVEL PRES. (IN) | 21 | 30.02 | 30.05 | 30.04 | 29.97 | 29.97 | 29.95 | 29.97 | 30.02 | 30.01 | 30.00 | 29.98 | 30.02 | 30.00 |
| WINDS | MEAN SPEED (MPH) | 46 | 9.2 | 9.0 | 9.6 | 10.0 | 9.4 | 8.4 | 7.7 | 7.4 | 8.3 | 8.8 | 9.6 | 9.1 | 8.9 |
| | PREVAIL. DIR (TENS OF DEGS) | 31 | 11 | 11 | 31 | 31 | 30 | 30 | 30 | 30 | 31 | 31 | 11 | 10 | 31 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 9 | 35 | 39 | 39 | 34 | 32 | 31 | 33 | 33 | 34 | 33 | 43 | 40 | 43 |
| | DIR. (TENS OF DEGS) | | 31 | 29 | 29 | 24 | 27 | 19 | 31 | 27 | 32 | 31 | 28 | 31 | 28 |
| | YEAR OF OCCURRENCE | | 2000 | 2001 | 2002 | 1997 | 2002 | 2000 | 1999 | 2004 | 1998 | 2004 | 2005 | 1999 | NOV 2005 |
| | MAXIMUM 5-SECOND: | | | | | | | | | | | | | | |
| SPEED (MPH) | 9 | 45 | 47 | 47 | 51 | 49 | 41 | 48 | 47 | 48 | 47 | 54 | 49 | 54 | |
| DIR. (TENS OF DEGS) | | 31 | 28 | 30 | 23 | 26 | 30 | 31 | 26 | 30 | 31 | 22 | 31 | 22 | |
| YEAR OF OCCURRENCE | | 2000 | 2001 | 2002 | 1997 | 2002 | 2001 | 1999 | 1998 | 1998 | 2004 | 2005 | 1999 | NOV 2005 | |
| PRECIPITATION | NORMAL (IN) | 30 | 2.64 | 1.60 | 2.41 | 2.57 | 2.50 | 3.00 | 3.14 | 3.47 | 3.71 | 3.32 | 3.40 | 2.91 | 34.67 |
| | MAXIMUM MONTHLY (IN) | 64 | 4.52 | 3.74 | 4.97 | 5.16 | 7.41 | 7.35 | 7.23 | 9.48 | 7.78 | 6.84 | 7.72 | 6.24 | 9.48 |
| | YEAR OF OCCURRENCE | | 1982 | 1971 | 1976 | 1954 | 1970 | 1969 | 1996 | 1974 | 1970 | 2001 | 1988 | 1995 | AUG 1974 |
| | MINIMUM MONTHLY (IN) | 64 | 0.51 | 0.21 | 0.35 | 0.60 | 0.62 | 0.52 | 0.57 | 0.50 | 0.86 | 0.16 | 0.87 | 0.58 | 0.16 |
| | YEAR OF OCCURRENCE | | 1961 | 1993 | 1993 | 1949 | 1996 | 1988 | 1989 | 1947 | 1943 | 1963 | 1962 | 1994 | OCT 1963 |
| | MAXIMUM IN 24 HOURS (IN) | 64 | 1.37 | 1.11 | 1.81 | 2.67 | 5.10 | 5.06 | 2.79 | 5.92 | 2.71 | 2.08 | 2.42 | 1.67 | 5.92 |
| | YEAR OF OCCURRENCE | | 1950 | 1977 | 1976 | 1954 | 1970 | 1970 | 1965 | 1974 | 1986 | 2001 | 1988 | 1995 | AUG 1974 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 19.9 | 13.9 | 13.1 | 10.7 | 11.0 | 11.2 | 10.8 | 11.4 | 13.1 | 14.5 | 17.3 | 19.6 | 166.5 | |
| PRECIPITATION ≥ 1.00 | 30 | 0.1 | * | 0.1 | 0.4 | 0.3 | 0.5 | 0.6 | 0.7 | 0.7 | 0.4 | 0.4 | 0.1 | 4.3 | |
| SNOWFALL | NORMAL (IN) | 30 | 35.0 | 19.5 | 15.0 | 7.6 | 0.2 | 0.0 | 0.0 | 0.0 | 0.* | 2.5 | 16.5 | 36.3 | 132.6 |
| | MAXIMUM MONTHLY (IN) | 56 | 71.0 | 41.3 | 34.7 | 25.8 | 4.6 | T | T | T | 2.7 | 12.5 | 46.8 | 98.7 | 98.7 |
| | YEAR OF OCCURRENCE | | 1982 | 1972 | 1964 | 1982 | 1947 | 1951 | 1995 | 1986 | 1956 | 1943 | 1989 | 1995 | DEC 1995 |
| | MAXIMUM IN 24 HOURS (IN) | 56 | 15.3 | 12.6 | 11.9 | 11.5 | 4.6 | T | T | T | 2.7 | 10.1 | 14.3 | 27.8 | 27.8 |
| | YEAR OF OCCURRENCE | | 1988 | 1968 | 1964 | 1979 | 1947 | 1951 | 1995 | 1986 | 1956 | 1943 | 1943 | 1995 | DEC 1995 |
| | MAXIMUM SNOW DEPTH (IN) | 49 | 38 | 40 | 50 | 26 | 2 | 0 | 0 | 0 | 1 | 6 | 14 | 49 | 50 |
| | YEAR OF OCCURRENCE | | 1982 | 1972 | 1972 | 1972 | 1984 | | | | 1965 | 1972 | 1989 | 1995 | MAR 1972 |
| NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 30 | 10.5 | 6.2 | 4.6 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 5.8 | 10.3 | 40.4 | |

PRECIPITATION (inches) 2005 SAULT STE. MARIE, MI (ANJ)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1976 | 2.24 | 2.35 | 4.97 | 1.89 | 2.21 | 1.87 | 1.24 | 1.39 | 1.71 | 1.43 | 2.47 | 1.93 | 25.70 |
| 1977 | 2.72 | 2.89 | 4.76 | 1.66 | 1.78 | 2.37 | 4.87 | 3.54 | 4.31 | 1.86 | 4.71 | 3.42 | 38.89 |
| 1978 | 2.51 | 0.54 | 1.10 | 1.74 | 3.74 | 3.82 | 5.19 | 3.65 | 6.71 | 3.35 | 2.61 | 3.25 | 38.21 |
| 1979 | 1.86 | 1.94 | 4.60 | 3.79 | 2.15 | 5.58 | 4.42 | 5.22 | 1.63 | 6.36 | 3.70 | 2.10 | 43.35 |
| 1980 | 3.42 | 0.82 | 1.14 | 3.45 | 0.80 | 3.94 | 1.77 | 2.64 | 3.32 | 2.43 | 2.11 | 4.14 | 29.98 |
| 1981 | 0.68 | 2.55 | 1.17 | 3.28 | 1.15 | 5.59 | 0.80 | 2.45 | 2.18 | 4.50 | 1.89 | 2.42 | 28.66 |
| 1982 | 4.52 | 0.62 | 3.20 | 3.75 | 1.37 | 1.72 | 1.72 | 3.34 | 6.12 | 2.88 | 3.89 | 4.40 | 37.53 |
| 1983 | 2.13 | 1.21 | 2.57 | 2.60 | 4.70 | 1.65 | 3.27 | 2.73 | 3.35 | 3.66 | 3.17 | 3.04 | 34.08 |
| 1984 | 1.52 | 1.90 | 2.06 | 1.67 | 1.16 | 3.91 | 2.24 | 2.99 | 5.08 | 3.50 | 3.78 | 5.10 | 34.91 |
| 1985 | 2.61 | 2.78 | 2.77 | 4.36 | 4.37 | 1.63 | 3.29 | 4.24 | 3.37 | 2.81 | 3.69 | 3.45 | 39.37 |
| 1986 | 1.70 | 0.95 | 4.14 | 1.22 | 1.80 | 5.12 | 4.76 | 4.57 | 5.23 | 3.14 | 2.57 | 2.21 | 37.41 |
| 1987 | 1.74 | 0.80 | 1.14 | 1.32 | 1.96 | 2.86 | 3.14 | 4.50 | 1.85 | 5.06 | 3.42 | 3.07 | 30.86 |
| 1988 | 3.12 | 0.92 | 2.91 | 2.17 | 1.49 | 0.52 | 2.14 | 4.77 | 3.01 | 4.54 | 7.72 | 3.63 | 36.94 |
| 1989 | 2.30 | 1.78 | 2.37 | 1.98 | 2.12 | 2.61 | 0.57 | 2.64 | 1.05 | 2.43 | 4.31 | 1.73 | 25.89 |
| 1990 | 2.48 | 2.04 | 2.39 | 1.79 | 3.29 | 4.99 | 1.67 | 2.33 | 3.95 | 3.75 | 3.90 | 2.48 | 35.06 |
| 1991 | 1.51 | 0.63 | 3.70 | 3.39 | 1.62 | 1.09 | 3.86 | 1.55 | 5.85 | 3.97 | 3.52 | 2.51 | 33.20 |
| 1992 | 2.86 | 1.07 | 1.52 | 2.50 | 1.46 | 1.55 | 4.09 | 3.27 | 5.72 | 3.29 | 5.03 | 3.45 | 35.81 |
| 1993 | 2.23 | 0.21 | 0.35 | 3.82 | 4.51 | 3.79 | 3.23 | 1.86 | 3.66 | 5.22 | 2.49 | 2.56 | 33.93 |
| 1994 | 2.18 | 0.98 | 1.54 | 2.34 | 2.99 | 2.79 | 3.91 | 4.05 | 1.50 | 2.17 | 2.96 | 0.58 | 27.99 |
| 1995 | 2.42 | 1.20 | 1.63 | 4.17 | 2.65 | 2.17 | 3.54 | 6.52 | 4.95 | 6.55 | 3.80 | 6.24 | 45.84 |
| 1996 | 4.02 | 2.24 | 1.57 | 4.21 | 0.62 | 3.32 | 7.23 | 1.32 | 6.47 | 4.95 | 2.95 | 4.07 | 42.97 |
| 1997 | 3.99 | 0.86 | 2.59 | 1.55 | 3.38 | 3.41 | 1.17 | 2.14 | 3.12 | 2.06 | 2.21 | 1.38 | 27.86 |
| 1998 | 2.36 | 0.62 | 3.59 | 2.31 | 2.16 | 3.10 | 3.14 | 3.01 | 2.91 | 2.78 | 4.47 | 2.75 | 33.20 |
| 1999 | 3.35 | 3.11 | 0.40 | 2.50 | 3.51 | 2.51 | 4.72 | 3.76 | 3.21 | 3.36 | 1.18 | 2.68 | 34.29 |
| 2000 | 3.33 | 1.16 | 2.31 | 0.94 | 1.39 | 3.67 | 1.10 | 1.68 | 2.06 | 1.48 | 2.67 | 0.61 | 22.40 |
| 2001 | 0.93 | 1.52 | 0.42 | 2.97 | 5.27 | 1.83 | 2.05 | 4.53 | 5.53 | 6.84 | 4.12 | 2.45 | 38.46 |
| 2002 | 0.66 | 1.11 | 2.72 | 1.94 | 3.35 | 3.22 | 2.49 | 4.14 | 2.59 | 4.20 | 1.47 | 1.30 | 29.19 |
| 2003 | 0.77 | 0.90 | 1.38 | 1.91 | 1.69 | 1.95 | 4.08 | 3.01 | 4.65 | 2.60 | 5.05 | 2.40 | 30.39 |
| 2004 | 1.01 | 0.67 | 2.06 | 1.95 | 4.98 | 2.27 | 3.21 | 3.59 | 1.30 | 5.55 | 2.88 | 2.45 | 31.92 |
| 2005 | 1.04 | 1.21 | 0.70 | 1.20 | 1.74 | 1.31 | 3.07 | 3.14 | 3.23 | 3.15 | 3.98 | 1.71 | 25.48 |
| POR= 117 YRS | 2.14 | 1.49 | 1.93 | 2.27 | 2.77 | 2.98 | 2.78 | 3.04 | 3.62 | 3.18 | 3.11 | 2.42 | 31.73 |

WBAN : 14847

AVERAGE TEMPERATURE (°F) 2005 SAULT STE. MARIE, MI (ANJ)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1976 | 10.4 | 18.8 | 22.9 | 40.0 | 47.7 | 62.4 | 63.3 | 64.8 | 53.6 | 41.3 | 27.3 | 9.9 | 38.5 |
| 1977 | 6.3 | 14.3 | 28.6 | 40.0 | 55.2 | 54.8 | 62.8 | 57.3 | 53.6 | 44.7 | 34.4 | 19.8 | 39.3 |
| 1978 | 10.8 | 11.1 | 20.4 | 35.1 | 55.0 | 56.2 | 62.4 | 63.1 | 55.5 | 43.9 | 31.8 | 17.9 | 38.6 |
| 1979 | 8.9 | 5.2 | 27.1 | 37.0 | 49.4 | 57.3 | 65.4 | 61.3 | 55.2 | 42.4 | 32.2 | 24.0 | 38.8 |
| 1980 | 15.0 | 12.4 | 22.5 | 41.1 | 54.1 | 54.8 | 63.1 | 64.9 | 52.2 | 37.7 | 29.2 | 12.8 | 38.3 |
| 1981 | 8.8 | 18.6 | 27.2 | 39.3 | 50.7 | 56.2 | 63.4 | 62.8 | 50.3 | 38.9 | 32.5 | 21.7 | 39.2 |
| 1982 | 4.7 | 11.5 | 21.6 | 31.7 | 56.2 | 51.5 | 62.7 | 57.6 | 54.2 | 46.8 | 32.3 | 24.3 | 37.9 |
| 1983 | 15.9 | 21.0 | 27.5 | 37.0 | 45.3 | 60.9 | 69.2 | 68.0 | 58.5 | 44.8 | 33.0 | 11.2 | 41.0 |
| 1984 | 7.3 | 23.7 | 20.9 | 44.5 | 47.5 | 59.7 | 63.4 | 64.9 | 51.9 | 46.7 | 31.7 | 20.6 | 40.2 |
| 1985 | 11.9 | 12.9 | 26.5 | 38.8 | 51.2 | 54.6 | 60.7 | 62.8 | 57.6 | 45.8 | 32.1 | 13.9 | 39.1 |
| 1986 | 12.6 | 15.1 | 25.8 | 43.5 | 54.3 | 55.3 | 65.2 | 60.3 | 53.9 | 44.5 | 30.3 | 25.8 | 40.6 |
| 1987 | 20.0 | 22.1 | 29.7 | 45.9 | 53.0 | 61.3 | 66.8 | 63.0 | 57.3 | 42.2 | 33.5 | 26.0 | 43.4 |
| 1988 | 13.5 | 12.2 | 23.0 | 39.2 | 53.6 | 59.1 | 67.5 | 64.8 | 55.3 | 41.1 | 36.6 | 19.2 | 40.4 |
| 1989 | 19.5 | 11.2 | 19.4 | 36.9 | 52.3 | 58.1 | 66.7 | 63.3 | 56.1 | 45.9 | 28.1 | 7.3 | 38.7 |
| 1990 | 23.5 | 17.9 | 26.6 | 41.1 | 48.8 | 57.1 | 62.9 | 62.6 | 55.0 | 43.4 | 35.9 | 22.2 | 41.4 |
| 1991 | 12.9 | 18.9 | 27.0 | 42.9 | 55.7 | 63.0 | 64.5 | 66.2 | 54.0 | 44.9 | 32.2 | 21.5 | 42.0 |
| 1992 | 16.6 | 17.7 | 21.8 | 35.6 | 51.9 | 56.4 | 57.4 | 60.4 | 54.0 | 43.4 | 30.9 | 23.7 | 39.2 |
| 1993 | 16.8 | 11.8 | 26.4 | 36.9 | 48.3 | 56.4 | 64.2 | 65.2 | 50.8 | 40.9 | 29.6 | 21.3 | 39.1 |
| 1994 | 0.8 | 8.1 | 25.1 | 36.3 | 49.3 | 60.1 | 63.0 | 60.0 | 56.3 | 47.3 | 35.3 | 29.3 | 39.2 |
| 1995 | 20.8 | 11.8 | 28.2 | 34.5 | 49.7 | 63.4 | 63.7 | 66.1 | 52.8 | 46.1 | 25.7 | 16.2 | 39.9 |
| 1996 | 10.5 | 12.5 | 19.6 | 32.3 | 47.3 | 59.5 | 58.9 | 62.7 | 58.0 | 44.8 | 29.9 | 23.5 | 38.3 |
| 1997 | 11.2 | 17.6 | 22.9 | 36.7 | 44.7 | 62.6 | 63.7 | 61.8 | 57.0 | 45.1 | 32.9 | 26.0 | 40.2 |
| 1998 | 18.3 | 29.1 | 28.8 | 44.0 | 57.6 | 60.2 | 66.7 | 68.5 | 60.3 | 48.5 | 37.9 | 25.8 | 45.5 |
| 1999 | 13.4 | 22.4 | 26.7 | 43.8 | 55.4 | 61.9 | 67.8 | 62.7 | 57.6 | 43.4 | 38.2 | 24.4 | 43.1 |
| 2000 | 14.1 | 22.5 | 33.9 | 40.2 | 52.0 | 58.0 | 64.4 | 64.2 | 55.4 | 46.7 | 34.2 | 13.4 | 41.6 |
| 2001 | 20.0 | 15.1 | 25.0 | 40.7 | 53.6 | 61.7 | 64.7 | 68.0 | 57.8 | 47.3 | 40.6 | 31.0 | 43.8 |
| 2002 | 23.5 | 22.4 | 22.2 | 37.9 | 47.1 | 61.4 | 69.6 | 66.3 | 62.4 | 42.0 | 30.6 | 26.4 | 42.7 |
| 2003 | 13.9 | 10.9 | 24.9 | 37.7 | 53.2 | 59.1 | 64.6 | 65.8 | 57.7 | 43.9 | 34.2 | 26.1 | 41.0 |
| 2004 | 6.2 | 21.0 | 27.7 | 37.6 | 47.5 | 56.4 | 62.7 | 60.1 | 61.6 | 46.7 | 36.3 | 18.6 | 40.2 |
| 2005 | 11.5 | 20.6 | 23.3 | 43.6 | 49.5 | 64.9 | 68.4 | 66.1 | 61.2 | 49.1 | 33.9 | 21.0 | 42.8 |
| POR= 117 YRS | 14.1 | 14.4 | 23.7 | 38.1 | 49.7 | 58.6 | 63.9 | 63.0 | 55.8 | 45.1 | 32.8 | 20.8 | 40.0 |

HEATING DEGREE DAYS (base 65°F) 2005 SAULT STE. MARIE, MI (ANJ)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1976-77 | 76 | 90 | 349 | 728 | 1121 | 1706 | 1818 | 1420 | 1119 | 744 | 318 | 305 | 9794 |
| 1977-78 | 111 | 246 | 335 | 621 | 910 | 1396 | 1675 | 1503 | 1377 | 889 | 333 | 270 | 9666 |
| 1978-79 | 112 | 96 | 282 | 645 | 989 | 1453 | 1733 | 1673 | 1171 | 835 | 477 | 237 | 9703 |
| 1979-80 | 69 | 134 | 305 | 696 | 979 | 1263 | 1541 | 1520 | 1313 | 711 | 342 | 317 | 9190 |
| 1980-81 | 70 | 44 | 383 | 841 | 1066 | 1613 | 1740 | 1297 | 1164 | 763 | 438 | 262 | 9681 |
| 1981-82 | 89 | 83 | 435 | 799 | 968 | 1336 | 1868 | 1495 | 1337 | 991 | 273 | 393 | 10067 |
| 1982-83 | 97 | 228 | 339 | 556 | 976 | 1256 | 1520 | 1229 | 1153 | 832 | 604 | 169 | 8959 |
| 1983-84 | 34 | 25 | 236 | 619 | 951 | 1665 | 1787 | 1193 | 1362 | 608 | 535 | 177 | 9192 |
| 1984-85 | 82 | 51 | 391 | 560 | 990 | 1367 | 1643 | 1453 | 1184 | 776 | 424 | 306 | 9227 |
| 1985-86 | 135 | 100 | 242 | 590 | 978 | 1579 | 1619 | 1392 | 1207 | 639 | 325 | 285 | 9091 |
| 1986-87 | 60 | 153 | 325 | 625 | 1036 | 1209 | 1386 | 1195 | 1086 | 568 | 393 | 142 | 8178 |
| 1987-88 | 53 | 105 | 229 | 699 | 938 | 1202 | 1586 | 1525 | 1295 | 767 | 358 | 197 | 8954 |
| 1988-89 | 39 | 103 | 291 | 733 | 847 | 1413 | 1403 | 1502 | 1409 | 835 | 388 | 211 | 9174 |
| 1989-90 | 34 | 119 | 271 | 582 | 1099 | 1785 | 1281 | 1317 | 1186 | 719 | 494 | 240 | 9127 |
| 1990-91 | 96 | 99 | 303 | 662 | 866 | 1319 | 1609 | 1282 | 1169 | 657 | 292 | 92 | 8446 |
| 1991-92 | 68 | 56 | 338 | 615 | 976 | 1341 | 1495 | 1367 | 1331 | 875 | 405 | 256 | 9123 |
| 1992-93 | 230 | 165 | 326 | 661 | 1014 | 1277 | 1486 | 1482 | 1187 | 834 | 512 | 252 | 9426 |
| 1993-94 | 66 | 66 | 421 | 740 | 1054 | 1346 | 1993 | 1592 | 1229 | 855 | 481 | 177 | 10020 |
| 1994-95 | 101 | 161 | 258 | 543 | 885 | 1099 | 1362 | 1487 | 1131 | 910 | 470 | 113 | 8520 |
| 1995-96 | 81 | 48 | 363 | 579 | 1171 | 1510 | 1686 | 1518 | 1401 | 973 | 542 | 174 | 10046 |
| 1996-97 | 184 | 97 | 228 | 617 | 1043 | 1282 | 1658 | 1321 | 1296 | 840 | 623 | 96 | 9285 |
| 1997-98 | 97 | 121 | 235 | 613 | 956 | 1204 | 1443 | 996 | 1114 | 622 | 232 | 175 | 7808 |
| 1998-99 | 24 | 14 | 157 | 507 | 805 | 1210 | 1591 | 1188 | 1181 | 629 | 298 | 139 | 7743 |
| 1999-00 | 36 | 96 | 244 | 661 | 796 | 1251 | 1570 | 1226 | 955 | 734 | 402 | 213 | 8184 |
| 2000-01 | 80 | 64 | 293 | 561 | 917 | 1592 | 1388 | 1389 | 1232 | 724 | 345 | 146 | 8731 |
| 2001-02 | 84 | 30 | 230 | 542 | 726 | 1052 | 1280 | 1188 | 1322 | 806 | 547 | 145 | 7952 |
| 2002-03 | 18 | 30 | 139 | 707 | 1025 | 1188 | 1576 | 1509 | 1239 | 813 | 359 | 195 | 8798 |
| 2003-04 | 54 | 51 | 224 | 649 | 917 | 1197 | 1816 | 1270 | 1148 | 816 | 536 | 259 | 8937 |
| 2004-05 | 95 | 165 | 132 | 560 | 853 | 1429 | 1649 | 1239 | 1283 | 638 | 474 | 60 | 8577 |
| 2005- | 44 | 30 | 139 | 501 | 924 | 1358 | | | | | | | |

WBAN : 14847

COOLING DEGREE DAYS (base 65°F) 2005 SAULT STE. MARIE, MI (ANJ)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1976 | 0 | 0 | 0 | 3 | 2 | 29 | 33 | 88 | 12 | 0 | 0 | 0 | 167 |
| 1977 | 0 | 0 | 0 | 0 | 19 | 5 | 49 | 13 | 0 | 0 | 0 | 0 | 86 |
| 1978 | 0 | 0 | 0 | 0 | 27 | 9 | 40 | 44 | 5 | 0 | 0 | 0 | 125 |
| 1979 | 0 | 0 | 0 | 0 | 0 | 13 | 87 | 30 | 15 | 0 | 0 | 0 | 145 |
| 1980 | 0 | 0 | 0 | 0 | 10 | 16 | 19 | 48 | 6 | 0 | 0 | 0 | 99 |
| 1981 | 0 | 0 | 0 | 0 | 1 | 5 | 46 | 22 | 0 | 0 | 0 | 0 | 74 |
| 1982 | 0 | 0 | 0 | 0 | 6 | 0 | 30 | 5 | 21 | 0 | 0 | 0 | 62 |
| 1983 | 0 | 0 | 0 | 0 | 0 | 52 | 171 | 124 | 49 | 0 | 0 | 0 | 396 |
| 1984 | 0 | 0 | 0 | 0 | 0 | 24 | 41 | 56 | 3 | 0 | 0 | 0 | 124 |
| 1985 | 0 | 0 | 0 | 0 | 4 | 1 | 8 | 38 | 28 | 0 | 0 | 0 | 79 |
| 1986 | 0 | 0 | 0 | 1 | 2 | 1 | 75 | 12 | 0 | 0 | 0 | 0 | 91 |
| 1987 | 0 | 0 | 0 | 1 | 27 | 35 | 114 | 52 | 2 | 0 | 0 | 0 | 231 |
| 1988 | 0 | 0 | 0 | 0 | 12 | 25 | 126 | 104 | 8 | 0 | 0 | 0 | 275 |
| 1989 | 0 | 0 | 0 | 0 | 0 | 9 | 97 | 74 | 11 | 0 | 0 | 0 | 191 |
| 1990 | 0 | 0 | 0 | 10 | 0 | 7 | 36 | 30 | 9 | 0 | 0 | 0 | 92 |
| 1991 | 0 | 0 | 0 | 0 | 12 | 39 | 57 | 98 | 14 | 0 | 0 | 0 | 220 |
| 1992 | 0 | 0 | 0 | 0 | 8 | 2 | 0 | 27 | 2 | 0 | 0 | 0 | 39 |
| 1993 | 0 | 0 | 0 | 0 | 2 | 3 | 48 | 79 | 3 | 0 | 0 | 0 | 135 |
| 1994 | 0 | 0 | 0 | 0 | 2 | 34 | 47 | 13 | 3 | 0 | 0 | 0 | 99 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 72 | 50 | 91 | 5 | 0 | 0 | 0 | 218 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 13 | 4 | 33 | 23 | 0 | 0 | 0 | 73 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 31 | 62 | 29 | 3 | 0 | 0 | 0 | 125 |
| 1998 | 0 | 0 | 0 | 0 | 9 | 40 | 81 | 132 | 23 | 0 | 0 | 0 | 285 |
| 1999 | 0 | 0 | 0 | 0 | 7 | 53 | 133 | 32 | 30 | 0 | 0 | 0 | 255 |
| 2000 | 0 | 0 | 0 | 0 | 7 | 10 | 66 | 45 | 11 | 0 | 0 | 0 | 139 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 55 | 83 | 128 | 22 | 0 | 0 | 0 | 288 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 42 | 166 | 78 | 67 | 3 | 0 | 0 | 356 |
| 2003 | 0 | 0 | 0 | 0 | 0 | 25 | 48 | 85 | 12 | 0 | 0 | 0 | 170 |
| 2004 | 0 | 0 | 0 | 0 | 0 | 6 | 32 | 19 | 37 | 0 | 0 | 0 | 94 |
| 2005 | 0 | 0 | 0 | 0 | 0 | 65 | 156 | 72 | 34 | 16 | 0 | 0 | 343 |

SNOWFALL (inches) 2005 SAULT STE. MARIE, MI (ANJ)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|------|------|------|------|------|------|------|-----|-----|-------|
| 1976-77 | 0.0 | 0.0 | T | 7.5 | 34.2 | 34.9 | 45.9 | 26.3 | 18.5 | 11.3 | 0.0 | 0.0 | 178.6 |
| 1977-78 | 0.0 | 0.0 | 0.0 | T | 16.2 | 41.9 | 35.5 | 12.1 | 14.7 | 5.3 | 0.0 | 0.0 | 125.7 |
| 1978-79 | 0.0 | 0.0 | 0.0 | T | 14.0 | 51.3 | 39.6 | 21.7 | 13.6 | 19.2 | 0.7 | 0.0 | 160.1 |
| 1979-80 | 0.0 | 0.0 | 0.0 | 3.5 | 12.4 | 28.0 | 30.7 | 14.3 | 17.5 | 1.7 | 0.0 | 0.0 | 108.1 |
| 1980-81 | 0.0 | 0.0 | 0.0 | 5.2 | 14.6 | 69.3 | 13.6 | 29.9 | 8.7 | 0.4 | 0.0 | 0.0 | 141.7 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 6.3 | 11.7 | 25.9 | 71.0 | 10.8 | 17.1 | 25.8 | 0.0 | 0.0 | 168.6 |
| 1982-83 | 0.0 | 0.0 | 0.0 | T | 12.2 | 22.7 | 22.6 | 15.7 | 9.4 | 4.4 | T | 0.0 | 87.0 |
| 1983-84 | 0.0 | 0.0 | T | T | 5.6 | 57.5 | 23.3 | 10.8 | 7.8 | 2.5 | 0.9 | 0.0 | 108.4 |
| 1984-85 | 0.0 | 0.0 | 0.1 | T | 8.2 | 44.8 | 43.8 | 31.5 | 16.8 | 9.7 | 0.0 | 0.0 | 154.9 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.4 | 15.7 | 56.4 | 28.7 | 17.0 | 29.9 | 0.4 | 0.1 | 0.0 | 148.6 |
| 1986-87 | 0.0 | T | 0.0 | T | 25.4 | 29.0 | 29.2 | 10.2 | 7.2 | 2.0 | 0.0 | 0.0 | 103.0 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 4.6 | 16.7 | 27.7 | 43.0 | 14.5 | 23.4 | 5.2 | 0.0 | 0.0 | 135.1 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 6.6 | 7.4 | 50.2 | 25.6 | 23.7 | 24.7 | 4.1 | T | 0.0 | 142.3 |
| 1989-90 | 0.0 | 0.0 | 0.1 | 0.4 | 46.8 | 28.8 | 31.5 | 27.3 | 7.4 | 16.2 | 0.9 | 0.0 | 159.4 |
| 1990-91 | 0.0 | 0.0 | T | 0.4 | 16.7 | 29.2 | 25.9 | 11.3 | 15.2 | 8.5 | T | 0.0 | 107.2 |
| 1991-92 | 0.0 | 0.0 | 0.4 | 2.2 | 19.1 | 25.1 | 37.6 | 12.8 | 10.5 | 5.0 | 0.4 | 0.0 | 113.1 |
| 1992-93 | 0.0 | 0.0 | T | 10.8 | 13.6 | 35.0 | 28.9 | 2.8 | 1.9 | 8.7 | 0.0 | 0.0 | 101.7 |
| 1993-94 | 0.0 | 0.0 | 0.0 | 5.0 | 12.6 | 28.4 | 33.4 | 8.4 | 15.4 | 3.6 | T | 0.0 | 106.8 |
| 1994-95 | 0.0 | 0.0 | 0.0 | T | 15.9 | 5.1 | 26.8 | 15.6 | 15.3 | 15.0 | 0.0 | 0.0 | 93.7 |
| 1995-96 | T | 0.0 | 0.0 | 1.0 | 36.4 | 98.7 | 44.2 | 18.7 | 9.2 | 13.6 | 0.2 | 0.0 | 222.0 |
| 1996-97 | 0.0 | 0.0 | 0.0 | 0.7 | 21.6 | 45.4 | | | | | | | |
| 1997-98 | | | | | | | | | | | | | |
| 1998-99 | | | | | | | | | | | | | |
| 1999-00 | | | | | 2.3 | 25.9 | 39.1 | 9.3 | 7.5 | | | | |
| 2000-01 | | | | | | | | | | | | | |
| 2001-02 | | | | | | | | | | | | | |
| 2002-03 | | | | | | | | | | | | | |
| 2003-04 | | | | | | | | | | | | | |
| 2004-05 | | | | | | | | | | | | | |
| 2005- | | 0.0 | 0.0 | 0.0 | 14.3 | 29.2 | | | | | | | |
| POR= 54 YRS | T | T | 0.1 | 2.4 | 15.5 | 30.7 | 28.5 | 18.1 | 14.4 | 5.8 | 0.9 | T | 116.4 |

WBAN : 14847

REFERENCE NOTES :

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| <p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS (OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p> | <p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS (OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> |
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2005
SAULT STE. MARIE,
MICHIGAN (ANJ)

Sault Ste. Marie is located at the extreme eastern tip of the Upper Peninsula of Michigan at the intersection of Lake Superior, Michigan, and Huron. Consequently, the regional climate is essentially maritime during ice-free periods of the year. Lake ice development usually begins in December and progresses to maximum coverage in February. As ice cover develops, the character of the regional climate gradually changes to continental polar by the time of maximum lake ice development. Lake Superior, to the northwest, is the largest, deepest, and coldest of the Great Lakes and is the dominant climatic control for the area. Water in the northern Great Lakes remains relatively cool during the summer and seldom freezes over during the winter. Therefore, temperatures are moderated throughout most of the year, whereas cloudiness and precipitation are increased.

Terrain on the Michigan side of the international border is nearly flat and lies 700 to 800 feet above sea level. Very little climatological influence is related to Michigan terrain. However, terrain on the Canadian side of the border rises rather abruptly to about 1,500 feet above sea level and this definite topographic influence increases the rain and snow shower activity over the Canadian hills.

Heavy fog occurrences reach a maximum in August, September, and October and form in response to the passage of relatively cold air masses over the warmer waters of the northern Great Lakes. Destructive tornadoes and thunderstorms have occurred on rare occasions. Occurrences of river and flash flooding are very rare. Summer and fall pollen counts are extremely low and sources of industrial pollutants are almost non-existent.

Changing weather patterns are common because of the high frequency of migratory low pressure systems moving toward the east and the northeast through the northern Great Lakes. Summer rains are most frequent during periods of southeasterly circulation whereas winter snows most frequently accompany post-frontal northwest winds.

Most summers pass without a temperature reaching 90 degrees. Winters are cold and snowy with total seasonal snowfall ranging from about 30 inches to more than 175 inches. November 21 is the average date for the appearance of the permanent winter snow cover which normally lasts until April 7.

Annual percent of possible sunshine is low but is especially low during late fall and early winter because of cloud cover produced by lake moisture evaporated into the cold air. Sunshine amounts increase as ice development increases in the winter season. Daylight during most of June and July lasts almost 16 hours, whereas winter daylight reaches a minimum of less than 9 hours a day in late December.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 27 and the average last occurrence in the spring is May 26.

STATION LOCATION

SAULT STE. MARIE, MICHIGAN

| LOCATION | Occupied From | Occupied To | Airline Distances and Directions from previous Location | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE | | | | | | | | | | AUTOMATIC OBSERVING EQUIPMENT * | * TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS |
|---|--------------------------|-------------------------|---|----------------------|----------------------|-----------------|-----------------|-----------------|----------------------|--------------|-----------------|---------------|--------------------|-------------------|--|---------------------------------|--|
| | | | | | | GROUND | | | | | | | | | | | |
| | | | | | | SEA LEVEL | GROUND | WIND INSTRUMENT | EXTREME THERMOMETERS | PSYCHROMETER | SUNSHINE SWITCH | RAINING GAUGE | WEIGHING RAIN GAGE | 8 INCH RAIN GAGE | HYGROMETER | | |
| *NOTE: <u>AIRPORT</u> National Weather Svce Office, 14th and Davitt Sault Ste Marie Muni Airport | 10/27/82 01/01/97 | 01/01/97 Present | 580' NE NA | 46°28' 46°28' | 84°21' 84°22' | 718 0724 | k20 o724 | 5 5 | 5 5 | 8 8 | 4 4 | 5 5 | 5 n5 m5 | k5 m5 S | k. Not moved 10/27/82. m. Type change 10/4/85. n. Minor adjustment 7/12/86. ASOS Commissioned 01/01/97 o. Ground Elevation | | |

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* NOTES: For earlier station history see previous editions.