

# Traverse City Christmas Day Climate Records\*

| YEAR | DATE   | DAY | MAX | MIN | PRECIP | SNOW | SNOW DEPTH |
|------|--------|-----|-----|-----|--------|------|------------|
| 1896 | 25-Dec | Fri | 30  | M   | 0.00   | 0.0  | 0          |
| 1897 | 25-Dec | Sat | 32  | M   | 0.00   | 0.0  | 0          |
| 1898 | 25-Dec | Sun | 28  | 3   | 0.00   | 0.0  | 0          |
| 1899 | 25-Dec | Mon | 14  | 11  | 0.20   | 2.0  | 3          |
| 1900 | 25-Dec | Tue | 28  | 20  | 0.30   | 3.0  | 3          |
| 1901 | 25-Dec | Wed | M   | M   | M      | M    | M          |
| 1902 | 25-Dec | Thu | 32  | 20  | 0.30   | 3.0  | 6          |
| 1903 | 25-Dec | Fri | 15  | 4   | T      | T    | 16         |
| 1904 | 25-Dec | Sun | 28  | 12  | 0.00   | 0.0  | 2          |
| 1905 | 25-Dec | Mon | 31  | 22  | 0.00   | 0.0  | 4          |
| 1906 | 25-Dec | Tue | 30  | 4   | 0.00   | 0.0  | 2          |
| 1907 | 25-Dec | Wed | 38  | 28  | 0.00   | 0.0  | 3          |
| 1908 | 25-Dec | Fri | 40  | 28  | 0.05   | 0.5  | 5          |
| 1909 | 25-Dec | Sat | 18  | 15  | M      | 2.0  | 21         |
| 1910 | 25-Dec | Sun | 21  | 16  | 0.17   | 2.0  | 19         |
| 1911 | 25-Dec | Mon | 38  | 28  | 0.00   | 0.0  | 0          |
| 1912 | 25-Dec | Wed | 42  | 22  | 0.00   | 0.0  | 0          |
| 1913 | 25-Dec | Thu | 45  | 29  | 0.00   | 0.0  | 0          |
| 1914 | 25-Dec | Fri | 20  | 11  | 0.00   | 0.0  | 15         |
| 1915 | 25-Dec | Sat | 32  | 27  | 0.00   | 0.0  | 7          |
| 1916 | 25-Dec | Mon | 30  | 18  | 0.10   | 1.0  | 12         |
| 1917 | 25-Dec | Tue | 30  | 8   | 0.00   | 0.0  | 2          |
| 1918 | 25-Dec | Wed | 30  | 23  | 0.47   | 5.0  | 6          |
| 1919 | 25-Dec | Thu | 29  | 4   | 0.00   | 0.0  | 8          |
| 1920 | 25-Dec | Sat | 23  | 9   | 0.00   | 0.0  | 6          |
| 1921 | 25-Dec | Sun | 22  | 8   | 0.00   | 0.0  | 13         |
| 1922 | 25-Dec | Mon | 39  | 24  | 0.02   | 0.0  | 2          |
| 1923 | 25-Dec | Tue | 37  | 30  | T      | T    | 0          |
| 1924 | 25-Dec | Thu | 18  | 2   | 0.10   | 1.0  | 13         |
| 1925 | 25-Dec | Fri | 31  | 15  | 0.10   | 1.0  | 3          |
| 1926 | 25-Dec | Sat | 40  | 18  | 0.00   | 0.0  | 8          |
| 1927 | 25-Dec | Sun | 29  | 16  | 0.00   | 0.0  | 4          |
| 1928 | 25-Dec | Tue | 38  | 33  | 0.00   | 0.0  | 4          |
| 1929 | 25-Dec | Wed | 30  | 25  | 0.00   | 0.0  | 6          |
| 1930 | 25-Dec | Thu | 37  | 25  | 0.00   | 0.0  | 1          |
| 1931 | 25-Dec | Fri | 37  | 28  | M      | T    | 0          |
| 1932 | 25-Dec | Sun | 48  | 37  | 0.07   | 0.0  | 0          |
| 1933 | 25-Dec | Mon | 24  | 4   | 0.00   | 0.0  | 11         |
| 1934 | 25-Dec | Tue | 31  | 15  | 0.00   | 0.0  | 1          |
| 1935 | 25-Dec | Wed | 22  | 7   | 0.01   | 0.5  | 9          |
| 1936 | 25-Dec | Fri | 47  | 35  | 0.43   | 0.0  | 0          |
| 1937 | 25-Dec | Sat | 31  | 26  | 0.00   | 0.0  | 18         |
| 1938 | 25-Dec | Sun | 32  | 26  | 0.03   | 0.5  | 3          |

|      |        |     |    |    |      |     |    |
|------|--------|-----|----|----|------|-----|----|
| 1939 | 25-Dec | Mon | 34 | 29 | 0.00 | 0.0 | 1  |
| 1940 | 25-Dec | Wed | 52 | 36 | 0.00 | 0.0 | 0  |
| 1941 | 25-Dec | Thu | 34 | 25 | 0.00 | 0.0 | 0  |
| 1942 | 25-Dec | Fri | 28 | 22 | 0.00 | 0.0 | 8  |
| 1943 | 25-Dec | Sat | 36 | 22 | 0.00 | 0.0 | 8  |
| 1944 | 25-Dec | Mon | 24 | 8  | 0.01 | T   | 7  |
| 1945 | 25-Dec | Tue | 35 | 25 | 0.50 | 3.0 | 8  |
| 1946 | 25-Dec | Wed | 28 | 18 | 0.04 | 1.0 | 2  |
| 1947 | 25-Dec | Thu | 30 | 25 | 0.20 | 3.0 | 6  |
| 1948 | 25-Dec | Sat | 17 | 7  | 0.11 | M   | M  |
| 1949 | 25-Dec | Sun | 39 | 20 | 0.11 | T   | 1  |
| 1950 | 25-Dec | Mon | 16 | 9  | 0.04 | 1.7 | 7  |
| 1951 | 25-Dec | Tue | 24 | 13 | T    | T   | 12 |
| 1952 | 25-Dec | Thu | 34 | 26 | 0.05 | 0.6 | T  |
| 1953 | 25-Dec | Fri | 40 | 32 | T    | 0.0 | 1  |
| 1954 | 25-Dec | Sat | 40 | 31 | 0.00 | 0.0 | 4  |
| 1955 | 25-Dec | Sun | 34 | 23 | 0.00 | 0.0 | 6  |
| 1956 | 25-Dec | Tue | 32 | 26 | T    | T   | 2  |
| 1957 | 25-Dec | Wed | 36 | 20 | 0.11 | T   | 0  |
| 1958 | 25-Dec | Thu | 21 | -4 | 0.03 | 0.8 | 19 |
| 1959 | 25-Dec | Fri | 33 | 27 | T    | 0.0 | 2  |
| 1960 | 25-Dec | Sun | 30 | 21 | T    | T   | 11 |
| 1961 | 25-Dec | Mon | 30 | 24 | 0.01 | 0.1 | 5  |
| 1962 | 25-Dec | Tue | 24 | 16 | 0.14 | 1.3 | 10 |
| 1963 | 25-Dec | Wed | 31 | 21 | T    | T   | 12 |
| 1964 | 25-Dec | Fri | 35 | 31 | 0.01 | 0.2 | 1  |
| 1965 | 25-Dec | Sat | 28 | 21 | 0.00 | 0.0 | 1  |
| 1966 | 25-Dec | Sun | 24 | 15 | 0.09 | 0.6 | 7  |
| 1967 | 25-Dec | Mon | 30 | 13 | 0.06 | 2.8 | 5  |
| 1968 | 25-Dec | Wed | 15 | 3  | 0.12 | 1.3 | 8  |
| 1969 | 25-Dec | Thu | 25 | 16 | T    | T   | 4  |
| 1970 | 25-Dec | Fri | 22 | 14 | 0.13 | 2.3 | 5  |
| 1971 | 25-Dec | Sat | 37 | 25 | T    | T   | T  |
| 1972 | 25-Dec | Mon | 34 | 29 | 0.04 | 0.3 | 7  |
| 1973 | 25-Dec | Tue | 41 | 27 | 0.33 | 0.0 | 2  |
| 1974 | 25-Dec | Wed | 33 | 23 | 0.03 | 0.2 | 1  |
| 1975 | 25-Dec | Thu | 27 | 25 | T    | T   | 2  |
| 1976 | 25-Dec | Sat | 29 | 15 | 0.01 | 0.2 | 7  |
| 1977 | 25-Dec | Sun | 22 | 6  | 0.14 | 2.5 | 2  |
| 1978 | 25-Dec | Mon | 27 | 19 | 0.04 | 0.5 | 7  |
| 1979 | 25-Dec | Tue | 34 | 29 | 0.08 | T   | 0  |
| 1980 | 25-Dec | Thu | 18 | 9  | 0.02 | 0.4 | 8  |
| 1981 | 25-Dec | Fri | 28 | 0  | 0.01 | 0.1 | 3  |
| 1982 | 25-Dec | Sat | 58 | 36 | 0.06 | 0.0 | 0  |
| 1983 | 25-Dec | Sun | 7  | 5  | 0.07 | 1.1 | 10 |
| 1984 | 25-Dec | Tue | 20 | -2 | 0.11 | 1.3 | 6  |
| 1985 | 25-Dec | Wed | 15 | 7  | 0.44 | 7.0 | 22 |

|      |        |     |    |    |      |     |    |
|------|--------|-----|----|----|------|-----|----|
| 1986 | 25-Dec | Thu | 34 | 30 | T    | T   | T  |
| 1987 | 25-Dec | Fri | 37 | 27 | 0.09 | 1.1 | 4  |
| 1988 | 25-Dec | Sun | 30 | 18 | T    | T   | 1  |
| 1989 | 25-Dec | Mon | 28 | 14 | 0.09 | 3.0 | 23 |
| 1990 | 25-Dec | Tue | 23 | 6  | 0.06 | 4.7 | 3  |
| 1991 | 25-Dec | Wed | 38 | 26 | 0.00 | 0.0 | 1  |
| 1992 | 25-Dec | Fri | 29 | 12 | 0.60 | 6.0 | 6  |
| 1993 | 25-Dec | Sat | 15 | 2  | 0.73 | 6.4 | 7  |
| 1994 | 25-Dec | Sun | 34 | 24 | M    | 0.0 | 0  |
| 1995 | 25-Dec | Mon | 27 | 19 | M    | 7.4 | 16 |
| 1996 | 25-Dec | Wed | 16 | 12 | M    | M   | 6  |
| 1997 | 25-Dec | Thu | 37 | 32 | M    | M   | 2  |
| 1998 | 25-Dec | Fri | 31 | 8  | 0.01 | M   | 3  |
| 1999 | 25-Dec | Sat | 34 | 12 | T    | M   | 3  |
| 2000 | 25-Dec | Mon | 19 | 9  | T    | M   | 13 |
| 2001 | 25-Dec | Tue | 24 | 17 | T    | M   | 4  |
| 2002 | 25-Dec | Wed | 32 | 27 | 0.00 | 0.0 | 1  |
| 2003 | 25-Dec | Thu | 34 | 17 | 0.23 | 3.0 | 4  |
| 2004 | 25-Dec | Sat | 13 | -6 | 0.02 | 0.5 | 11 |
| 2005 | 25-Dec | Sun | 37 | 34 | 0.04 | 0.0 | T  |
| 2006 | 25-Dec | Mon | 38 | 32 | 0.00 | 0.0 | 0  |
| 2007 | 25-Dec | Tue | 35 | 25 | T    | 0.2 | 5  |
| 2008 | 25-Dec | Thu | 25 | 18 | 0.26 | 3.1 | 12 |
| 2009 | 25-Dec | Fri | 39 | 32 | 0.04 | 0.1 | 5  |
| 2010 | 25-Dec | Sat | 30 | 19 | 0.00 | 0.0 | 6  |
| 2011 | 25-Dec | Sun | 38 | 34 | 0.00 | 0.0 | T  |
| 2012 | 25-Dec | Tue | 29 | 25 | 0.11 | 0.7 | 3  |
| 2013 | 25-Dec | Wed | 24 | 13 | 0.05 | 1.7 | 15 |
| 2014 | 25-Dec | Thu | 38 | 35 | 0.19 | 0.0 | T  |
| 2015 | 25-Dec | Fri | 40 | 27 | 0.00 | 0.0 | 0  |
| 2016 | 25-Dec | Sun | 36 | 31 | 0.00 | 0.0 | 6  |
| 2017 | 25-Dec | Mon | 21 | 4  | 0.13 | 1.5 | 7  |
| 2018 | 25-Dec | Tue | 34 | 17 | T    | T   | 2  |
| 2019 | 25-Dec | Wed | 48 | 35 | 0.00 | 0.0 | 0  |
| 2020 | 25-Dec | Fri | 26 | 18 | 0.13 | 2.0 | 2  |
| 2021 | 25-Dec | Sat | 44 | 31 | 0.02 | 0.0 | 0  |
| 2022 | 25-Dec | Sun | 21 | 16 | 0.14 | 4.6 | 14 |
| 2023 | 25-Dec | Mon | 58 | 47 | 0.00 | 0.0 | 0  |
| 2024 | 25-Dec | Wed | 35 | 30 | 0.00 | 0.0 | 5  |
| 2025 | 25-Dec | Thu | 35 | 28 | 0.01 | 0.0 | 1  |

**Traverse City Christmas Day Climate Extremes:**

|                      |       |            |
|----------------------|-------|------------|
| Warmest Max:         | 58°   | 1982, 2023 |
| Coldest Max:         | 7°    | 1983       |
| Coldest Min:         | -6°   | 2004       |
| Warmest Min:         | 47°   | 2023       |
| Wettest:             | 0.73" | 1993       |
| Snowiest:            | 7.4"  | 1995       |
| Greatest Snow Depth: | 23"   | 1989       |

**Number of Days With Max Temp:**

|              |    |
|--------------|----|
| < 10°        | 1  |
| 10 to 19°    | 13 |
| 20 to 29°    | 38 |
| 30 to 39°    | 62 |
| 40 to 49°    | 12 |
| 50° or above | 3  |

**Number of Days With Min Temp:**

|              |    |
|--------------|----|
| < -10°       | 0  |
| -10 to -1°   | 3  |
| 0 to 9°      | 24 |
| 10 to 19°    | 33 |
| 20 to 29°    | 46 |
| 30° or above | 21 |

**Number of Days With Precip:**

|                |    |
|----------------|----|
| 0.00"          | 42 |
| Trace          | 18 |
| 0.01 - 0.24"   | 53 |
| 0.25 - 0.49"   | 7  |
| 0.50 - 0.99"   | 3  |
| 1.00" or above | 0  |

**Number of Days With Snowfall:**

|                |    |
|----------------|----|
| 0.0"           | 54 |
| Trace          | 17 |
| 0.1 - 0.9"     | 18 |
| 1.0 - 4.9"     | 28 |
| 5.0 - 9.9"     | 5  |
| 10.0" or above | 0  |

**Period of Record Averages**

|                |      |
|----------------|------|
| Avg MaxT       | 31   |
| Avg MinT       | 20   |
| Avg Precip     | 0.07 |
| Avg Snowfall   | 0.8  |
| Avg Snow Depth | 5    |

**Number of White Christmas Occurrences Since 1896:** 101

**Probability of White Christmas Since 1896:** 81%

***\*Data for Traverse City is derived from a composite of observations taken at both Cherry Capital Airport and the cooperative observing station at Munson Medical Center. This data is for informational purposes only and does not meet climatological standards. This data set may include periods with missing data.***