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CSCI 150

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The state of [Georgia’s](http://www.georgia.gov/00/home/0%2C2061%2C4802%2C00.html;jsessionid=95F809B684D1DF4C177020024576A67E) climate differs than that of any other state in the United States. The National Climate Data Center has recorded climate information from 1960 to 2009. Charted below are the heating degree days as well as cooling degree days. Heating degree days include the temperature necessary to heat a business on days where the temperatures are below 65 degrees Fahrenheit. Cooling degree days are just the opposite. The temperatures on these days are the degrees needed to cool down a business or institution on days when the weather is above 65 degrees Fahrenheit.

It is interesting to examine the weather patterns in history. According to the National Climate Data Center, the coldest day in Georgia to date was January 27, 1940. The temperature was -17 degrees Fahrenheit ("Climate Data for Georgia"). The hottest temperature was drastically higher. It was 108 degrees in the summer of 1983 ("Climate Data for Georgia”).

According to the U.S. Census Bureau, in 2009, there were an estimated 9,829,211 people living in Georgia. There are 141.4 persons per square mile (United States). Land area: 57,906.14 square miles (2000). Georgia is located in the Southeastern United States, bordering Florida, Alabama, Tennessee, North Carolina, and South Carolina, along with the Atlantic Ocean. Some major rivers include Chattahoochee River, Savannah River, Suwannee River (Col). Larger lakes include Lake Sidney Lanier, Clark Hill Lake, West Point Lake, Lake Hartwell. The highest point is Brasstown Bald (Col).

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| --- | --- | --- | --- | --- | --- |
| **Sum of Heating Degree Days** | Season |  |  |  |  |
| Year | Autumn | Spring | Summer | Winter | Grand Total |
| 1960 | -2.1 | 15.7 | -41.5 | 58.8 | 30.9 |
| 1961 | -1 | 9.4 | -36 | 52.5 | 24.9 |
| 1962 | 3.9 | 7.1 | -41.4 | 50.2 | 19.8 |
| 1963 | 3.4 | 0.5 | -38.8 | 69.1 | 34.2 |
| 1964 | 3.8 | 5 | -38.6 | 56.5 | 26.7 |
| 1965 | 1.4 | 2.8 | -36.6 | 52 | 19.6 |
| 1966 | 4.2 | 9.7 | -36.2 | 59.5 | 37.2 |
| 1967 | 12.2 | -0.4 | -32.6 | 49.4 | 28.6 |
| 1968 | 5.1 | 7.5 | -40.8 | 66.6 | 38.4 |
| 1969 | 6 | 12 | -40.6 | 60.7 | 38.1 |
| 1970 | 0.2 | 3 | -39.3 | 59.4 | 23.3 |
| 1971 | -2.7 | 14.4 | -38.8 | 45 | 17.9 |
| 1972 | 0.7 | 7.2 | -35.6 | 43.8 | 16.1 |
| 1973 | -5.9 | 6.5 | -39.8 | 56.5 | 17.3 |
| 1974 | 7.6 | 0.2 | -35.1 | 39.4 | 12.1 |
| 1975 | 0.4 | 5.3 | -38 | 45.4 | 13.1 |
| 1976 | 15.6 | 4.7 | -35.6 | 54.7 | 39.4 |
| 1977 | 0.7 | -1 | -44.7 | 67.9 | 22.9 |
| 1978 | -5 | 7.1 | -42.6 | 66.9 | 26.4 |
| 1979 | 2.3 | 3.7 | -37.6 | 62.1 | 30.5 |
| 1980 | 2.4 | 8.2 | -46.2 | 57.3 | 21.7 |
| 1981 | 5.8 | 7 | -44.6 | 61.7 | 29.9 |
| 1982 | 1.1 | 3.6 | -39.8 | 46.9 | 11.8 |
| 1983 | 3.9 | 12.3 | -42.3 | 60.3 | 34.2 |
| 1984 | 0.5 | 9.1 | -38.1 | 46.7 | 18.2 |
| 1985 | -10.6 | 1.2 | -39.5 | 61.5 | 12.6 |
| 1986 | -7.8 | 2.7 | -47.5 | 47.4 | -5.2 |
| 1987 | 5.4 | 6.9 | -45.1 | 51.6 | 18.8 |
| 1988 | 3.9 | 7.6 | -41.2 | 59.4 | 29.7 |
| 1989 | 1.8 | 5.9 | -39.9 | 51.7 | 19.5 |
| 1990 | -3.7 | 2.9 | -44.9 | 35.9 | -9.8 |
| 1991 | 3.7 | -3.4 | -40.3 | 44.9 | 4.9 |
| 1992 | 4.6 | 11 | -37.4 | 48.9 | 27.1 |
| 1993 | 0.1 | 13.7 | -46.7 | 52.1 | 19.2 |
| 1994 | 0.2 | 3.5 | -37.7 | 50.3 | 16.3 |
| 1995 | 6 | -0.4 | -42.3 | 55.3 | 18.6 |
| 1996 | 6.3 | 10.3 | -39.6 | 52.5 | 29.5 |
| 1997 | 4.9 | 5.9 | -35.9 | 48 | 22.9 |
| 1998 | -7.6 | 4.8 | -47.8 | 42.2 | -8.4 |
| 1999 | -0.1 | 5.1 | -43.4 | 45.6 | 7.2 |
| 2000 | 5.7 | 2 | -42.8 | 56.6 | 21.5 |
| 2001 | 1.8 | 6.7 | -39.6 | 45.1 | 14 |
| 2002 | -2 | 0.2 | -42.6 | 52.9 | 8.5 |
| 2003 | -1.6 | 1.7 | -38.9 | 59.1 | 20.3 |
| 2004 | -3.6 | 0.2 | -40.5 | 57.1 | 13.2 |
| 2005 | -4.2 | 13.1 | -42.4 | 50.9 | 17.4 |
| 2006 | 5.6 | 1.8 | -44.7 | 44.2 | 6.9 |
| 2007 | -1.7 | 3.9 | -44.7 | 46.9 | 4.4 |
| 2008 | 6.9 | 7.6 | -42.7 | 47.8 | 19.6 |
| 2009 | 1.1 | 6.2 | -41.9 | 55.1 | 20.5 |
| **Grand Total** | **79.6** | **281.7** | **-2031.2** | **2652.3** | **982.4** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sum of Cooling Degree Days** | Season |  |  |  |  |
| Year | Autumn | Spring | Summer | Winter | Grand Total |
| 1960 | 2.1 | -15.7 | 41.5 | -58.8 | -30.9 |
| 1961 | 1 | -9.4 | 36 | -52.5 | -24.9 |
| 1962 | -3.9 | -7.1 | 41.4 | -50.2 | -19.8 |
| 1963 | -3.4 | -0.5 | 38.8 | -69.1 | -34.2 |
| 1964 | -3.8 | -5 | 38.6 | -56.5 | -26.7 |
| 1965 | -1.4 | -2.8 | 36.6 | -52 | -19.6 |
| 1966 | -4.2 | -9.7 | 36.2 | -59.5 | -37.2 |
| 1967 | -12.2 | 0.4 | 32.6 | -49.4 | -28.6 |
| 1968 | -5.1 | -7.5 | 40.8 | -66.6 | -38.4 |
| 1969 | -6 | -12 | 40.6 | -60.7 | -38.1 |
| 1970 | -0.2 | -3 | 39.3 | -59.4 | -23.3 |
| 1971 | 2.7 | -14.4 | 38.8 | -45 | -17.9 |
| 1972 | -0.7 | -7.2 | 35.6 | -43.8 | -16.1 |
| 1973 | 5.9 | -6.5 | 39.8 | -56.5 | -17.3 |
| 1974 | -7.6 | -0.2 | 35.1 | -39.4 | -12.1 |
| 1975 | -0.4 | -5.3 | 38 | -45.4 | -13.1 |
| 1976 | -15.6 | -4.7 | 35.6 | -54.7 | -39.4 |
| 1977 | -0.7 | 1 | 44.7 | -67.9 | -22.9 |
| 1978 | 5 | -7.1 | 42.6 | -66.9 | -26.4 |
| 1979 | -2.3 | -3.7 | 37.6 | -62.1 | -30.5 |
| 1980 | -2.4 | -8.2 | 46.2 | -57.3 | -21.7 |
| 1981 | -5.8 | -7 | 44.6 | -61.7 | -29.9 |
| 1982 | -1.1 | -3.6 | 39.8 | -46.9 | -11.8 |
| 1983 | -3.9 | -12.3 | 42.3 | -60.3 | -34.2 |
| 1984 | -0.5 | -9.1 | 38.1 | -46.7 | -18.2 |
| 1985 | 10.6 | -1.2 | 39.5 | -61.5 | -12.6 |
| 1986 | 7.8 | -2.7 | 47.5 | -47.4 | 5.2 |
| 1987 | -5.4 | -6.9 | 45.1 | -51.6 | -18.8 |
| 1988 | -3.9 | -7.6 | 41.2 | -59.4 | -29.7 |
| 1989 | -1.8 | -5.9 | 39.9 | -51.7 | -19.5 |
| 1990 | 3.7 | -2.9 | 44.9 | -35.9 | 9.8 |
| 1991 | -3.7 | 3.4 | 40.3 | -44.9 | -4.9 |
| 1992 | -4.6 | -11 | 37.4 | -48.9 | -27.1 |
| 1993 | -0.1 | -13.7 | 46.7 | -52.1 | -19.2 |
| 1994 | -0.2 | -3.5 | 37.7 | -50.3 | -16.3 |
| 1995 | -6 | 0.4 | 42.3 | -55.3 | -18.6 |
| 1996 | -6.3 | -10.3 | 39.6 | -52.5 | -29.5 |
| 1997 | -4.9 | -5.9 | 35.9 | -48 | -22.9 |
| 1998 | 7.6 | -4.8 | 47.8 | -42.2 | 8.4 |
| 1999 | 0.1 | -5.1 | 43.4 | -45.6 | -7.2 |
| 2000 | -5.7 | -2 | 42.8 | -56.6 | -21.5 |
| 2001 | -1.8 | -6.7 | 39.6 | -45.1 | -14 |
| 2002 | 2 | -0.2 | 42.6 | -52.9 | -8.5 |
| 2003 | 1.6 | -1.7 | 38.9 | -59.1 | -20.3 |
| 2004 | 3.6 | -0.2 | 40.5 | -57.1 | -13.2 |
| 2005 | 4.2 | -13.1 | 42.4 | -50.9 | -17.4 |
| 2006 | -5.6 | -1.8 | 44.7 | -44.2 | -6.9 |
| 2007 | 1.7 | -3.9 | 44.7 | -46.9 | -4.4 |
| 2008 | -6.9 | -7.6 | 42.7 | -47.8 | -19.6 |
| 2009 | -1.1 | -6.2 | 41.9 | -55.1 | -20.5 |
| **Grand Total** | **-79.6** | **-281.7** | **2031.2** | **-2652.3** | **-982.4** |

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