

Heating Degree Days

A heating degree day is basically a measure of how cold it has been.

When heating a space, fuel demand varies according to how cold it is. Degree day units were developed to help in estimating the heat requirements and fuel costs for a building.

When the outside air is above a certain temperature no heat is required. This is what we refer to as a base temperature. 65° F is used as the base temperature for calculating heating degree-days.

If you take the average daily temperature and subtract it from 65° F you can determine your degree-days. Each degree accounts for one degree day.

If today's High temperature is 50° F and the Low is 30° F our average daily temperature is 40° F. Subtract 40° F from 65° F and you will see that there are 25 degree days for today.

Heating costs are directly proportional to the number of degree days in a year.

Heating Degree Days

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | Total |
|------|---------|-------|-------|-------|-------|------|-----|------|------|-------|-------|---------|---------|
| 2001 | 867.0 | 514.0 | 563.0 | 116.0 | 9.0 | 2.0 | 0.0 | 0.0 | 62.0 | 213.0 | 278.0 | 571.0 | 3,195.0 |
| 2002 | 700.0 | 708.0 | 467.0 | 156.0 | 113.0 | 1.0 | 0.0 | 0.0 | 1.0 | 143.0 | 539.0 | 729.0 | 3,557.0 |
| 2003 | 982.0 | 715.0 | 424.0 | 191.0 | 48.0 | 11.0 | 0.0 | 0.0 | 51.0 | 216.0 | 389.0 | 830.0 | 3,857.0 |
| 2004 | 883.0 | 738.0 | 406.0 | 247.0 | 53.0 | 2.0 | 0.0 | 19.0 | 27.0 | 105.0 | 393.0 | 817.0 | 3,690.0 |
| 2005 | 685.0 | 595.0 | 541.0 | 234.0 | 115.0 | 0.0 | 0.0 | 0.0 | 8.0 | 233.0 | 406.0 | 839.0 | 3,656.0 |
| 2006 | 553.0 | 667.0 | 442.0 | 90.0 | 63.0 | 0.0 | 0.0 | 0.0 | 49.0 | 274.0 | 475.0 | 597.0 | 3,210.0 |
| 2007 | 691.0 | 719 | 265.0 | 279 | 32.0 | 0.0 | 0.0 | 0.0 | 7.0 | 137.0 | 473.0 | 542.0 | 3,145.0 |
| 2008 | 791.0 | 583.0 | 413.0 | 223.0 | 65.0 | 0.0 | 0.0 | 0.0 | 2.0 | 239.0 | 587.0 | 725.0 | 3,625.0 |
| 2009 | 848.0 | 606.0 | 398.0 | 242.0 | 43.0 | 4.0 | 0.0 | 0.0 | 13.0 | 290.0 | 500.0 | 840.0 | 3,784.0 |
| 2010 | 1,056.0 | 911.0 | 601.0 | 172.0 | 42.0 | 0.0 | 0.0 | 0.0 | 31.0 | 244.0 | 494.0 | 1,023.0 | 4,574.0 |
| 2011 | 1,006.0 | 616.0 | 489.0 | 162.0 | 107.0 | 0.0 | 0.0 | 0.0 | 57.0 | 209.0 | 333.0 | 564.0 | 3,546.0 |
| 2012 | 577.0 | 521.0 | 144.0 | 140.0 | 8.0 | 6.0 | 0.0 | 0.0 | 24.0 | 236.0 | 513.0 | 524.0 | 2,692.0 |
| 2013 | 640.0 | 586.0 | 572.0 | 194.0 | 78.5 | 0.0 | 2.5 | 0.0 | 7.0 | 173.5 | 569.5 | 680.5 | 3,504.0 |
| 2014 | 1,025.5 | 712.5 | 557.0 | 183.5 | 70.5 | 0.0 | 0.0 | 0.0 | 6.0 | 172.5 | 597.0 | 642.0 | 3,966.5 |
| 2015 | 817.5 | 886.5 | 396.0 | 131.5 | 33.5 | 0.0 | 0.0 | 0.0 | 17.0 | 169.0 | 282.5 | 394.0 | 3,127.5 |
| 2016 | 864.0 | 624.5 | 302.0 | 161.5 | 69.5 | 0.0 | 0.0 | 0.0 | 21.0 | 67.0 | 369.5 | 700.0 | 3,179.0 |
| 2017 | 550.5 | 414.5 | 390.5 | 63.0 | 42.5 | 0.0 | 0.0 | 0.0 | 17.5 | 194.0 | 394.5 | 756.5 | 2,823.5 |
| 2018 | 905.5 | 385.5 | 469.5 | 280.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 172.5 | 579.0 | 619.0 | 3,411.5 |
| 2019 | 761.5 | 395.0 | 476.0 | 105.0 | 26.5 | 1.5 | 0.0 | 0.0 | 0.0 | 150.5 | 529.5 | 567.0 | 3,012.5 |
| 2020 | 600.0 | 577.5 | 243.5 | 224.0 | 85.0 | 0.0 | 0.0 | 0.0 | 12.0 | 110.5 | 371.0 | 712.5 | 2,936.0 |
| 2021 | 745.0 | 703.0 | 301.0 | 208.0 | 67.5 | 0.0 | 0.0 | 0.0 | 20.5 | 133.5 | 555.0 | 351.5 | 3,085.0 |
| 2022 | 908.5 | 603.5 | 364.0 | 188.0 | 11.0 | 0.0 | 0.0 | | | | | | 2,075.0 |

Usage in MCF (Thousand Cubic Feet)

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | Total |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| 2001 | 447,937 | 310,362 | 329,372 | 159,110 | 121,809 | 97,701 | 101,791 | 89,263 | 111,721 | 179,515 | 203,515 | 311,868 | 2,463,964 |
| 2002 | 400,958 | 377,064 | 298,593 | 165,558 | 120,249 | 99,687 | 88,683 | 91,446 | 92,811 | 139,783 | 300,719 | 399,748 | 2,575,299 |
| 2003 | 495,624 | 407,793 | 274,728 | 174,472 | 112,707 | 103,413 | 98,672 | 100,233 | 109,571 | 151,979 | 219,360 | 428,221 | 2,676,773 |
| 2004 | 467,503 | 411,145 | 256,243 | 186,041 | 120,396 | 122,495 | 98,417 | 112,253 | 100,175 | 120,535 | 226,666 | 417,573 | 2,639,442 |
| 2005 | 395,355 | 344,805 | 330,408 | 167,032 | 133,361 | 106,928 | 95,890 | 103,768 | 100,693 | 167,280 | 257,821 | 439,690 | 2,643,031 |
| 2006 | 349,180 | 379,831 | 280,920 | 148,884 | 126,155 | 103,425 | 106,542 | 102,583 | 103,663 | 188,588 | 289,904 | 356,140 | 2,535,815 |
| 2007 | 429,627 | 420,115 | 226,814 | 212,025 | 112,733 | 96,233 | 114,796 | 110,344 | 103,949 | 136,216 | 278,687 | 320,006 | 2,561,545 |
| 2008 | 459,068 | 359,822 | 292,502 | 182,738 | 130,659 | 110,881 | 102,081 | 113,819 | 115,521 | 174,036 | 308,740 | 383,571 | 2,733,438 |
| 2009 | 449,829 | 337,133 | 271,933 | 172,481 | 105,236 | 106,634 | 98,303 | 100,958 | 111,215 | 166,159 | 246,984 | 422,711 | 2,589,566 |
| 2010 | 528,353 | 468,197 | 354,179 | 173,382 | 124,289 | 111,878 | 110,130 | 122,845 | 119,606 | 163,181 | 265,815 | 505,018 | 3,046,873 |
| 2011 | 521,738 | 360,436 | 294,603 | 168,053 | 140,825 | 129,798 | 108,061 | 120,554 | 131,448 | 178,922 | 256,083 | 342,973 | 2,753,494 |
| 2012 | 391,771 | 336,206 | 196,311 | 166,260 | 133,647 | 121,181 | 116,979 | 121,088 | 116,566 | 195,657 | 291,233 | 333,072 | 2,520,971 |
| 2013 | 425,089 | 387,485 | 375,927 | 208,934 | 161,053 | 125,427 | 119,797 | 120,208 | 126,083 | 179,533 | 327,161 | 391,882 | 2,948,579 |
| 2014 | 566,254 | 415,470 | 347,622 | 176,880 | 134,737 | 124,604 | 118,977 | 113,245 | 118,743 | 157,684 | 326,042 | 359,837 | 2,960,095 |
| 2015 | 460,611 | 487,972 | 303,189 | 173,915 | 145,694 | 114,659 | 101,957 | 119,699 | 117,617 | 150,876 | 211,178 | 266,360 | 2,653,727 |
| 2016 | 471,152 | 380,070 | 256,105 | 185,427 | 130,898 | 104,092 | 87,109 | 102,889 | 95,933 | 121,743 | 207,132 | 357,963 | 2,500,513 |
| 2017 | 324,071 | 261,414 | 265,875 | 150,460 | 134,817 | 116,913 | 90,285 | 107,327 | 117,894 | 154,454 | 242,460 | 403,840 | 2,369,810 |
| 2018 | 511,916 | 283,332 | 312,206 | 235,343 | 129,744 | 121,057 | 106,425 | 118,843 | 115,709 | 174,679 | 344,629 | 380,801 | 2,834,684 |
| 2019 | 445,097 | 311,785 | 327,691 | 175,910 | 134,984 | 125,513 | 106,298 | 115,698 | 109,968 | 158,689 | 319,268 | 327,144 | 2,658,045 |
| 2020 | 373,187 | 367,533 | 232,419 | 157,515 | 122,627 | 111,054 | 107,167 | 120,902 | 124,163 | 159,132 | 245,458 | 407,015 | 2,528,172 |
| 2021 | 445,541 | 423,371 | 275,913 | 211,196 | 149,447 | 116,370 | 108,007 | 121,448 | 123,579 | 144,058 | 315,867 | 266,982 | 2,701,779 |
| 2022 | 515,950 | 393,674 | 285,010 | 208,240 | 134,846 | 113,574 | 109,134 | | | | | | 1,760,428 |