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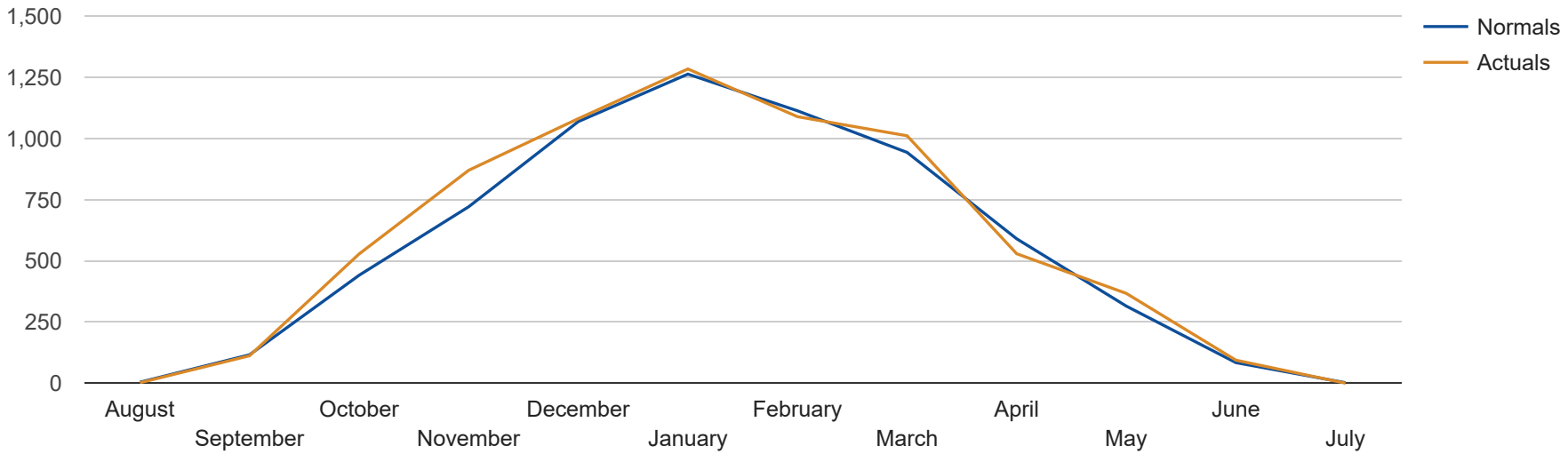
Heating Degree Day Report

Heating degree day (HDD) is a quantitative index designed to reflect the demand for energy needed to heat a home or business. This index is derived from daily temperature observations, and the heating requirements for a given structure at a specific location are considered to be directly proportional to the number of heating degree days at that location. More Details Are Available Below Charts.



* Represents Actual And Normal Heating Degree Days From 8/22/2018 To 7/22/2019

Month	Normal HDDs	Actual HDDs	Difference	% Difference
August 2018	4	2	-2	-33.33 %
September 2018	116	112	-4	-2.65 %
October 2018	441	528	87	16.64 %
November 2018	721	870	149	17.22 %

Month	Normal HDDs	Actual HDDs	Difference	% Difference
December 2018	1069	1081	12	1.20 %
January 2019	1263	1284	21	1.71 %
February 2019	1113	1089	-24	-2.11 %
March 2019	943	1011	68	6.82 %
April 2019	590	529	-61	-11.32 %
May 2019	315	367	52	14.40 %
June 2019	84	94	10	11.58 %
July 2019	2	0	-2	-100 %

More specifically, the number of heating degrees in a day is defined as the difference between a reference value of 65°F (18°C) and the average outside temperature for that day. The value of 65°F is taken as a reference point because experience shows that if the outside temperature is this value then no heating or cooling is normally required. Occupants and equipment within a building usually add enough heat to bring the temperature up to a more comfortable level.

Suppose, for example, that the average temperature for a given day is 55°F. Since this value is ten degrees lower than the reference point of 65°F, one would say this is a ten degree-day. Obviously, the outside temperature is not always constant, so one needs a method to determine the average temperature. A simple way to do this is to compute the arithmetic mean of the high and low temperatures for the day. While not always correct, this is sufficiently accurate for most purposes and is done for practicality because these temperatures are always recorded by the weather bureau. Thus, in the previous example, if the high temperature was, say, 65°F and the low 45°F, then the average would still be 55°F for a ten degree-day.

Heating and cooling degree days can be added over periods of time to provide a rough estimate of seasonal heating and cooling requirements. In the course of a year, for example, the number of heating degree-days for New York City is around 5,000 whereas that for Barrow, Alaska is over 20,000. Thus, one can say that, for a given home of similar structure and insulation, four times the energy would be required to heat that home in Barrow than in New York. (Source: Wikipedia)

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