

Descript Farenheit-based heating degree days for a base temperature of 65°F  
 Source: www.degreedays.net (using temperature data from www.wunderground.com)

Station: APRSWXNET Litchfield ME US, Litchfield, ME, US  
 Station IMC5092



This data is for the **Weston Farm** in Litchfield. They installed a Solar Thermal unit with an "on demand" propane hot water heater to use for their hot water needs for the milking operation. Installed in the fall of 2009.

[http://tonto.eia.doe.gov/energyexplained/index.efm?page=about\\_energy\\_units](http://tonto.eia.doe.gov/energyexplained/index.efm?page=about_energy_units)

| Date      | HDD  | Hi temp | Low temp | BTU's generated  | Comments          | BTU generation data is from Lance's record taken directly from the meters. |
|-----------|------|---------|----------|------------------|-------------------|--|
| 1/1/2010  | 38   | 32      | 22       | -                | Heavy Snow        | BTU generation data is from Lance's record taken directly from the meters. |
| 1/2/2010  | 42   | 24      | 21       | -                | Heavy Snow        |  |
| 1/3/2010  | 33   | 36      | 23       | 42,000           | Partially covered |  |
| 1/4/2010  | 33   | 36      | 27       | 93,000           |                   |  |
| 1/5/2010  | 36   | 33      | 25       | 89,000           |                   |  |
| 1/6/2010  | 37   | 33      | 24       | 191,000          |                   |  |
| 1/7/2010  | 39   | 32      | 20       | 215,000          |                   |  |
| 1/8/2010  | 48   | 24      | 5        | 38,000           |                   |  |
| 1/9/2010  | 48   | 22      | 7        | 270,000          |                   |  |
| 1/10/2010 | 49   | 23      | 11       | 267,000          |                   |  |
| 1/11/2010 | 44   | 31      | 7        | 101,000          |                   |  |
| 1/12/2010 | 46   | 27      | 1        | 261,000          |                   |  |
| 1/13/2010 | 53   | 25      | 0        | 248,000          |                   |  |
| 1/14/2010 | 54   | 31      | -9       | 282,000          |                   |  |
| 1/15/2010 | 35   | 44      | 15       | 86,000           |                   |  |
| 1/16/2010 | 30   | 45      | 26       | 233,000          |                   |  |
| 1/17/2010 | 35   | 36      | 25       | 41,000           |                   |  |
| 1/18/2010 | 42   | 26      | 20       | 140,000          |                   |  |
| 1/19/2010 | 39   | 29      | 24       | 4,000            | Snow              |  |
| 1/20/2010 | 35   | 32      | 26       | 3,000            | Snow              |  |
| 1/21/2010 | 40   | 35      | 11       | 155,000          |                   |  |
| 1/22/2010 | 48   | 33      | 8        | 264,000          |                   |  |
| 1/23/2010 | 50   | 35      | 0        | 180,000          |                   |  |
| 1/24/2010 | 47   | 34      | 6        | 140,000          |                   |  |
| 1/25/2010 | 23   | 49      | 34       | 15,000           |                   |  |
| 1/26/2010 | 29   | 42      | 32       | 77,000           |                   |  |
| 1/27/2010 | 31   | 42      | 26       | 121,000          |                   |  |
| 1/28/2010 | 35   | 36      | 19       | 105,000          |                   |  |
| 1/29/2010 | 54   | 19      | 3        | 301,000          | Bitter cold       |  |
| 1/30/2010 | 57   | 19      | 0        | 297,000          | Cold              |  |
| 1/31/2010 | 55   | 25      | -4       | 247,000          |                   |  |
| 2/1/2010  | 50.5 |         |          | 256,000          |                   |  |
| 2/2/2010  | 46   |         |          | 219,000          |                   |  |
| 2/3/2010  | 45   |         |          | 143,000          |                   |  |
| 2/4/2010  | 45   |         |          | 261,000          |                   |  |
| 2/5/2010  | 45   |         |          | 276,000          |                   |  |
| 2/6/2010  | 53   |         |          | 193,000          |                   |  |
| 2/7/2010  | 47   |         |          | 261,000          |                   |  |
| 2/8/2010  | 42   |         |          | 153,000          |                   |  |
| 2/9/2010  | 36   |         |          | 277,000          |                   |  |
| 10-Feb    |      |         |          | 55,000           |                   |  |
| 11-Feb    |      |         |          | 295,000          |                   |  |
| 12-Feb    |      |         |          | 240,000          |                   |  |
| 13-Feb    |      |         |          | 282,000          |                   |  |
| 14-Feb    |      |         |          | 190,000 estimate |                   |  |

**Conversion table**  
 1 gallon htg oil/diesel ≈ 139,000 Btu  
 1 gallon propane ≈ 91,000 Btu  
 1 gallon kerosene ≈ 135,000 Btu  
 1 Kwh electricity ≈ 3,412 Btu

**January generated**  
 4,506,000 Btu's  
 49.5 ≈ gal propane  
 1321 ≈ Kwh of electricity  
 average daily 155,379 Btu's

**February generated**  
 5,343,000 Btu's  
 58.7 ≈ gal propane  
 1566 ≈ Kwh of electricity  
 average daily 190,821 Btu's

|        |         |               |
|--------|---------|---------------|
| 15-Feb | 138,000 |               |
| 16-Feb | 190,000 | estimate      |
| 17-Feb | 235,000 |               |
| 18-Feb | 272,000 |               |
| 19-Feb | 234,000 |               |
| 20-Feb | 269,000 |               |
| 21-Feb | 231,000 |               |
| 22-Feb | 91,000  | cloudy        |
| 23-Feb | 81,000  | cloudy & rain |
| 24-Feb | 46,000  | heavy rain,   |
| 25-Feb | 50,000  | estimate      |
| 26-Feb | 181,000 |               |
| 27-Feb | 123,000 | mostly rain   |
| 28-Feb | 101,000 | cloudy        |