

**MOUNTAIN HOME AFB ID**

Latitude = 43.05 N

WMO No. 726815

Longitude = 115.80 W

Elevation = 2996 feet

Period of Record = 1967 to 1996

Average Pressure = 26.88 inches Hg

**Design Criteria Data**

|                                                  | <b>Design Value</b> | Mean Coincident (Average) Values |                         |                        |                             |
|--------------------------------------------------|---------------------|----------------------------------|-------------------------|------------------------|-----------------------------|
|                                                  |                     | Wet Bulb Temperature (°F)        | Humidity Ratio (gr/lb)  | Wind Speed (mph)       | Prevailing Direction (NSEW) |
| <b>Dry Bulb Temperature (T)</b>                  | <b>(°F)</b>         |                                  |                         |                        |                             |
| Median of Extreme Highs                          | 104                 | 65                               | 43                      | 6.8                    | N                           |
| 0.4% Occurrence                                  | 99                  | 64                               | 41                      | 7.5                    | N                           |
| 1.0% Occurrence                                  | 96                  | 62                               | 39                      | 7.1                    | NNW                         |
| 2.0% Occurrence                                  | 93                  | 62                               | 41                      | 7.2                    | NNW                         |
| Mean Daily Range                                 | 24                  | -                                | -                       | -                      | -                           |
| 97.5% Occurrence                                 | 17                  | 16                               | 11                      | 4.9                    | ESE                         |
| 99.0% Occurrence                                 | 9                   | 8                                | 7                       | 4.1                    | E                           |
| 99.6% Occurrence                                 | 3                   | 2                                | 5                       | 3.1                    | E                           |
| Median of Extreme Lows                           | -2                  | -2                               | 4                       | 2.3                    | E                           |
|                                                  | <b>Design Value</b> | Mean Coincident (Average) Values |                         |                        |                             |
|                                                  |                     | Dry Bulb Temperature (°F)        | Humidity Ratio (gr/lb)  | Wind Speed (mph)       | Prevailing Direction (NSEW) |
| <b>Wet Bulb Temperature (T<sub>wb</sub>)</b>     | <b>(°F)</b>         |                                  |                         |                        |                             |
| Median of Extreme Highs                          | 69                  | 93                               | 75                      | 8.9                    | E                           |
| 0.4% Occurrence                                  | 66                  | 91                               | 65                      | 7.6                    | E                           |
| 1.0% Occurrence                                  | 64                  | 91                               | 56                      | 7.5                    | E                           |
| 2.0% Occurrence                                  | 63                  | 89                               | 54                      | 7.4                    | ESE                         |
|                                                  | <b>Design Value</b> | Mean Coincident (Average) Values |                         |                        |                             |
|                                                  |                     | Dry Bulb Temperature (°F)        | Vapor Pressure (in. Hg) | Wind Speed (mph)       | Prevailing Direction (NSEW) |
| <b>Humidity Ratio (HR)</b>                       | <b>(gr/lb)</b>      |                                  |                         |                        |                             |
| Median of Extreme Highs                          | 94                  | 73                               | 0.56                    | 7.0                    | W                           |
| 0.4% Occurrence                                  | 78                  | 81                               | 0.47                    | 9.9                    | ESE                         |
| 1.0% Occurrence                                  | 72                  | 70                               | 0.44                    | 6.3                    | E                           |
| 2.0% Occurrence                                  | 64                  | 71                               | 0.39                    | 7.3                    | ESE                         |
| <b>Air Conditioning/<br/>Humid Area Criteria</b> | <b># of Hours</b>   | T ≥ 93°F                         | T ≥ 80°F                | T <sub>wb</sub> ≥ 73°F | T <sub>wb</sub> ≥ 67°F      |
|                                                  |                     | 184                              | 854                     | 1                      | 24                          |

**Other Site Data**

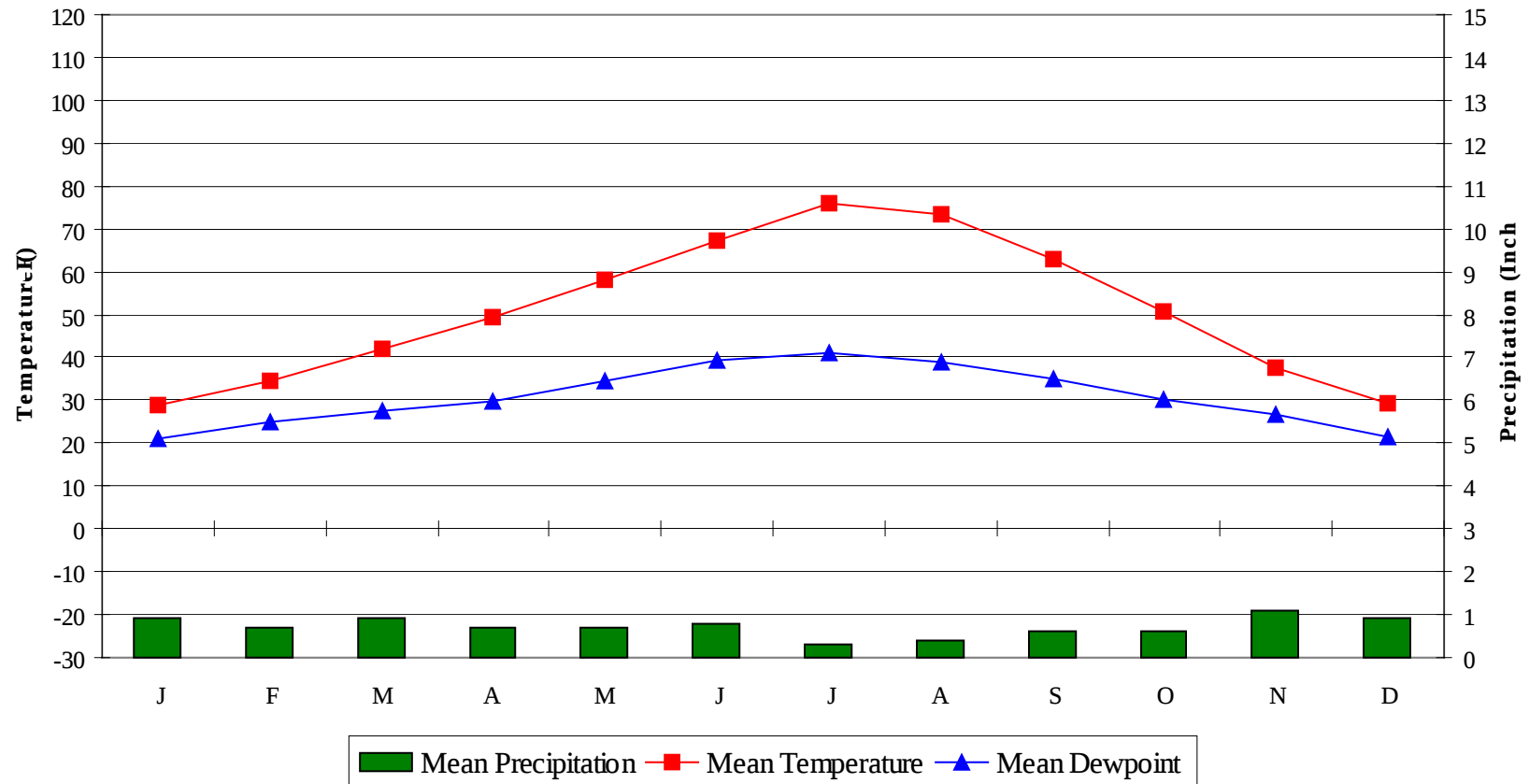
| Weather Region                                   | Rain Rate<br>100 Year Recurrence<br>(in./hr) | Basic Wind Speed<br>3 sec gust @ 33 ft<br>50 Year Recurrence (mph) | Ventilation Cooling Load Index<br>(Ton-hr/cfm/yr) Base 75°F-RH 60%<br>Latent + Sensible |
|--------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 6                                                | 1.0                                          | 90                                                                 | 0.0 + 1.0                                                                               |
| Ground Water Temperature (°F)<br>50 Foot Depth * | Frost Depth<br>50 Year Recurrence<br>(in.)   | Ground Snow Load<br>50 Year Recurrence<br>(lb/ft <sup>2</sup> )    | Average Annual<br>Freeze-Thaw Cycles<br>(#)                                             |
| 53.5                                             | 64                                           | 9                                                                  | 89                                                                                      |

\*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

MOUNTAIN HOME AFB ID

WMO No. 726815

### Average Annual Climate

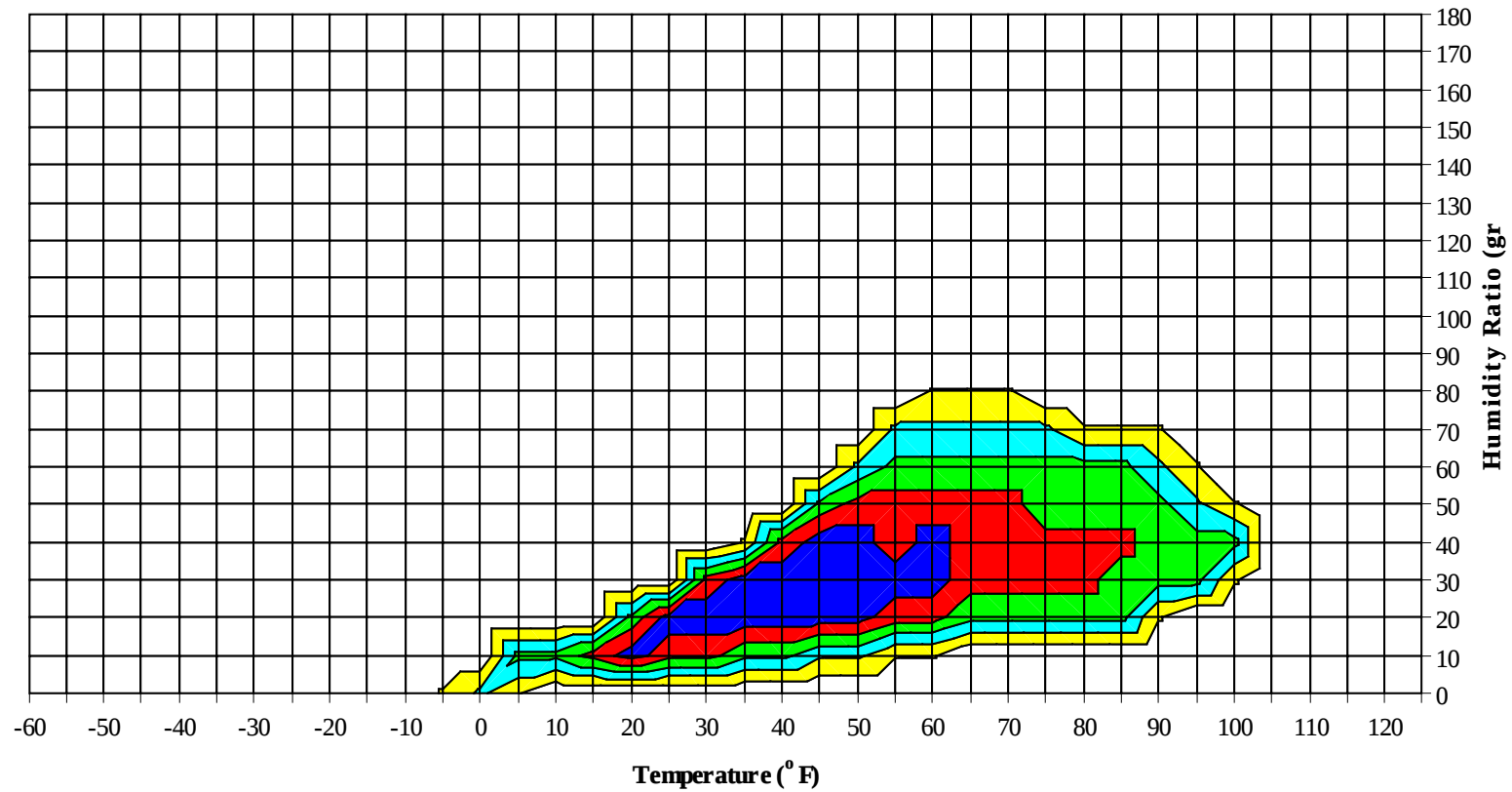


MOUNTAIN HOME AFB

ID

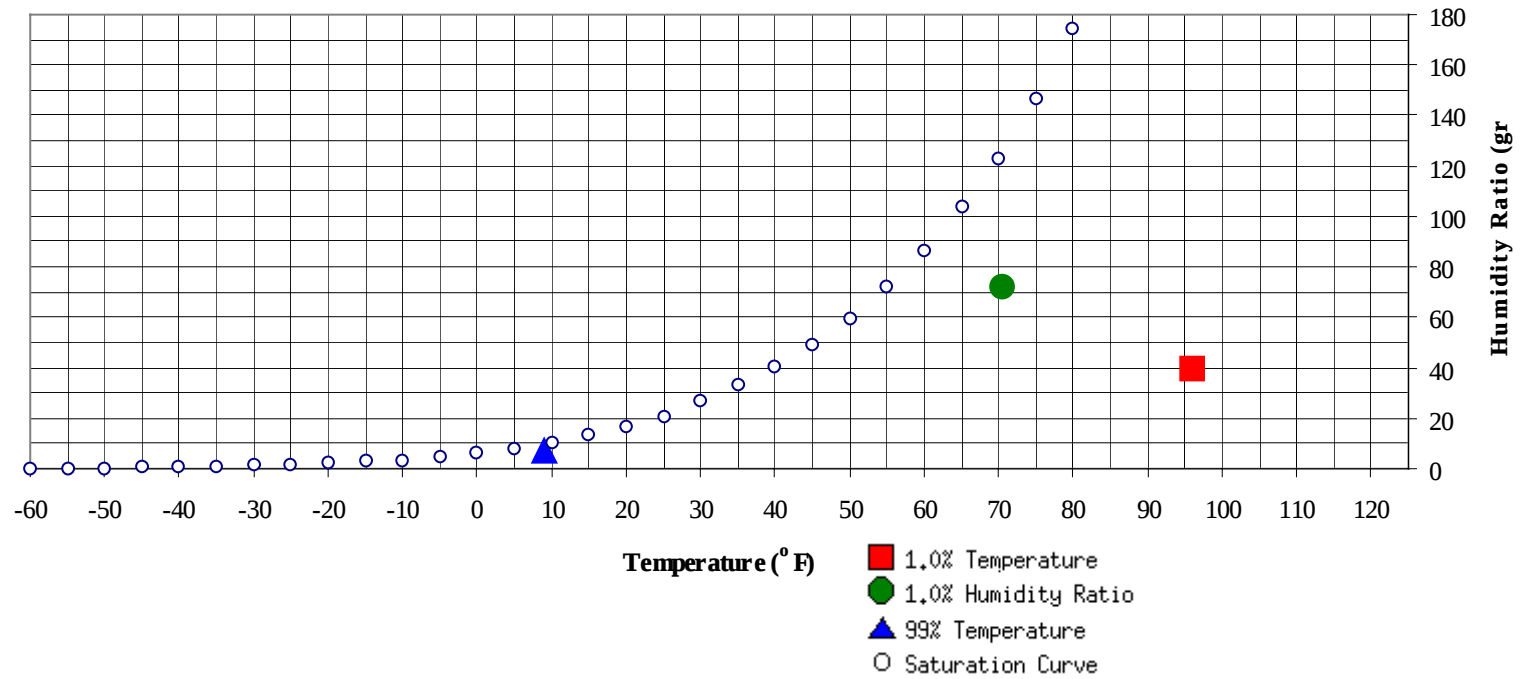
WMO No. 726815

### Long Term Psychrometric Summary



- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

## Psychrometric Summary of Peak Design Values



|              | (°F) | MCHR    | Enthalpy | 1.0% Humidity | (gr/lb) | MCDB | MCWB | MC Dewpt | Enthalpy |
|--------------|------|---------|----------|---------------|---------|------|------|----------|----------|
|              |      | (gr/lb) | (btu/lb) |               |         | (°F) | (°F) | (°F)     | (btu/lb) |
| 99% Dry Bulb | 9    | 7.1     | 3.2      | Ratio         | 72.1    | 70.5 | 60.5 | 55.1     | 28.2     |

| 1.0% Dry Bulb | (°F) | MCHR    | MCWB | Enthalpy |
|---------------|------|---------|------|----------|
|               |      | (gr/lb) | (°F) | (btu/lb) |
|               | 96   | 39.5    | 62.3 | 29.3     |

**MOUNTAIN HOME AFB      ID      WMO No. 726815**  
**Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)**  
**Period of Record = 1967 to 1996**

| Temperature<br>Range<br>(°F) | January             |                |                |              |                          | February            |                |                |              |                          | March               |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|
|                              | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) |
|                              | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          |
| 110 / 114                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 105 / 109                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 90 / 94                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 85 / 89                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 80 / 84                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                | 0              | 0            | 53.0                     |
| 75 / 79                      |                     |                |                |              |                          |                     |                |                |              |                          |                     | 0              | 0              | 1            | 52.5                     |
| 70 / 74                      |                     |                |                |              |                          |                     | 0              |                | 0            | 52.0                     |                     | 2              | 1              | 4            | 50.8                     |
| 65 / 69                      |                     |                |                |              |                          |                     | 1              | 0              | 2            | 50.4                     |                     | 6              | 3              | 10           | 48.7                     |
| 60 / 64                      |                     | 0              | 0              | 0            | 43.3                     |                     | 3              | 1              | 4            | 47.3                     | 0                   | 14             | 7              | 21           | 46.6                     |
| 55 / 59                      | 0                   | 1              | 0              | 1            | 45.6                     |                     | 8              | 3              | 11           | 45.1                     | 1                   | 29             | 16             | 46           | 44.4                     |
| 50 / 54                      | 0                   | 4              | 1              | 6            | 43.2                     | 0                   | 21             | 10             | 30           | 42.6                     | 3                   | 46             | 32             | 82           | 42.0                     |
| 45 / 49                      | 2                   | 15             | 7              | 24           | 40.6                     | 3                   | 33             | 22             | 58           | 40.2                     | 18                  | 57             | 48             | 123          | 39.4                     |
| 40 / 44                      | 11                  | 29             | 21             | 61           | 37.1                     | 18                  | 42             | 39             | 100          | 36.9                     | 44                  | 49             | 55             | 147          | 36.7                     |
| 35 / 39                      | 33                  | 53             | 44             | 130          | 33.3                     | 43                  | 44             | 51             | 138          | 33.2                     | 60                  | 28             | 45             | 133          | 32.9                     |
| 30 / 34                      | 48                  | 52             | 61             | 161          | 29.3                     | 60                  | 36             | 49             | 144          | 29.4                     | 69                  | 11             | 30             | 110          | 29.0                     |
| 25 / 29                      | 48                  | 39             | 48             | 136          | 24.8                     | 48                  | 19             | 25             | 92           | 25.0                     | 38                  | 4              | 7              | 50           | 24.9                     |
| 20 / 24                      | 44                  | 26             | 28             | 99           | 20.4                     | 26                  | 8              | 11             | 45           | 20.7                     | 10                  | 1              | 1              | 12           | 20.8                     |
| 15 / 19                      | 28                  | 14             | 18             | 60           | 15.6                     | 12                  | 5              | 6              | 23           | 15.9                     | 2                   | 0              | 1              | 3            | 16.2                     |
| 10 / 14                      | 17                  | 8              | 9              | 34           | 10.8                     | 6                   | 2              | 3              | 11           | 11.4                     | 1                   | 0              | 0              | 1            | 11.4                     |
| 5 / 9                        | 8                   | 3              | 5              | 16           | 6.2                      | 3                   | 1              | 1              | 5            | 6.1                      | 0                   | 0              | 0              | 1            | 6.1                      |
| 0 / 4                        | 5                   | 2              | 3              | 10           | 1.2                      | 1                   | 1              | 1              | 3            | 1.2                      | 0                   |                |                | 0            | 2.5                      |
| -5 / -1                      | 2                   | 1              | 1              | 4            | -2.9                     | 1                   | 0              | 1              | 2            | -2.9                     |                     |                |                |              |                          |
| -10 / -6                     | 1                   | 0              | 1              | 2            | -7.8                     | 1                   | 0              | 0              | 2            | -7.0                     |                     |                |                |              |                          |
| -15 / -11                    | 0                   | 0              | 0              | 1            | -11.4                    | 0                   | 0              | 0              | 1            | -10.9                    |                     |                |                |              |                          |
| -20 / -16                    |                     |                |                |              |                          | 0                   |                |                | 0            | -15.0                    |                     |                |                |              |                          |
| -25 / -21                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

**Caution:** This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

**MOUNTAIN HOME AFB ID**

WMO No. 726815

**Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**

**Period of Record = 1967 to 1996**

| Temperature<br>Range<br>(°F) | April               |                |                |              |                          | May                 |                |                |              |                          | June                |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|
|                              | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) |
|                              | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          |
| 110 / 114                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 105 / 109                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     |                |                |              |                          |                     | 0              | 0              | 1            | 64.6                     |                     | 2              | 2              | 4            | 64.3                     |
| 90 / 94                      |                     | 0              | 0              | 0            | 58.2                     |                     | 3              | 2              | 5            | 60.0                     |                     | 7              | 5              | 12           | 62.8                     |
| 85 / 89                      |                     | 1              | 1              | 2            | 56.5                     |                     | 9              | 5              | 14           | 58.1                     |                     | 16             | 11             | 28           | 61.0                     |
| 80 / 84                      |                     | 4              | 2              | 6            | 55.5                     |                     | 16             | 10             | 26           | 56.7                     | 1                   | 27             | 17             | 44           | 59.3                     |
| 75 / 79                      |                     | 8              | 4              | 13           | 53.5                     | 0                   | 25             | 15             | 41           | 55.0                     | 34                  | 23             | 23             | 58           | 57.6                     |
| 70 / 74                      | 0                   | 14             | 9              | 23           | 51.8                     | 1                   | 33             | 22             | 55           | 53.0                     | 4                   | 37             | 28             | 69           | 56.2                     |
| 65 / 69                      | 1                   | 21             | 14             | 35           | 49.5                     | 6                   | 41             | 32             | 79           | 50.9                     | 12                  | 37             | 32             | 81           | 54.5                     |
| 60 / 64                      | 3                   | 30             | 21             | 54           | 47.3                     | 18                  | 40             | 39             | 97           | 48.8                     | 28                  | 31             | 37             | 96           | 52.7                     |
| 55 / 59                      | 8                   | 42             | 33             | 83           | 44.8                     | 34                  | 36             | 40             | 111          | 46.6                     | 45                  | 25             | 33             | 103          | 50.7                     |
| 50 / 54                      | 22                  | 50             | 43             | 115          | 42.5                     | 53                  | 27             | 40             | 120          | 44.0                     | 53                  | 14             | 27             | 95           | 48.5                     |
| 45 / 49                      | 43                  | 40             | 45             | 128          | 39.7                     | 60                  | 13             | 26             | 99           | 40.9                     | 52                  | 6              | 17             | 75           | 45.7                     |
| 40 / 44                      | 60                  | 22             | 37             | 119          | 36.6                     | 47                  | 4              | 13             | 64           | 37.1                     | 30                  | 2              | 6              | 37           | 41.9                     |
| 35 / 39                      | 52                  | 7              | 23             | 82           | 32.8                     | 22                  | 0              | 4              | 26           | 33.1                     | 13                  | 0              | 1              | 14           | 37.7                     |
| 30 / 34                      | 38                  | 1              | 7              | 46           | 28.8                     | 6                   |                | 1              | 7            | 28.9                     | 3                   |                | 0              | 3            | 33.8                     |
| 25 / 29                      | 12                  |                | 1              | 13           | 24.9                     | 1                   |                |                | 1            | 25.7                     | 0                   |                |                | 0            | 29.9                     |
| 20 / 24                      | 1                   |                |                | 1            | 20.7                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 15 / 19                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 10 / 14                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 5 / 9                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 0 / 4                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -5 / -1                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -10 / -6                     |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -15 / -11                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -20 / -16                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -25 / -21                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

**Caution:** This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

**MOUNTAIN HOME AFB ID**

WMO No. 726815

**Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)**

**Period of Record = 1967 to 1996**

| Temperature<br>Range<br>(°F) | July                |                |                |              |                          | August              |                |                |              |                          | September           |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|
|                              | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) |
|                              | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          |
| 110 / 114                    |                     | 0              | 0              | 0            | 69.3                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 105 / 109                    |                     | 1              | 1              | 1            | 66.5                     |                     | 1              | 0              | 1            | 65.8                     |                     |                |                |              |                          |
| 100 / 104                    |                     | 10             | 7              | 16           | 64.4                     |                     | 5              | 3              | 8            | 64.0                     |                     | 0              |                | 0            | 62.0                     |
| 95 / 99                      |                     | 26             | 20             | 46           | 63.0                     |                     | 19             | 13             | 32           | 62.2                     |                     | 2              | 1              | 3            | 61.1                     |
| 90 / 94                      |                     | 42             | 29             | 71           | 61.7                     |                     | 38             | 25             | 63           | 60.8                     |                     | 10             | 5              | 15           | 59.8                     |
| 85 / 89                      | 0                   | 46             | 31             | 76           | 60.3                     | 0                   | 42             | 27             | 69           | 59.5                     |                     | 20             | 12             | 32           | 58.2                     |
| 80 / 84                      | 4                   | 46             | 35             | 84           | 58.8                     | 2                   | 46             | 31             | 79           | 58.0                     |                     | 29             | 15             | 44           | 56.9                     |
| 75 / 79                      | 17                  | 37             | 38             | 91           | 57.3                     | 8                   | 37             | 36             | 82           | 56.5                     | 1                   | 35             | 21             | 57           | 55.1                     |
| 70 / 74                      | 37                  | 23             | 36             | 95           | 55.4                     | 27                  | 29             | 39             | 95           | 54.5                     | 3                   | 37             | 28             | 68           | 53.1                     |
| 65 / 69                      | 60                  | 12             | 26             | 98           | 53.5                     | 51                  | 16             | 33             | 100          | 52.3                     | 10                  | 37             | 35             | 81           | 51.1                     |
| 60 / 64                      | 63                  | 5              | 16             | 84           | 51.0                     | 66                  | 9              | 23             | 97           | 50.1                     | 29                  | 33             | 42             | 104          | 49.1                     |
| 55 / 59                      | 42                  | 1              | 7              | 50           | 48.1                     | 53                  | 4              | 12             | 69           | 47.6                     | 52                  | 21             | 34             | 107          | 46.7                     |
| 50 / 54                      | 20                  | 0              | 3              | 22           | 45.3                     | 28                  | 1              | 5              | 34           | 44.7                     | 63                  | 11             | 29             | 102          | 43.7                     |
| 45 / 49                      | 6                   | 0              | 0              | 6            | 42.3                     | 11                  | 0              | 1              | 12           | 41.4                     | 47                  | 4              | 13             | 64           | 40.3                     |
| 40 / 44                      | 1                   |                | 0              | 1            | 38.5                     | 2                   |                |                | 2            | 36.8                     | 24                  | 1              | 4              | 29           | 36.3                     |
| 35 / 39                      | 0                   |                |                | 0            | 34.3                     | 0                   |                |                | 0            | 33.5                     | 10                  |                | 1              | 11           | 32.2                     |
| 30 / 34                      |                     |                |                |              |                          |                     |                |                |              |                          | 2                   |                |                | 2            | 28.1                     |
| 25 / 29                      |                     |                |                |              |                          |                     |                |                |              |                          | 0                   |                |                | 0            | 25.5                     |
| 20 / 24                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 15 / 19                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 10 / 14                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 5 / 9                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 0 / 4                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -5 / -1                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -10 / -6                     |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -15 / -11                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -20 / -16                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -25 / -21                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

**Caution:** This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

**MOUNTAIN HOME AFB ID**

WMO No. 726815

**Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)**

**Period of Record = 1967 to 1996**

| Temperature<br>Range<br>(°F) | October             |                |                |              |                          | November            |                |                |              |                          | December            |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|
|                              | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) |
|                              | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          |
| 110 / 114                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 105 / 109                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 90 / 94                      |                     | 0              | 0              | 0            | 59.1                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 85 / 89                      |                     | 1              | 1              | 2            | 57.3                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 80 / 84                      |                     | 6              | 2              | 8            | 55.4                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 75 / 79                      | 0                   | 12             | 4              | 16           | 53.7                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 70 / 74                      | 0                   | 21             | 8              | 29           | 51.5                     |                     | 0              |                | 0            | 52.3                     |                     |                |                |              |                          |
| 65 / 69                      | 1                   | 31             | 14             | 46           | 49.5                     |                     | 2              | 0              | 3            | 49.6                     |                     |                |                |              |                          |
| 60 / 64                      | 2                   | 38             | 23             | 63           | 47.3                     | 0                   | 8              | 2              | 10           | 47.8                     |                     | 0              |                | 0            | 47.9                     |
| 55 / 59                      | 11                  | 43             | 36             | 90           | 45.2                     | 1                   | 18             | 7              | 26           | 45.8                     |                     | 1              | 0              | 2            | 45.3                     |
| 50 / 54                      | 29                  | 41             | 47             | 116          | 42.9                     | 6                   | 27             | 16             | 49           | 43.4                     | 1                   | 7              | 3              | 11           | 42.8                     |
| 45 / 49                      | 54                  | 31             | 49             | 133          | 40.2                     | 14                  | 45             | 30             | 89           | 40.4                     | 4                   | 19             | 9              | 31           | 40.4                     |
| 40 / 44                      | 60                  | 16             | 37             | 113          | 36.6                     | 32                  | 51             | 49             | 131          | 37.1                     | 14                  | 36             | 22             | 71           | 36.7                     |
| 35 / 39                      | 47                  | 5              | 18             | 71           | 32.6                     | 52                  | 40             | 51             | 144          | 33.4                     | 33                  | 49             | 43             | 125          | 33.0                     |
| 30 / 34                      | 31                  | 2              | 8              | 41           | 28.6                     | 57                  | 27             | 44             | 128          | 29.2                     | 46                  | 53             | 57             | 156          | 29.1                     |
| 25 / 29                      | 11                  | 0              | 2              | 13           | 24.6                     | 41                  | 12             | 23             | 76           | 24.7                     | 50                  | 37             | 50             | 137          | 25.0                     |
| 20 / 24                      | 2                   |                | 0              | 2            | 21.4                     | 20                  | 6              | 10             | 36           | 20.2                     | 44                  | 21             | 32             | 97           | 20.5                     |
| 15 / 19                      |                     |                |                |              |                          | 10                  | 3              | 5              | 18           | 15.7                     | 26                  | 9              | 14             | 49           | 16.0                     |
| 10 / 14                      |                     |                |                |              |                          | 3                   | 1              | 2              | 6            | 11.2                     | 13                  | 7              | 8              | 27           | 11.1                     |
| 5 / 9                        |                     |                |                |              |                          | 2                   | 1              | 1              | 3            | 6.2                      | 7                   | 4              | 5              | 16           | 6.1                      |
| 0 / 4                        |                     |                |                |              |                          | 1                   | 0              | 1              | 2            | 2.2                      | 5                   | 2              | 3              | 10           | 1.5                      |
| -5 / -1                      |                     |                |                |              |                          | 0                   | 0              | 0              | 1            | -2.1                     | 2                   | 1              | 1              | 4            | -2.9                     |
| -10 / -6                     |                     |                |                |              |                          |                     |                |                |              |                          | 1                   | 1              | 1              | 2            | -6.9                     |
| -15 / -11                    |                     |                |                |              |                          |                     |                |                |              |                          | 0                   | 0              | 0              | 1            | -11.7                    |
| -20 / -16                    |                     |                |                |              |                          |                     |                |                |              |                          | 1                   | 0              | 1              | 1            | -17.0                    |
| -25 / -21                    |                     |                |                |              |                          |                     |                |                |              |                          | 0                   |                |                | 0            | -20.4                    |

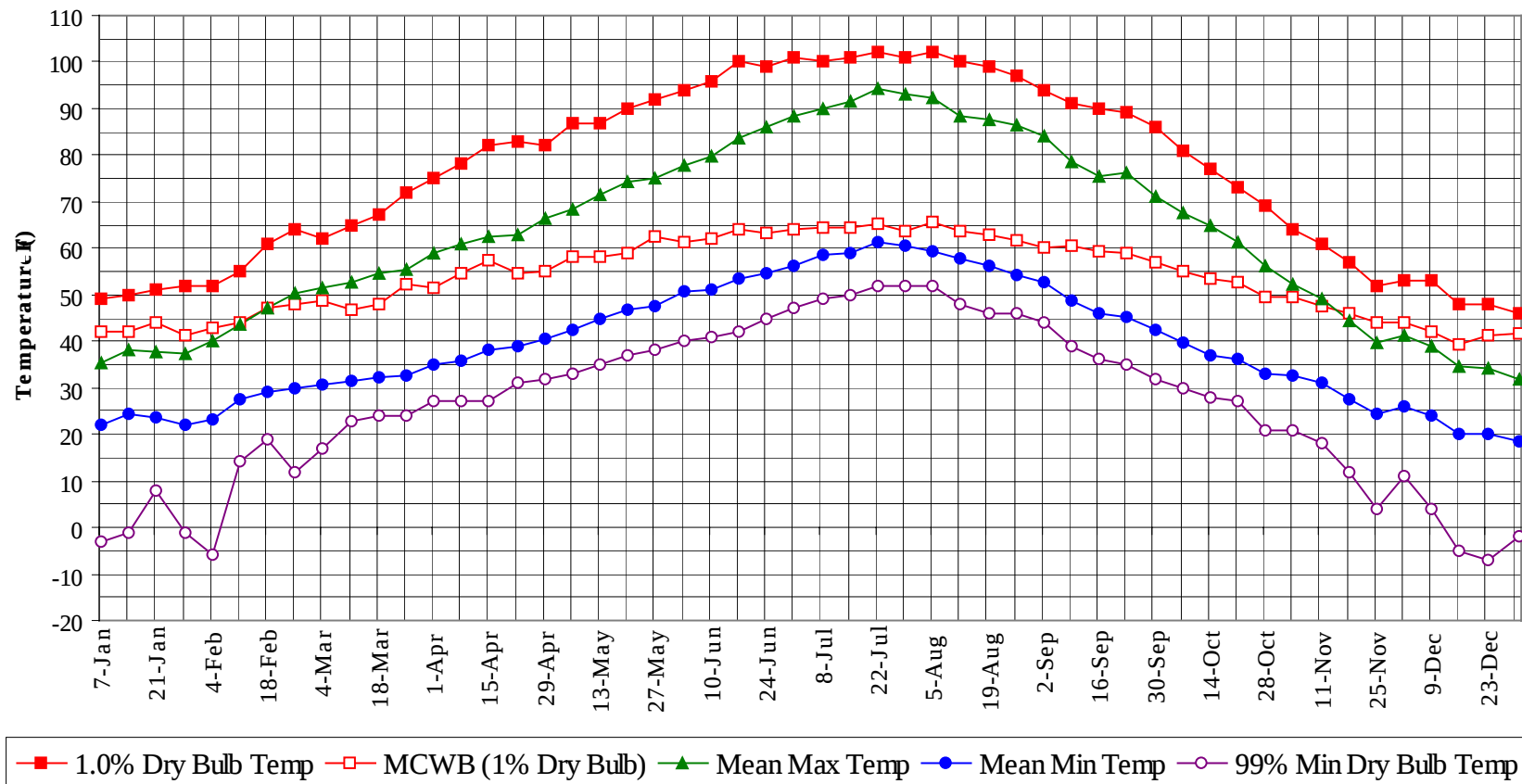
**Caution:** This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

**MOUNTAIN HOME AFB ID WMO No. 726815**  
**Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**  
**Period of Record = 1967 to 1996**

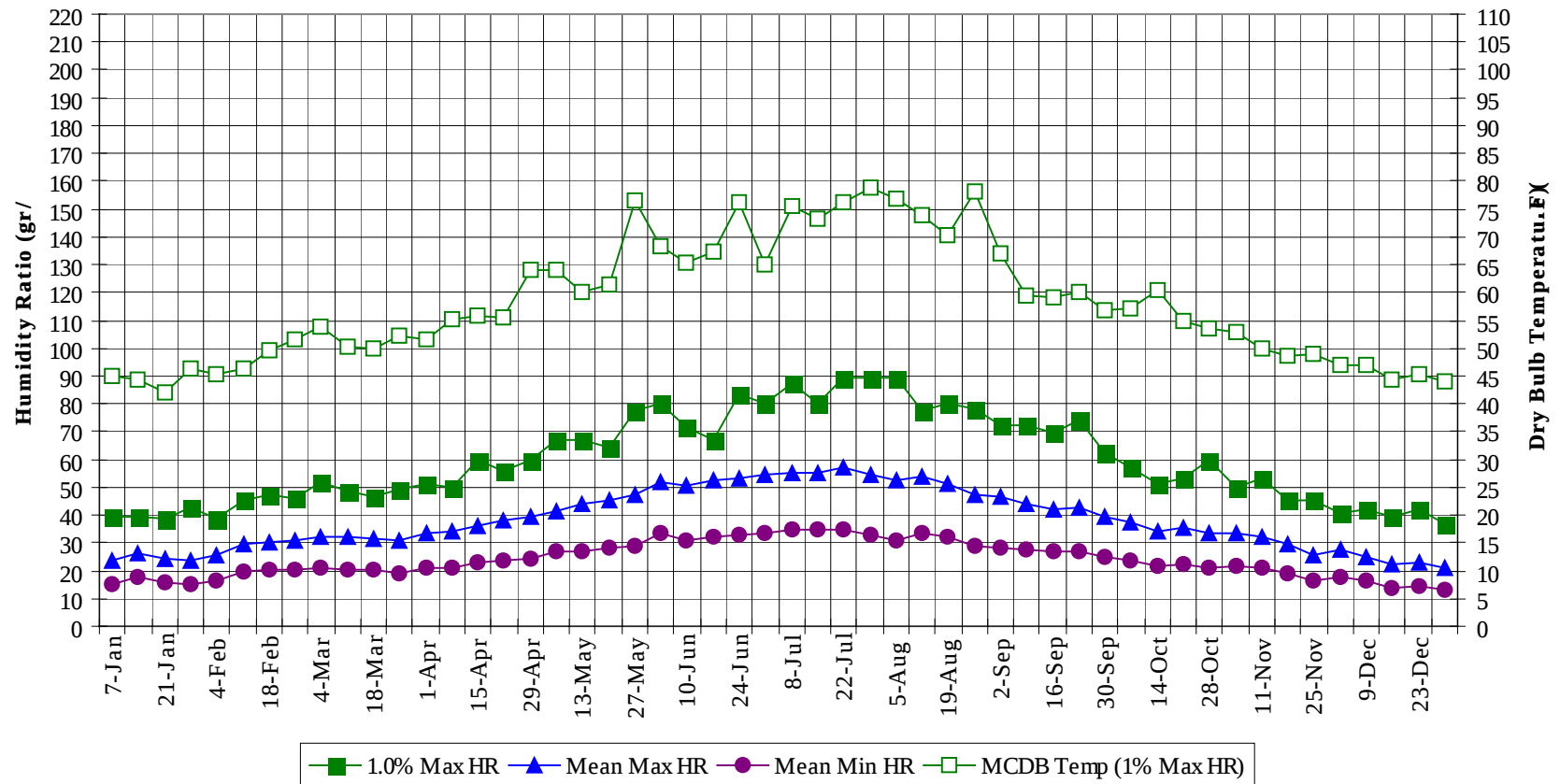
| Temperature<br>Range<br>(°F) | Annual Totals       |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|
|                              | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) |
|                              | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          |
| 110 / 114                    |                     | 0              | 0              | 0            | 69.3                     |
| 105 / 109                    |                     | 2              | 1              | 2            | 66.2                     |
| 100 / 104                    |                     | 17             | 12             | 29           | 64.3                     |
| 95 / 99                      |                     | 55             | 40             | 94           | 62.7                     |
| 90 / 94                      |                     | 111            | 72             | 183          | 61.1                     |
| 85 / 89                      | 0                   | 146            | 93             | 239          | 59.4                     |
| 80 / 84                      | 7                   | 181            | 118            | 306          | 57.8                     |
| 75 / 79                      | 29                  | 193            | 147            | 370          | 56.0                     |
| 70 / 74                      | 81                  | 197            | 173            | 451          | 53.9                     |
| 65 / 69                      | 156                 | 199            | 195            | 550          | 51.7                     |
| 60 / 64                      | 225                 | 204            | 208            | 638          | 49.3                     |
| 55 / 59                      | 255                 | 218            | 216            | 689          | 46.5                     |
| 50 / 54                      | 276                 | 243            | 243            | 762          | 43.5                     |
| 45 / 49                      | 291                 | 257            | 255            | 803          | 40.2                     |
| 40 / 44                      | 324                 | 249            | 280            | 853          | 36.8                     |
| 35 / 39                      | 355                 | 229            | 280            | 864          | 33.1                     |
| 30 / 34                      | 359                 | 181            | 256            | 796          | 29.2                     |
| 25 / 29                      | 251                 | 110            | 157            | 519          | 24.9                     |
| 20 / 24                      | 148                 | 61             | 83             | 293          | 20.5                     |
| 15 / 19                      | 78                  | 31             | 43             | 152          | 15.8                     |
| 10 / 14                      | 39                  | 18             | 22             | 79           | 11.0                     |
| 5 / 9                        | 20                  | 9              | 13             | 41           | 6.1                      |
| 0 / 4                        | 13                  | 5              | 7              | 25           | 1.4                      |
| -5 / -1                      | 6                   | 2              | 4              | 11           | -2.9                     |
| -10 / -6                     | 4                   | 1              | 1              | 6            | -7.2                     |
| -15 / -11                    | 1                   | 0              | 1              | 2            | -11.4                    |
| -20 / -16                    | 1                   | 0              | 1              | 1            | -17.0                    |
| -25 / -21                    | 0                   |                |                | 0            | -20.4                    |

**Caution:** This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

## Annual Summary of Temperatures



## Long Term Humidity and Dry Bulb Temperature Summary



**MOUNTAIN HOME AFB ID**

WMO No. 726815

**Long Term Dry Bulb Temperature and Humidity Summary**

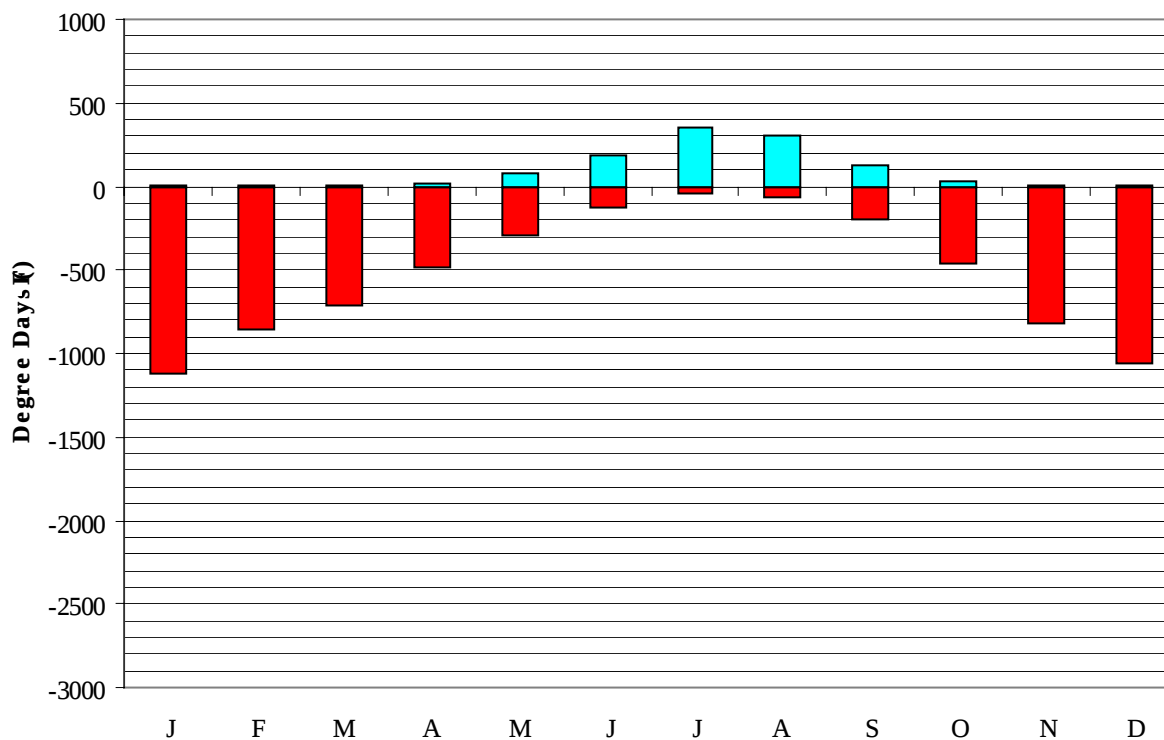
| Week<br>Ending | 1.0%<br>Temp (°F) | MCWB @<br>1% Temp (°F) | Mean Max<br>Temp (°F) | Mean Min<br>Temp (°F) | 99%<br>Temp (°F) | 1.0%<br>HR (gr/lb) | MCDB @<br>1% HR (°F) | Mean Max<br>HR (gr/lb) | Mean Min<br>HR (gr/lb) |
|----------------|-------------------|------------------------|-----------------------|-----------------------|------------------|--------------------|----------------------|------------------------|------------------------|
| 7-Jan          | 49.0              | 42.0                   | 35.4                  | 21.9                  | -3.0             | 39.2               | 44.9                 | 23.8                   | 15.4                   |
| 14-Jan         | 50.0              | 42.1                   | 38.3                  | 24.4                  | -1.0             | 39.2               | 44.3                 | 26.4                   | 17.6                   |
| 21-Jan         | 51.0              | 43.8                   | 37.7                  | 23.5                  | 8.0              | 38.5               | 41.9                 | 24.3                   | 15.7                   |
| 28-Jan         | 52.0              | 41.4                   | 37.4                  | 22.1                  | -1.0             | 42.7               | 46.3                 | 23.6                   | 15.2                   |
| 4-Feb          | 52.0              | 42.8                   | 40.2                  | 23.3                  | -6.0             | 38.5               | 45.4                 | 25.4                   | 16.3                   |
| 11-Feb         | 55.0              | 44.1                   | 43.7                  | 27.7                  | 14.0             | 45.5               | 46.3                 | 29.8                   | 19.6                   |
| 18-Feb         | 61.0              | 47.0                   | 47.2                  | 29.0                  | 19.0             | 47.6               | 49.5                 | 30.5                   | 20.1                   |
| 25-Feb         | 64.0              | 48.1                   | 50.5                  | 29.9                  | 12.0             | 46.2               | 51.5                 | 30.9                   | 20.4                   |
| 4-Mar          | 62.0              | 48.7                   | 51.3                  | 30.6                  | 17.0             | 51.8               | 53.9                 | 32.0                   | 20.8                   |
| 11-Mar         | 65.0              | 46.8                   | 52.6                  | 31.5                  | 23.0             | 48.3               | 50.1                 | 31.9                   | 20.5                   |
| 18-Mar         | 67.0              | 48.0                   | 54.7                  | 32.1                  | 24.0             | 46.9               | 49.9                 | 31.3                   | 20.1                   |
| 25-Mar         | 72.0              | 52.1                   | 55.6                  | 32.5                  | 24.0             | 49.0               | 52.1                 | 31.0                   | 19.2                   |
| 1-Apr          | 75.0              | 51.3                   | 59.1                  | 35.0                  | 27.0             | 51.1               | 51.4                 | 33.2                   | 20.7                   |
| 8-Apr          | 78.0              | 54.6                   | 60.7                  | 35.8                  | 27.0             | 49.7               | 55.3                 | 33.9                   | 21.0                   |
| 15-Apr         | 82.0              | 57.4                   | 62.7                  | 38.1                  | 27.0             | 59.5               | 55.8                 | 36.0                   | 22.8                   |
| 22-Apr         | 83.0              | 54.8                   | 62.7                  | 38.9                  | 31.0             | 56.0               | 55.5                 | 38.1                   | 23.7                   |
| 29-Apr         | 82.0              | 54.9                   | 66.4                  | 40.3                  | 32.0             | 59.5               | 64.0                 | 39.3                   | 24.5                   |
| 6-May          | 87.0              | 58.1                   | 68.2                  | 42.6                  | 33.0             | 67.2               | 64.1                 | 41.4                   | 26.6                   |
| 13-May         | 87.0              | 58.2                   | 71.6                  | 44.8                  | 35.0             | 67.2               | 60.2                 | 43.9                   | 27.1                   |
| 20-May         | 90.0              | 59.1                   | 74.1                  | 46.6                  | 37.0             | 64.4               | 61.5                 | 45.2                   | 28.5                   |
| 27-May         | 92.0              | 62.4                   | 75.2                  | 47.4                  | 38.0             | 77.7               | 76.4                 | 47.5                   | 28.7                   |
| 3-Jun          | 94.0              | 61.4                   | 77.8                  | 50.7                  | 40.0             | 79.8               | 68.4                 | 52.0                   | 33.4                   |
| 10-Jun         | 96.0              | 62.1                   | 79.7                  | 51.0                  | 41.0             | 71.4               | 65.5                 | 50.3                   | 30.9                   |
| 17-Jun         | 100.0             | 64.1                   | 83.6                  | 53.4                  | 42.0             | 67.2               | 67.2                 | 52.2                   | 32.3                   |
| 24-Jun         | 99.0              | 63.3                   | 85.9                  | 54.8                  | 45.0             | 83.3               | 76.1                 | 52.9                   | 33.0                   |
| 1-Jul          | 101.0             | 63.9                   | 88.3                  | 56.2                  | 47.0             | 79.8               | 64.9                 | 54.6                   | 33.3                   |
| 8-Jul          | 100.0             | 64.5                   | 90.1                  | 58.5                  | 49.0             | 87.5               | 75.6                 | 55.5                   | 34.6                   |
| 15-Jul         | 101.0             | 64.5                   | 91.6                  | 59.1                  | 50.0             | 79.8               | 73.3                 | 55.2                   | 34.6                   |
| 22-Jul         | 102.0             | 65.2                   | 94.4                  | 61.5                  | 52.0             | 89.6               | 76.3                 | 57.1                   | 34.9                   |
| 29-Jul         | 101.0             | 63.6                   | 93.2                  | 60.3                  | 52.0             | 89.6               | 78.7                 | 54.4                   | 32.7                   |
| 5-Aug          | 102.0             | 65.7                   | 92.5                  | 59.2                  | 52.0             | 89.6               | 76.8                 | 52.6                   | 31.1                   |
| 12-Aug         | 100.0             | 63.5                   | 88.5                  | 57.6                  | 48.0             | 77.7               | 73.8                 | 53.8                   | 33.4                   |
| 19-Aug         | 99.0              | 63.1                   | 87.4                  | 56.2                  | 46.0             | 79.8               | 70.3                 | 51.4                   | 32.4                   |
| 26-Aug         | 97.0              | 61.9                   | 86.6                  | 54.1                  | 46.0             | 78.4               | 78.0                 | 47.4                   | 28.6                   |
| 2-Sep          | 94.0              | 60.0                   | 84.1                  | 52.5                  | 44.0             | 72.1               | 67.1                 | 46.7                   | 28.3                   |
| 9-Sep          | 91.0              | 60.7                   | 78.6                  | 48.9                  | 39.0             | 72.1               | 59.5                 | 43.7                   | 27.7                   |
| 16-Sep         | 90.0              | 59.3                   | 75.3                  | 45.9                  | 36.0             | 69.3               | 59.2                 | 42.4                   | 27.1                   |
| 23-Sep         | 89.0              | 58.9                   | 76.3                  | 45.4                  | 35.0             | 74.2               | 60.1                 | 42.6                   | 27.2                   |
| 30-Sep         | 86.0              | 57.1                   | 71.2                  | 42.3                  | 32.0             | 62.3               | 56.8                 | 39.5                   | 24.7                   |
| 7-Oct          | 81.0              | 55.0                   | 67.4                  | 39.8                  | 30.0             | 57.4               | 57.1                 | 37.2                   | 23.4                   |
| 14-Oct         | 77.0              | 53.6                   | 65.0                  | 37.0                  | 28.0             | 51.1               | 60.5                 | 33.9                   | 21.8                   |
| 21-Oct         | 73.0              | 52.5                   | 61.5                  | 36.3                  | 27.0             | 53.2               | 54.8                 | 35.6                   | 22.6                   |
| 28-Oct         | 69.0              | 49.5                   | 56.1                  | 33.1                  | 21.0             | 59.5               | 53.6                 | 33.5                   | 21.1                   |
| 4-Nov          | 64.0              | 49.6                   | 52.4                  | 32.5                  | 21.0             | 49.7               | 53.0                 | 33.6                   | 21.9                   |
| 11-Nov         | 61.0              | 47.7                   | 49.1                  | 30.9                  | 18.0             | 53.2               | 49.9                 | 32.0                   | 21.2                   |
| 18-Nov         | 57.0              | 46.0                   | 44.4                  | 27.4                  | 12.0             | 45.5               | 48.7                 | 29.3                   | 18.9                   |
| 25-Nov         | 52.0              | 44.1                   | 39.5                  | 24.4                  | 4.0              | 45.5               | 48.8                 | 25.7                   | 16.2                   |
| 2-Dec          | 53.0              | 44.0                   | 41.4                  | 26.1                  | 11.0             | 40.6               | 47.0                 | 27.3                   | 17.8                   |
| 9-Dec          | 53.0              | 42.1                   | 39.0                  | 24.1                  | 4.0              | 42.0               | 46.8                 | 24.9                   | 16.3                   |
| 16-Dec         | 48.0              | 39.5                   | 34.6                  | 19.9                  | -5.0             | 39.2               | 44.3                 | 22.3                   | 14.0                   |
| 23-Dec         | 48.0              | 41.2                   | 34.2                  | 20.0                  | -7.0             | 42.0               | 45.4                 | 22.9                   | 14.6                   |
| 31-Dec         | 46.0              | 41.6                   | 31.9                  | 18.5                  | -2.0             | 37.1               | 44.1                 | 21.3                   | 13.5                   |

MOUNTAIN HOME AFB

ID

WMO No. 726815

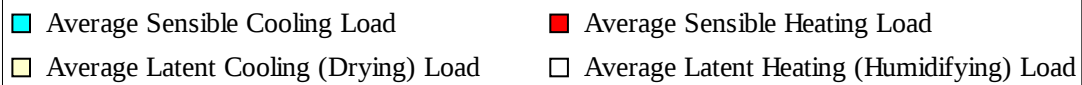
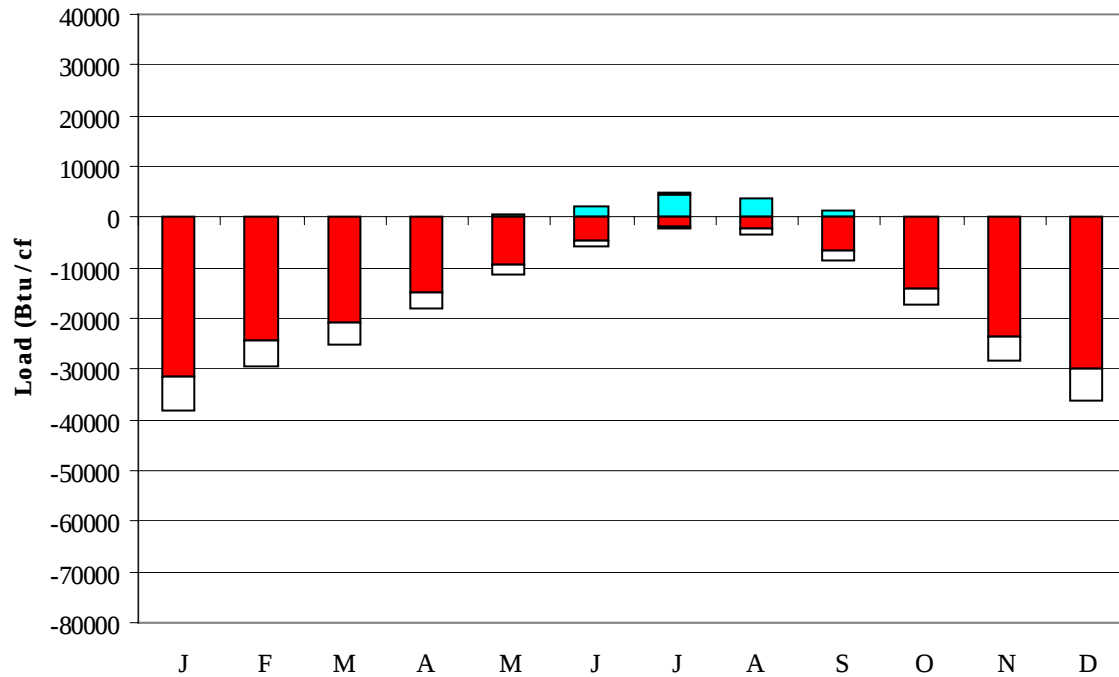
**Degree Days, Heating and Cooling**  
**(Base 65°F)**



Mean Cooling Degree Days Mean Heating Degree Days

|     | Mean Cooling<br>Degree Days (°F) | Mean Heating<br>Degree Days (°F) |
|-----|----------------------------------|----------------------------------|
| JAN | 0                                | 1121                             |
| FEB | 0                                | 859                              |
| MAR | 2                                | 714                              |
| APR | 20                               | 488                              |
| MAY | 74                               | 290                              |
| JUN | 186                              | 130                              |
| JUL | 351                              | 44                               |
| AUG | 301                              | 62                               |
| SEP | 126                              | 194                              |
| OCT | 24                               | 456                              |
| NOV | 0                                | 817                              |
| DEC | 0                                | 1063                             |
| ANN | 1083                             | 6238                             |

**Average Ventilation and Infiltration Loads**  
**(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)**



|     | Average Sensible Cooling Load (Btu/cfm) | Average Sensible Heating Load (Btu/cfm) | Average Latent Cooling Load (Btu/cfm) | Average Latent Heating Load (Btu/cfm) |
|-----|-----------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------|
| JAN | 0                                       | -31465                                  | 0                                     | -6832                                 |
| FEB | 0                                       | -24451                                  | 0                                     | -4898                                 |
| MAR | 1                                       | -20878                                  | 0                                     | -4362                                 |
| APR | 97                                      | -14773                                  | 0                                     | -3442                                 |
| MAY | 548                                     | -9315                                   | 0                                     | -2051                                 |
| JUN | 2024                                    | -4555                                   | 7                                     | -1053                                 |
| JUL | 4666                                    | -1790                                   | 28                                    | -604                                  |
| AUG | 3809                                    | -2432                                   | 20                                    | -1095                                 |
| SEP | 1185                                    | -6501                                   | 3                                     | -1971                                 |
| OCT | 105                                     | -13891                                  | 0                                     | -3257                                 |
| NOV | 0                                       | -23498                                  | 0                                     | -4718                                 |
| DEC | 0                                       | -29869                                  | 0                                     | -6441                                 |
| ANN | 12435                                   | -183418                                 | 58                                    | -40724                                |

## Average Annual Solar Radiation – Nearest Available Site

(Source: National Renewable Energy Laboratory, Golden CO, 1995)

City: BOISE  
 State: ID  
 WBAN No: 24131  
 Lat(N): 43.57  
 Long(W): 116.22  
 Elev(ft): 2868

Stn Type: Primary  
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1  
 Overhang: 0.636  
 Vert Gap: 0.33

| AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day), Percentage Uncertainty = 9 |         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Year |
|-------------------------------------------------------------------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| HORIZ                                                                         | Global  | 510  | 790  | 1200 | 1670 | 2070 | 2290 | 2410 | 2080 | 1620 | 1080 | 590  | 450  | 1400 |
|                                                                               | Std Dev | 50   | 91   | 105  | 149  | 133  | 141  | 109  | 127  | 117  | 79   | 62   | 49   | 37   |
|                                                                               | Minimum | 410  | 590  | 990  | 1340 | 1730 | 1870 | 2170 | 1780 | 1350 | 920  | 450  | 380  | 1340 |
|                                                                               | Maximum | 630  | 950  | 1400 | 1930 | 2290 | 2540 | 2620 | 2290 | 1830 | 1240 | 720  | 560  | 1460 |
|                                                                               | Diffuse | 310  | 390  | 530  | 660  | 700  | 680  | 530  | 500  | 410  | 350  | 300  | 260  | 470  |
| Clear Day                                                                     | Global  | 780  | 1130 | 1660 | 2230 | 2610 | 2770 | 2680 | 2350 | 1840 | 1280 | 840  | 670  | 1740 |
| NORTH                                                                         | Global  | 180  | 240  | 330  | 440  | 580  | 680  | 640  | 480  | 340  | 260  | 180  | 150  | 380  |
|                                                                               | Diffuse | 180  | 240  | 330  | 430  | 490  | 520  | 480  | 430  | 340  | 260  | 180  | 150  | 340  |
| Clear Day                                                                     | Global  | 150  | 210  | 290  | 400  | 600  | 730  | 660  | 470  | 320  | 230  | 160  | 140  | 360  |
| EAST                                                                          | Global  | 340  | 530  | 790  | 1050 | 1220 | 1340 | 1420 | 1270 | 1060 | 740  | 410  | 310  | 880  |
|                                                                               | Diffuse | 220  | 300  | 410  | 530  | 590  | 610  | 570  | 520  | 420  | 330  | 220  | 190  | 410  |
| Clear Day                                                                     | Global  | 650  | 880  | 1170 | 1440 | 1590 | 1640 | 1600 | 1480 | 1250 | 950  | 680  | 570  | 1160 |
| SOUTH                                                                         | Global  | 820  | 1060 | 1180 | 1150 | 1020 | 950  | 1040 | 1220 | 1440 | 1420 | 950  | 800  | 1090 |
|                                                                               | Diffuse | 330  | 400  | 490  | 560  | 570  | 560  | 520  | 510  | 460  | 410  | 320  | 290  | 450  |
| Clear Day                                                                     | Global  | 1920 | 2030 | 1930 | 1560 | 1220 | 1050 | 1110 | 1400 | 1770 | 1990 | 1920 | 1840 | 1640 |
| WEST                                                                          | Global  | 350  | 530  | 770  | 1010 | 1210 | 1290 | 1410 | 1270 | 1060 | 740  | 410  | 320  | 870  |
|                                                                               | Diffuse | 220  | 300  | 420  | 540  | 600  | 620  | 570  | 520  | 430  | 330  | 230  | 190  | 410  |
| Clear Day                                                                     | Global  | 650  | 880  | 1170 | 1440 | 1590 | 1640 | 1600 | 1480 | 1250 | 950  | 680  | 570  | 1160 |

## Average Annual Solar Heat and Illumination – Nearest Available Site

(Source: National Renewable Energy Laboratory, Golden CO, 1995)

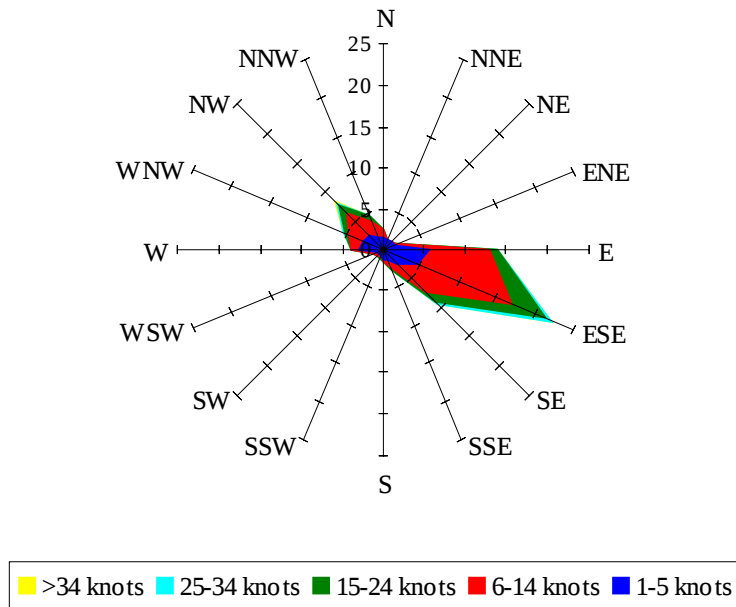
| AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9 |          | Jan | Feb | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov | Dec | Year |
|-----------------------------------------------------------------------------------------------------|----------|-----|-----|-----|------|------|------|------|------|------|------|-----|-----|------|
| HORIZ                                                                                               | Unshaded | 330 | 530 | 840 | 1200 | 1500 | 1670 | 1760 | 1510 | 1150 | 730  | 380 | 280 | 990  |
| NORTH                                                                                               | Unshaded | 120 | 170 | 230 | 300  | 370  | 430  | 400  | 310  | 240  | 180  | 130 | 110 | 250  |
|                                                                                                     | Shaded   | 100 | 140 | 200 | 260  | 330  | 380  | 360  | 280  | 210  | 160  | 110 | 89  | 220  |
| EAST                                                                                                | Unshaded | 240 | 370 | 560 | 750  | 870  | 960  | 1020 | 910  | 760  | 530  | 280 | 210 | 620  |
|                                                                                                     | Shaded   | 200 | 320 | 480 | 630  | 720  | 790  | 840  | 760  | 640  | 460  | 240 | 180 | 520  |
| SOUTH                                                                                               | Unshaded | 610 | 780 | 830 | 760  | 630  | 570  | 610  | 770  | 990  | 1030 | 710 | 610 | 740  |
|                                                                                                     | Shaded   | 590 | 710 | 630 | 450  | 350  | 340  | 330  | 380  | 650  | 890  | 680 | 590 | 550  |
| WEST                                                                                                | Unshaded | 240 | 370 | 550 | 720  | 870  | 920  | 1010 | 910  | 760  | 530  | 280 | 220 | 620  |
|                                                                                                     | Shaded   | 210 | 320 | 470 | 610  | 720  | 750  | 830  | 750  | 650  | 460  | 250 | 190 | 520  |

| AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9 |          | March |      |     |     |     | June |      |     |     |     |
|------------------------------------------------------------------------------------------------------------------|----------|-------|------|-----|-----|-----|------|------|-----|-----|-----|
|                                                                                                                  |          | 9am   | 11am | 1pm | 3pm | 5pm | 9am  | 11am | 1pm | 3pm | 5pm |
| HORIZ.                                                                                                           | M.Clear  | 24    | 60   | 77  | 69  | 39  | 37   | 75   | 98  | 101 | 82  |
|                                                                                                                  | M.Cloudy | 15    | 39   | 51  | 46  | 25  | 25   | 55   | 75  | 75  | 60  |
| NORTH                                                                                                            | M.Clear  | 7     | 12   | 14  | 13  | 9   | 22   | 14   | 16  | 16  | 15  |
|                                                                                                                  | M.Cloudy | 6     | 13   | 16  | 15  | 9   | 14   | 16   | 18  | 18  | 17  |
| EAST                                                                                                             | M.Clear  | 69    | 69   | 25  | 13  | 9   | 79   | 82   | 48  | 16  | 15  |
|                                                                                                                  | M.Cloudy | 24    | 36   | 21  | 15  | 9   | 38   | 53   | 39  | 18  | 17  |
| SOUTH                                                                                                            | M.Clear  | 27    | 69   | 88  | 78  | 45  | 9    | 27   | 50  | 52  | 34  |
|                                                                                                                  | M.Cloudy | 12    | 35   | 48  | 43  | 22  | 9    | 23   | 40  | 41  | 28  |
| WEST                                                                                                             | M.Clear  | 7     | 12   | 14  | 54  | 77  | 9    | 14   | 16  | 35  | 76  |
|                                                                                                                  | M.Cloudy | 6     | 13   | 16  | 32  | 33  | 9    | 16   | 18  | 31  | 51  |
| M.Clear                                                                                                          | (% hrs)  | 29    | 29   | 25  | 23  | 27  | 53   | 52   | 50  | 49  | 45  |

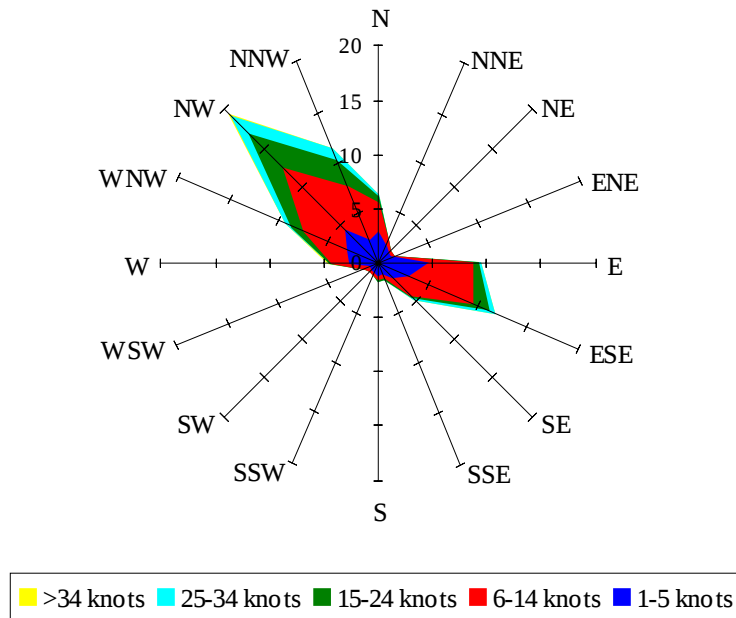
|         |          | Sept |      |     |     |     | Dec |      |     |     |     |
|---------|----------|------|------|-----|-----|-----|-----|------|-----|-----|-----|
|         |          | 9am  | 11am | 1pm | 3pm | 5pm | 9am | 11am | 1pm | 3pm | 5pm |
| HORIZ.  | M.Clear  | 15   | 54   | 80  | 82  | 60  | 3   | 28   | 41  | 31  | 6   |
|         | M.Cloudy | 10   | 37   | 56  | 58  | 42  | 2   | 16   | 25  | 19  | 4   |
| NORTH   | M.Clear  | 5    | 11   | 14  | 14  | 12  | 2   | 8    | 10  | 8   | 3   |
|         | M.Cloudy | 4    | 12   | 16  | 16  | 13  | 1   | 7    | 10  | 8   | 2   |
| EAST    | M.Clear  | 56   | 80   | 45  | 14  | 12  | 13  | 45   | 13  | 8   | 3   |
|         | M.Cloudy | 19   | 43   | 32  | 16  | 13  | 3   | 15   | 11  | 8   | 2   |
| SOUTH   | M.Clear  | 11   | 50   | 78  | 80  | 56  | 10  | 69   | 89  | 73  | 21  |
|         | M.Cloudy | 6    | 30   | 50  | 53  | 35  | 3   | 20   | 31  | 24  | 6   |
| WEST    | M.Clear  | 5    | 11   | 14  | 37  | 76  | 2   | 8    | 10  | 40  | 25  |
|         | M.Cloudy | 4    | 12   | 16  | 29  | 45  | 1   | 7    | 10  | 16  | 7   |
| M.Clear | (% hrs)  | 61   | 63   | 62  | 61  | 61  | 20  | 22   | 22  | 23  | 24  |

# **Wind Summary - December, January, and February** **Labels of Percent Frequency on North Axis**



Percent Calm = 18.97

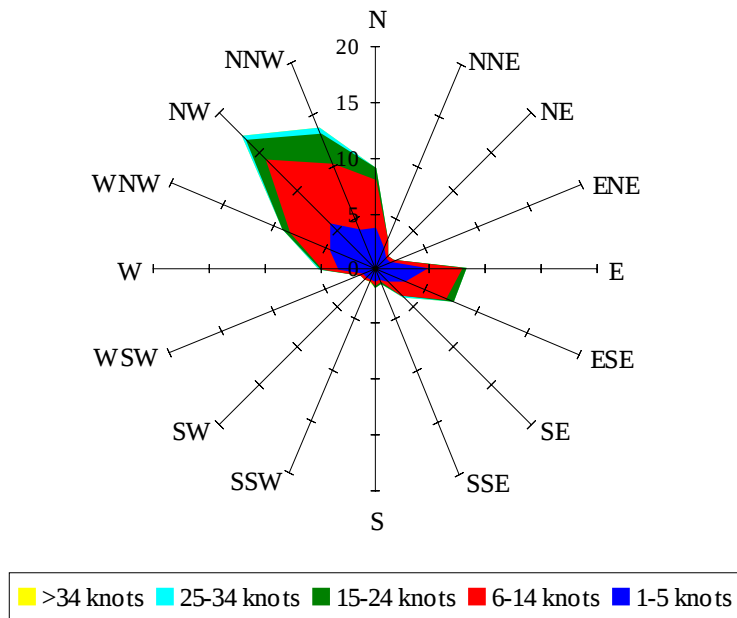
# **Wind Summary - March, April, and May** **Labels of Percent Frequency on North Axis**



Percent Calm = 12.13

### Wind Summary - June, July, and August

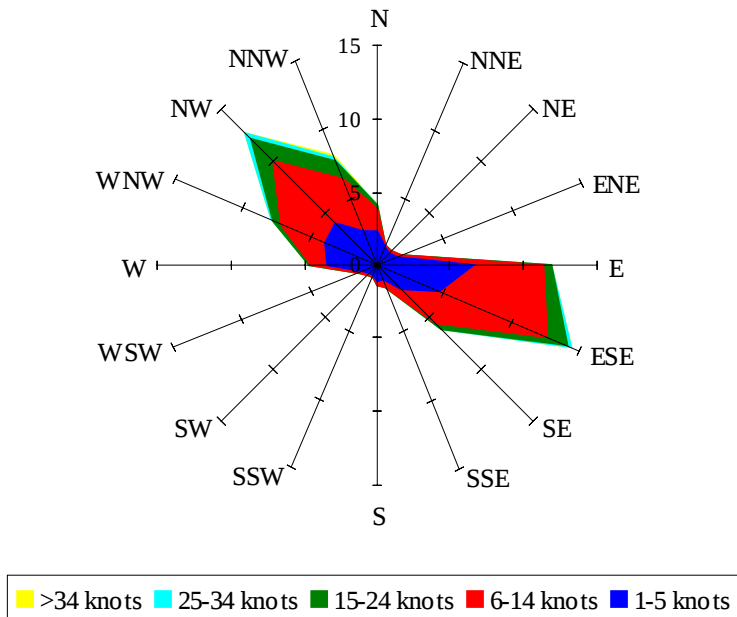
Labels of Percent Frequency on North Axis



Percent Calm = 13.62

### Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 19.27