

|                                 |           |                                    |
|---------------------------------|-----------|------------------------------------|
| <b>KING SALMON</b>              | <b>AK</b> |                                    |
| Latitude = 58.68 N              |           | WMO No. 703260                     |
| Longitude = 156.60 W            |           | Elevation = 49 feet                |
| Period of Record = 1967 to 1996 |           | Average Pressure = 29.64 inches Hg |

### Design Criteria Data

|                                                  | Design Value      | 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                          | 78                | 61                               | 55                      | 10.4                   | S                           |
| 0.4% Occurrence                                  | 71                | 58                               | 51                      | 11.5                   | W                           |
| 1.0% Occurrence                                  | 67                | 56                               | 50                      | 11.1                   | W                           |
| 2.0% Occurrence                                  | 64                | 55                               | 49                      | 11.5                   | S                           |
| Mean Daily Range                                 | 15                | -                                | -                       | -                      | -                           |
| 97.5% Occurrence                                 | -12               | -12                              | 2                       | 8.4                    | N                           |
| 99.0% Occurrence                                 | -19               | -19                              | 1                       | 7.2                    | N                           |
| 99.6% Occurrence                                 | -25               | -25                              | 1                       | 5.5                    | N                           |
| Median of Extreme Lows                           | -30               | -30                              | 1                       | 4.0                    | N                           |
|                                                  | Design Value      | 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                          | 63                | 72                               | 68                      | 11.9                   | S                           |
| 0.4% Occurrence                                  | 60                | 68                               | 62                      | 10.8                   | W                           |
| 1.0% Occurrence                                  | 58                | 65                               | 59                      | 10.9                   | S                           |
| 2.0% Occurrence                                  | 56                | 62                               | 56                      | 10.9                   | S                           |
|                                                  | Design Value      | 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                          | 74                | 65                               | 0.50                    | 10.0                   | S                           |
| 0.4% Occurrence                                  | 67                | 62                               | 0.45                    | 11.4                   | S                           |
| 1.0% Occurrence                                  | 62                | 60                               | 0.42                    | 10.6                   | S                           |
| 2.0% Occurrence                                  | 60                | 58                               | 0.40                    | 9.8                    | S                           |
| <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      |
|                                                  |                   | 0                                | 1                       | 0                      | 1                           |

### 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 |
|-----------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 3                                                   | 0.6                                          | 120                                                                | 0.0 + 0.0                                                                               |
| Ground Water<br>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>(#)                                             |
| 36.9                                                | N/A                                          | N/A                                                                | 79                                                                                      |

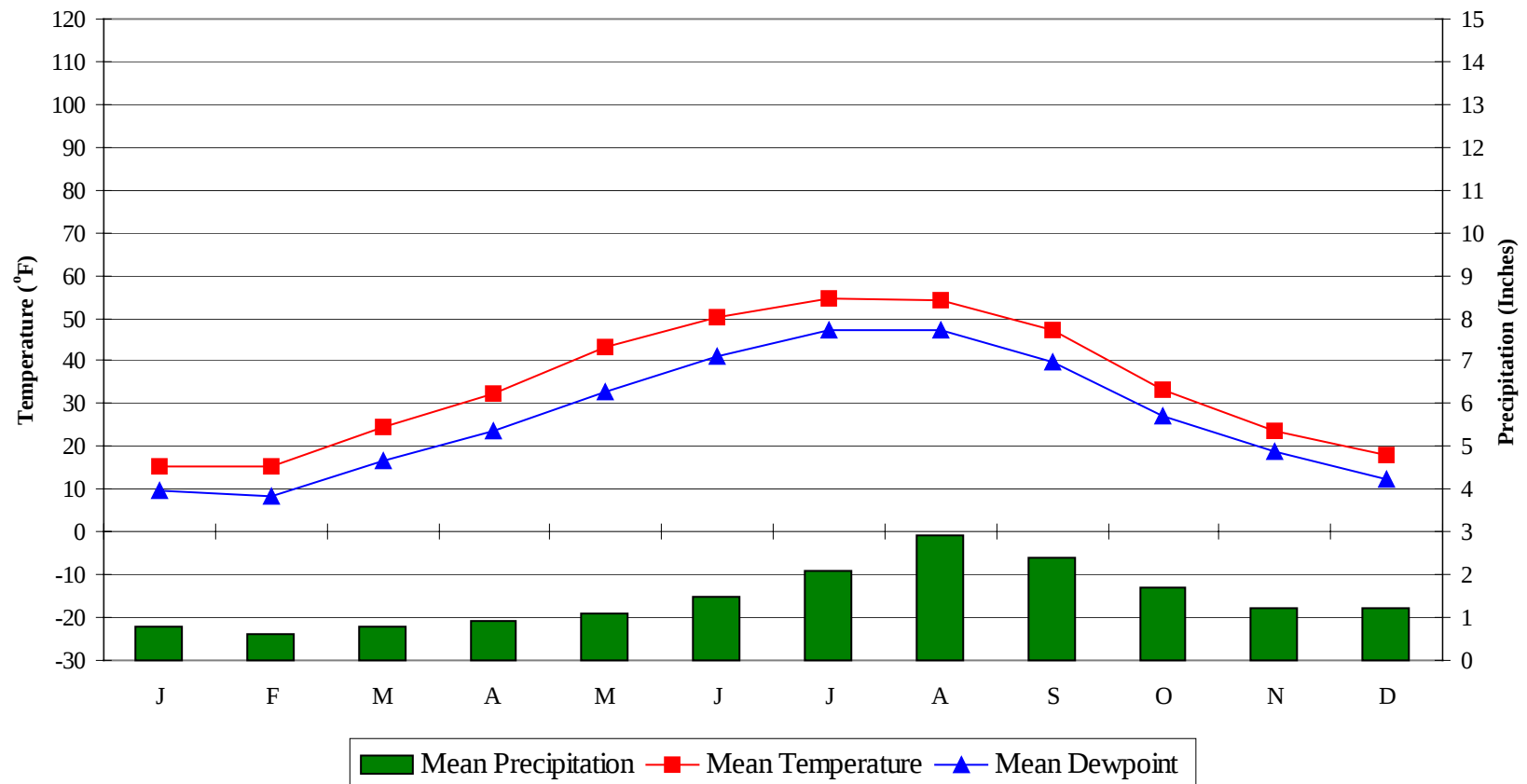
\*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

KING SALMON

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### Average Annual Climate

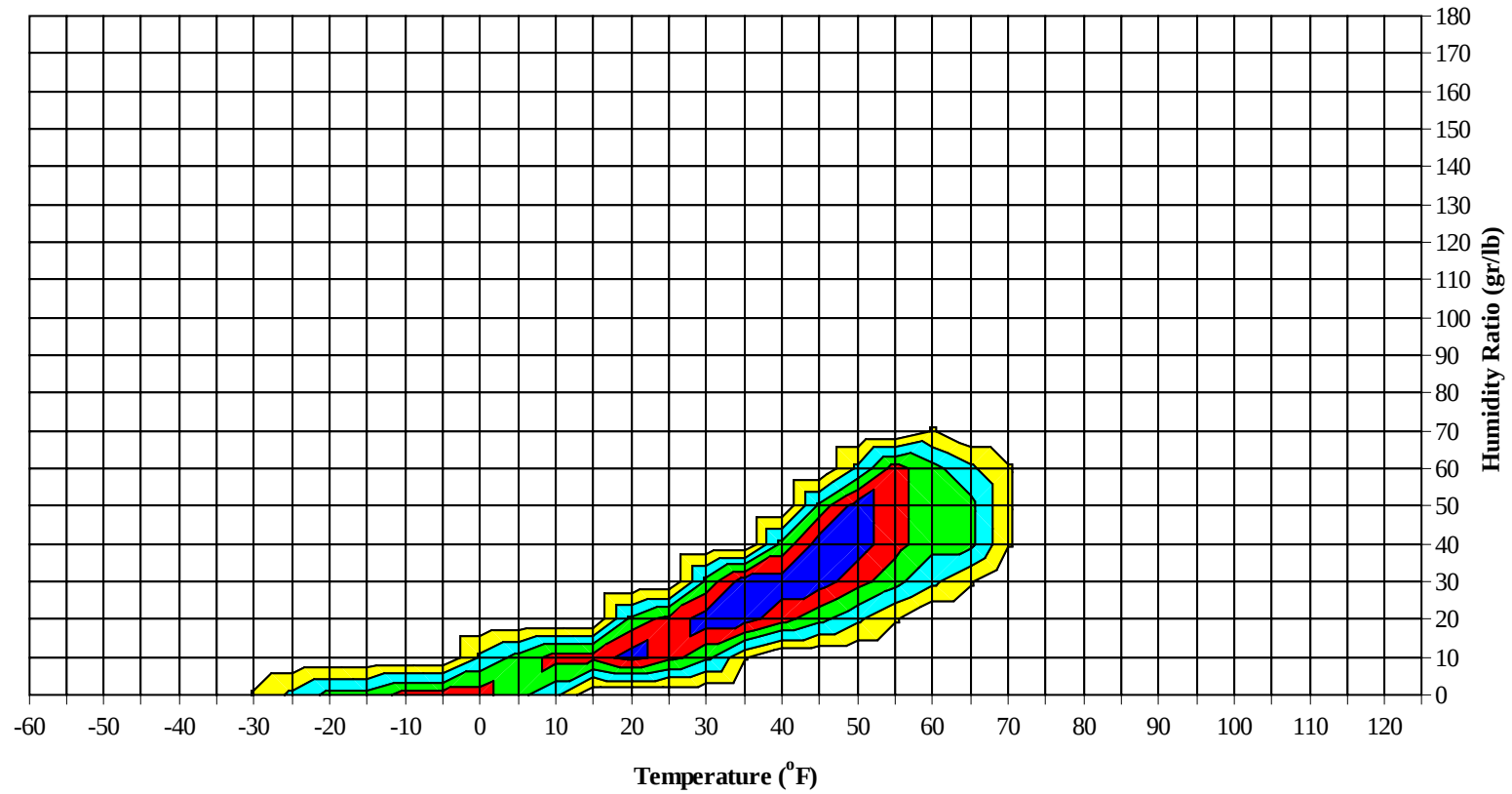


KING SALMON

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### Long Term Psychrometric Summary



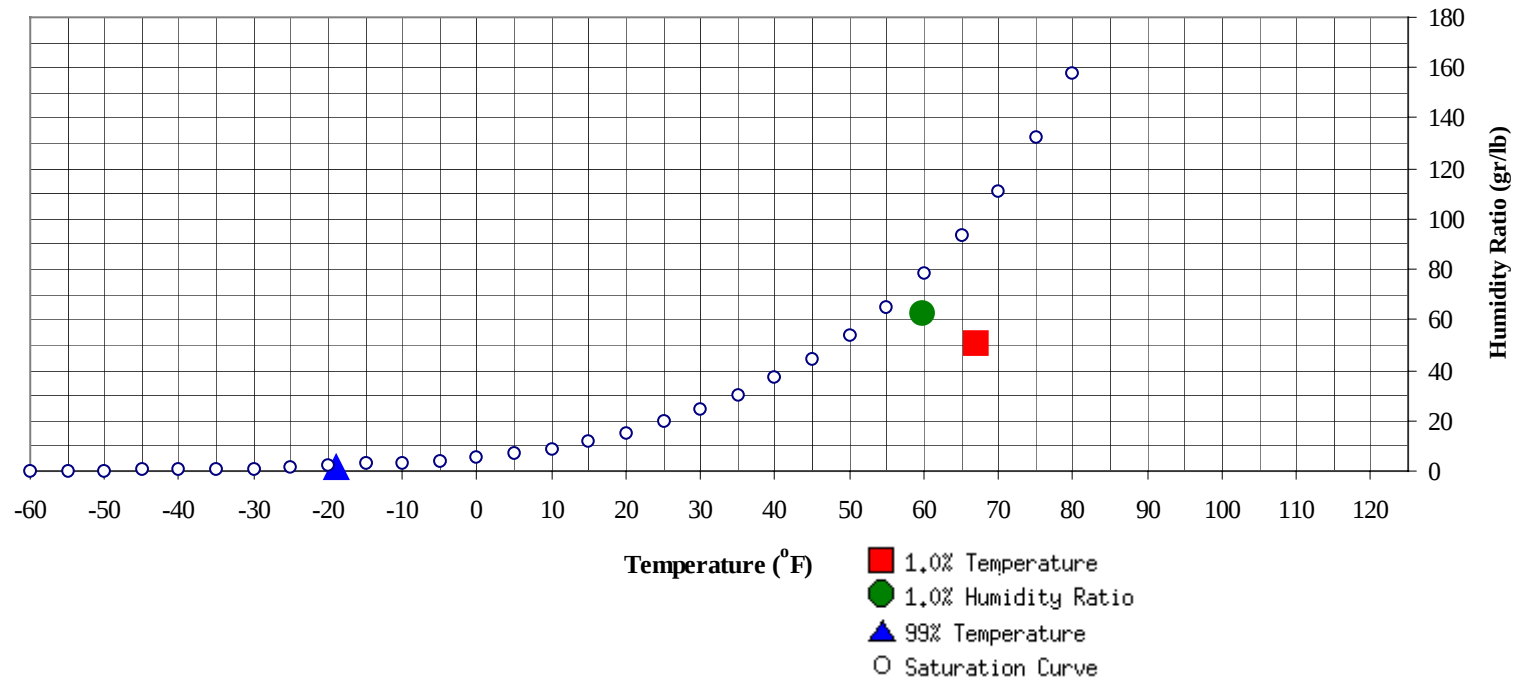
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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## Psychrometric Summary of Peak Design Values



| 99% Dry Bulb | (°F) | MCHR<br>(gr/lb) | Enthalpy<br>(btu/lb) | 1.0% Humidity<br>Ratio | (gr/lb) | MCDB<br>(°F) | MCWB<br>(°F) | MC Dewpt<br>(°F) | Enthalpy<br>(btu/lb) |
|--------------|------|-----------------|----------------------|------------------------|---------|--------------|--------------|------------------|----------------------|
|              | -19  | 1.4             | -4.3                 |                        | 62.3    | 59.7         | 56.4         | 54               | 24.0                 |

| 1.0% Dry Bulb | (°F) | MCHR<br>(gr/lb) | MCWB<br>(°F) | Enthalpy<br>(btu/lb) |
|---------------|------|-----------------|--------------|----------------------|
|               | 67   | 50.5            | 56.3         | 23.9                 |

KING SALMON

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**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 |              |                          |
| 80 / 84                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 75 / 79                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 70 / 74                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 65 / 69                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 60 / 64                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 55 / 59                      |                     |                |                |              |                          |                     | 0              |                | 0            | 43.0                     |                     | 0              |                | 0            | 42.0                     |
| 50 / 54                      |                     |                |                |              |                          | 0                   | 1              | 0              | 1            | 41.5                     |                     | 1              | 0              | 1            | 42.8                     |
| 45 / 49                      | 0                   | 1              | 0              | 1            | 40.9                     | 1                   | 3              | 2              | 6            | 39.8                     | 0                   | 8              | 3              | 11           | 39.2                     |
| 40 / 44                      | 9                   | 13             | 11             | 33           | 37.0                     | 8                   | 15             | 11             | 34           | 37.1                     | 6                   | 30             | 19             | 56           | 36.7                     |
| 35 / 39                      | 35                  | 37             | 36             | 108          | 34.1                     | 28                  | 34             | 33             | 94           | 33.8                     | 36                  | 47             | 53             | 136          | 33.6                     |
| 30 / 34                      | 34                  | 33             | 35             | 102          | 30.5                     | 28                  | 28             | 32             | 87           | 30.1                     | 50                  | 49             | 56             | 155          | 29.9                     |
| 25 / 29                      | 26                  | 25             | 26             | 76           | 25.8                     | 18                  | 19             | 17             | 54           | 25.5                     | 36                  | 28             | 30             | 94           | 25.1                     |
| 20 / 24                      | 19                  | 20             | 20             | 59           | 21.1                     | 14                  | 16             | 15             | 45           | 20.6                     | 27                  | 20             | 21             | 67           | 20.4                     |
| 15 / 19                      | 18                  | 17             | 18             | 53           | 16.5                     | 14                  | 15             | 16             | 45           | 15.9                     | 20                  | 17             | 17             | 54           | 15.7                     |
| 10 / 14                      | 14                  | 15             | 14             | 43           | 11.0                     | 14                  | 14             | 14             | 42           | 10.8                     | 12                  | 12             | 13             | 37           | 10.6                     |
| 5 / 9                        | 14                  | 15             | 15             | 44           | 6.3                      | 15                  | 15             | 16             | 46           | 6.0                      | 17                  | 11             | 11             | 39           | 5.9                      |
| 0 / 4                        | 12                  | 12             | 14             | 38           | 1.1                      | 15                  | 16             | 17             | 48           | 0.9                      | 12                  | 10             | 9              | 31           | 1.2                      |
| -5 / -1                      | 9                   | 10             | 12             | 31           | -3.1                     | 13                  | 14             | 13             | 40           | -3.3                     | 8                   | 6              | 5              | 19           | -3.2                     |
| -10 / -6                     | 13                  | 16             | 12             | 41           | -7.8                     | 17                  | 17             | 15             | 49           | -7.6                     | 8                   | 6              | 6              | 20           | -7.6                     |
| -15 / -11                    | 12                  | 14             | 13             | 39           | -12.6                    | 13                  | 11             | 12             | 36           | -12.4                    | 7                   | 3              | 3              | 13           | -12.1                    |
| -20 / -16                    | 13                  | 11             | 12             | 36           | -17.2                    | 12                  | 6              | 7              | 25           | -16.8                    | 4                   | 1              | 1              | 6            | -17.0                    |
| -25 / -21                    | 8                   | 6              | 7              | 21           | -21.9                    | 6                   | 2              | 3              | 11           | -21.9                    | 3                   | 0              | 1              | 4            | -22.1                    |
| -30 / -26                    | 6                   | 3              | 3              | 12           | -26.7                    | 3                   | 1              | 1              | 5            | -26.7                    | 1                   | 0              | 0              | 1            | -26.5                    |
| -35 / -31                    | 2                   | 1              | 2              | 5            | -31.4                    | 1                   | 0              | 0              | 1            | -31.4                    | 0                   | 0              |                | 0            | -30.9                    |
| -40 / -36                    | 1                   | 1              | 1              | 3            | -37.0                    | 0                   | 0              | 0              | 0            | -35.7                    |                     |                |                |              |                          |
| -45 / -41                    | 1                   | 0              | 0              | 1            |                          | 0                   | 0              |                | 0            |                          |                     |                |                |              |                          |
| -50 / -46                    | 0                   | 0              |                | 0            |                          |                     |                |                |              |                          |                     |                |                |              |                          |

**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.

KING SALMON

AK

WMO No. 703260

**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 |              |                          |
| 80 / 84                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 75 / 79                      |                     |                |                |              |                          |                     | 0              | 0              | 0            | 57.1                     |                     | 1              | 0              | 1            | 57.0                     |
| 70 / 74                      |                     |                |                |              |                          |                     | 2              | 1              | 3            | 53.7                     |                     | 3              | 3              | 6            | 55.8                     |
| 65 / 69                      |                     |                |                |              |                          |                     | 3              | 3              | 6            | 51.2                     |                     | 12             | 8              | 20           | 54.2                     |
| 60 / 64                      |                     |                |                |              |                          | 0                   | 9              | 5              | 14           | 49.1                     | 0                   | 29             | 22             | 51           | 52.0                     |
| 55 / 59                      |                     | 1              | 1              | 2            | 45.3                     | 0                   | 24             | 15             | 39           | 46.7                     | 2                   | 60             | 48             | 111          | 49.4                     |
| 50 / 54                      |                     | 11             | 5              | 16           | 42.7                     | 2                   | 55             | 40             | 97           | 44.2                     | 25                  | 72             | 73             | 170          | 47.0                     |
| 45 / 49                      | 1                   | 32             | 18             | 51           | 39.6                     | 19                  | 67             | 63             | 150          | 41.4                     | 95                  | 47             | 63             | 205          | 44.1                     |
| 40 / 44                      | 8                   | 50             | 43             | 102          | 37.0                     | 62                  | 52             | 67             | 181          | 38.5                     | 80                  | 13             | 19             | 112          | 40.7                     |
| 35 / 39                      | 45                  | 55             | 65             | 164          | 33.6                     | 88                  | 28             | 39             | 155          | 34.8                     | 33                  | 3              | 4              | 40           | 36.5                     |
| 30 / 34                      | 78                  | 41             | 52             | 172          | 30.0                     | 62                  | 8              | 12             | 82           | 30.8                     | 4                   | 0              | 0              | 4            | 32.7                     |
| 25 / 29                      | 46                  | 19             | 23             | 88           | 25.2                     | 12                  | 1              | 2              | 15           | 26.0                     | 0                   |                |                | 0            | 29.0                     |
| 20 / 24                      | 22                  | 12             | 13             | 47           | 20.3                     | 2                   | 0              | 0              | 2            | 21.0                     |                     |                |                |              |                          |
| 15 / 19                      | 12                  | 10             | 9              | 31           | 15.3                     | 0                   |                |                | 0            | 17.2                     |                     |                |                |              |                          |
| 10 / 14                      | 10                  | 5              | 5              | 20           | 10.6                     | 0                   |                |                | 0            | 14.0                     |                     |                |                |              |                          |
| 5 / 9                        | 9                   | 3              | 3              | 15           | 5.9                      |                     |                |                |              |                          |                     |                |                |              |                          |
| 0 / 4                        | 6                   | 1              | 1              | 8            | 1.4                      |                     |                |                |              |                          |                     |                |                |              |                          |
| -5 / -1                      | 2                   | 0              | 1              | 3            | -2.9                     |                     |                |                |              |                          |                     |                |                |              |                          |
| -10 / -6                     | 1                   | 0              | 0              | 1            | -7.5                     |                     |                |                |              |                          |                     |                |                |              |                          |
| -15 / -11                    | 0                   |                |                | 0            | -11.1                    |                     |                |                |              |                          |                     |                |                |              |                          |
| -20 / -16                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -25 / -21                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -30 / -26                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -35 / -31                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -40 / -36                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -45 / -41                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -50 / -46                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

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KING SALMON

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WMO No. 703260

**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 |              |                          |
| 80 / 84                      |                     | 0              | 0              | 0            | 61.9                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 75 / 79                      |                     | 3              | 3              | 6            | 61.4                     |                     | 2              | 1              | 3            | 62.0                     |                     |                |                |              |                          |
| 70 / 74                      | 0                   | 11             | 9              | 20           | 59.0                     |                     | 8              | 6              | 14           | 59.2                     |                     | 0              | 0              | 0            | 59.9                     |
| 65 / 69                      | 0                   | 27             | 18             | 45           | 56.8                     | 0                   | 20             | 12             | 32           | 57.1                     |                     | 1              | 1              | 2            | 56.8                     |
| 60 / 64                      | 1                   | 51             | 43             | 95           | 54.4                     | 3                   | 47             | 37             | 87           | 55.0                     | 1                   | 12             | 6              | 19           | 53.2                     |
| 55 / 59                      | 18                  | 74             | 78             | 170          | 52.3                     | 26                  | 82             | 78             | 186          | 52.5                     | 5                   | 46             | 27             | 78           | 50.6                     |
| 50 / 54                      | 105                 | 64             | 73             | 242          | 49.5                     | 104                 | 71             | 89             | 264          | 49.6                     | 36                  | 82             | 77             | 195          | 47.7                     |
| 45 / 49                      | 97                  | 17             | 23             | 137          | 45.9                     | 80                  | 17             | 22             | 119          | 45.9                     | 74                  | 59             | 74             | 206          | 44.3                     |
| 40 / 44                      | 23                  | 1              | 1              | 25           | 41.9                     | 23                  | 2              | 2              | 27           | 41.1                     | 54                  | 23             | 30             | 107          | 40.1                     |
| 35 / 39                      | 4                   |                | 0              | 4            | 37.1                     | 9                   | 0              | 1              | 10           | 36.1                     | 33                  | 12             | 15             | 60           | 35.1                     |
| 30 / 34                      | 0                   |                |                | 0            | 33.8                     | 2                   |                | 0              | 2            | 31.9                     | 22                  | 5              | 8              | 35           | 30.3                     |
| 25 / 29                      |                     |                |                |              |                          | 0                   |                |                | 0            | 28.0                     | 10                  | 1              | 2              | 13           | 26.0                     |
| 20 / 24                      |                     |                |                |              |                          |                     |                |                |              |                          | 3                   | 0              | 0              | 3            | 21.4                     |
| 15 / 19                      |                     |                |                |              |                          |                     |                |                |              |                          | 1                   |                | 0              | 1            | 17.2                     |
| 10 / 14                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 5 / 9                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 0 / 4                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -5 / -1                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -10 / -6                     |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -15 / -11                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -20 / -16                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -25 / -21                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -30 / -26                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -35 / -31                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -40 / -36                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -45 / -41                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -50 / -46                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

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KING SALMON

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WMO No. 703260

**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 |              |                          |
| 80 / 84                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 75 / 79                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 70 / 74                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 65 / 69                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 60 / 64                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 55 / 59                      | 0                   | 1              | 0              | 1            | 49.8                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 50 / 54                      | 3                   | 13             | 5              | 21           | 46.2                     | 0                   | 0              | 0              | 0            | 45.9                     |                     |                |                |              |                          |
| 45 / 49                      | 15                  | 40             | 29             | 85           | 42.9                     | 4                   | 8              | 4              | 16           | 42.4                     | 1                   | 1              | 1              | 3            | 41.6                     |
| 40 / 44                      | 38                  | 49             | 50             | 136          | 39.2                     | 17                  | 22             | 18             | 57           | 38.2                     | 10                  | 14             | 13             | 37           | 37.8                     |
| 35 / 39                      | 46                  | 44             | 48             | 137          | 34.8                     | 38                  | 41             | 41             | 119          | 34.6                     | 37                  | 40             | 38             | 115          | 34.3                     |
| 30 / 34                      | 45                  | 39             | 46             | 130          | 30.0                     | 35                  | 40             | 40             | 114          | 30.7                     | 39                  | 37             | 37             | 113          | 30.6                     |
| 25 / 29                      | 30                  | 27             | 27             | 85           | 25.2                     | 26                  | 30             | 29             | 84           | 25.7                     | 24                  | 26             | 25             | 75           | 25.9                     |
| 20 / 24                      | 26                  | 16             | 18             | 60           | 20.7                     | 26                  | 22             | 24             | 71           | 20.9                     | 18                  | 19             | 22             | 59           | 21.1                     |
| 15 / 19                      | 21                  | 10             | 12             | 43           | 16.1                     | 27                  | 24             | 22             | 72           | 16.2                     | 19                  | 19             | 19             | 57           | 16.3                     |
| 10 / 14                      | 11                  | 6              | 6              | 23           | 11.1                     | 19                  | 21             | 20             | 60           | 11.1                     | 14                  | 16             | 15             | 45           | 11.2                     |
| 5 / 9                        | 6                   | 3              | 3              | 12           | 6.7                      | 17                  | 13             | 15             | 45           | 6.3                      | 15                  | 15             | 17             | 47           | 6.2                      |
| 0 / 4                        | 3                   | 1              | 2              | 6            | 1.8                      | 13                  | 12             | 13             | 38           | 1.6                      | 13                  | 16             | 13             | 42           | 1.0                      |
| -5 / -1                      | 2                   | 0              | 1              | 3            | -2.7                     | 7                   | 5              | 7              | 19           | -2.9                     | 13                  | 14             | 15             | 42           | -3.4                     |
| -10 / -6                     | 1                   | 0              | 0              | 1            | -6.3                     | 6                   | 3              | 4              | 13           | -7.0                     | 17                  | 15             | 15             | 47           | -7.5                     |
| -15 / -11                    | 0                   | 0              |                | 0            | -12.0                    | 3                   | 1              | 2              | 6            | -11.7                    | 10                  | 9              | 9              | 28           | -12.3                    |
| -20 / -16                    |                     |                |                |              |                          | 1                   | 0              | 1              | 2            | -16.9                    | 7                   | 5              | 6              | 18           | -17.0                    |
| -25 / -21                    |                     |                |                |              |                          | 1                   | 0              | 0              | 1            | -21.6                    | 5                   | 3              | 3              | 11           | -21.6                    |
| -30 / -26                    |                     |                |                |              |                          | 0                   | 0              | 0              | 0            | -25.6                    | 2                   | 1              | 2              | 5            | -26.5                    |
| -35 / -31                    |                     |                |                |              |                          |                     |                |                |              |                          | 1                   | 0              | 0              | 1            | -31.4                    |
| -40 / -36                    |                     |                |                |              |                          |                     |                |                |              |                          | 0                   |                |                | 0            | -35.0                    |
| -45 / -41                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| -50 / -46                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

**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.

KING SALMON

AK

WMO No. 703260

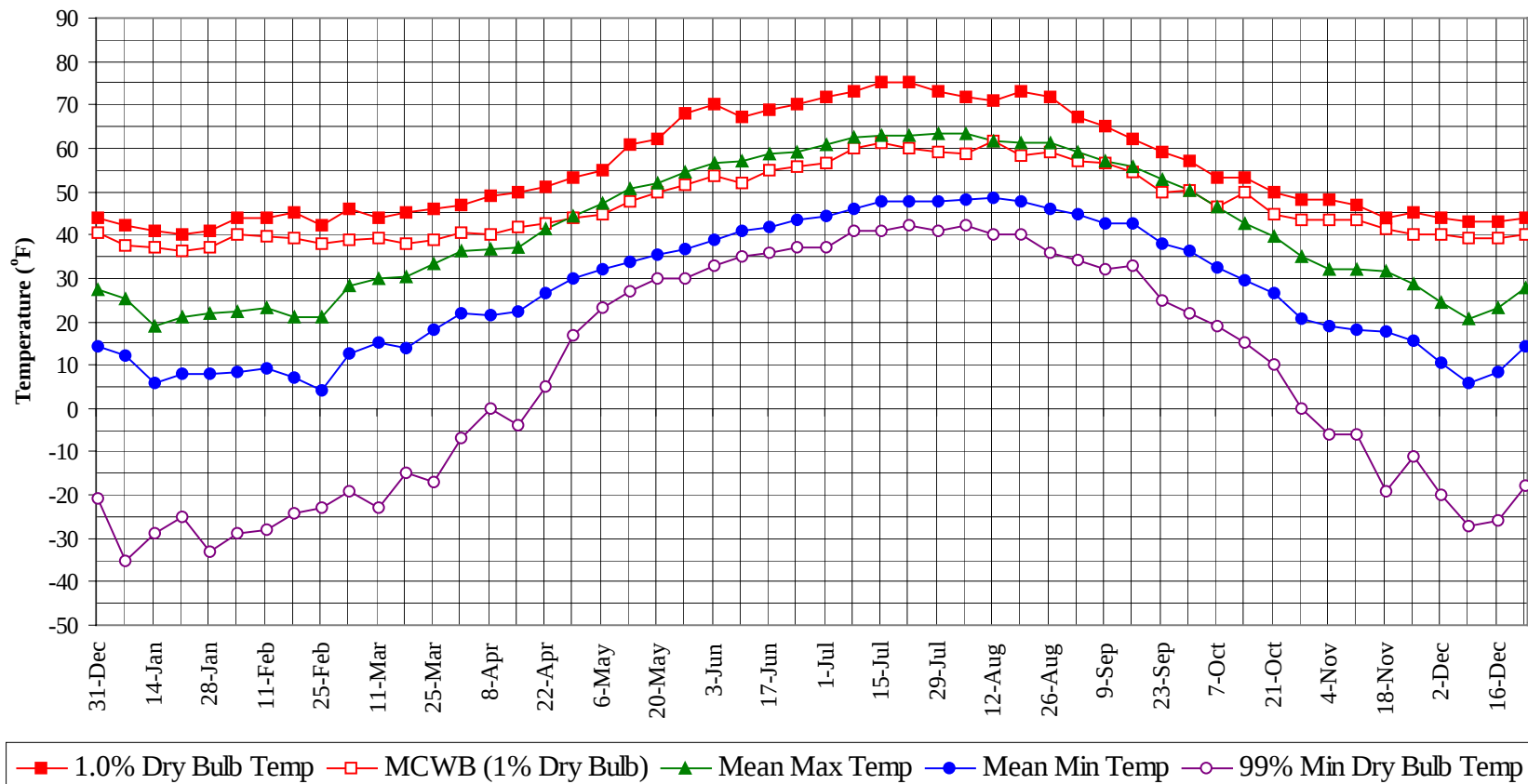
**Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**

Period of Record = 1967 to 1996

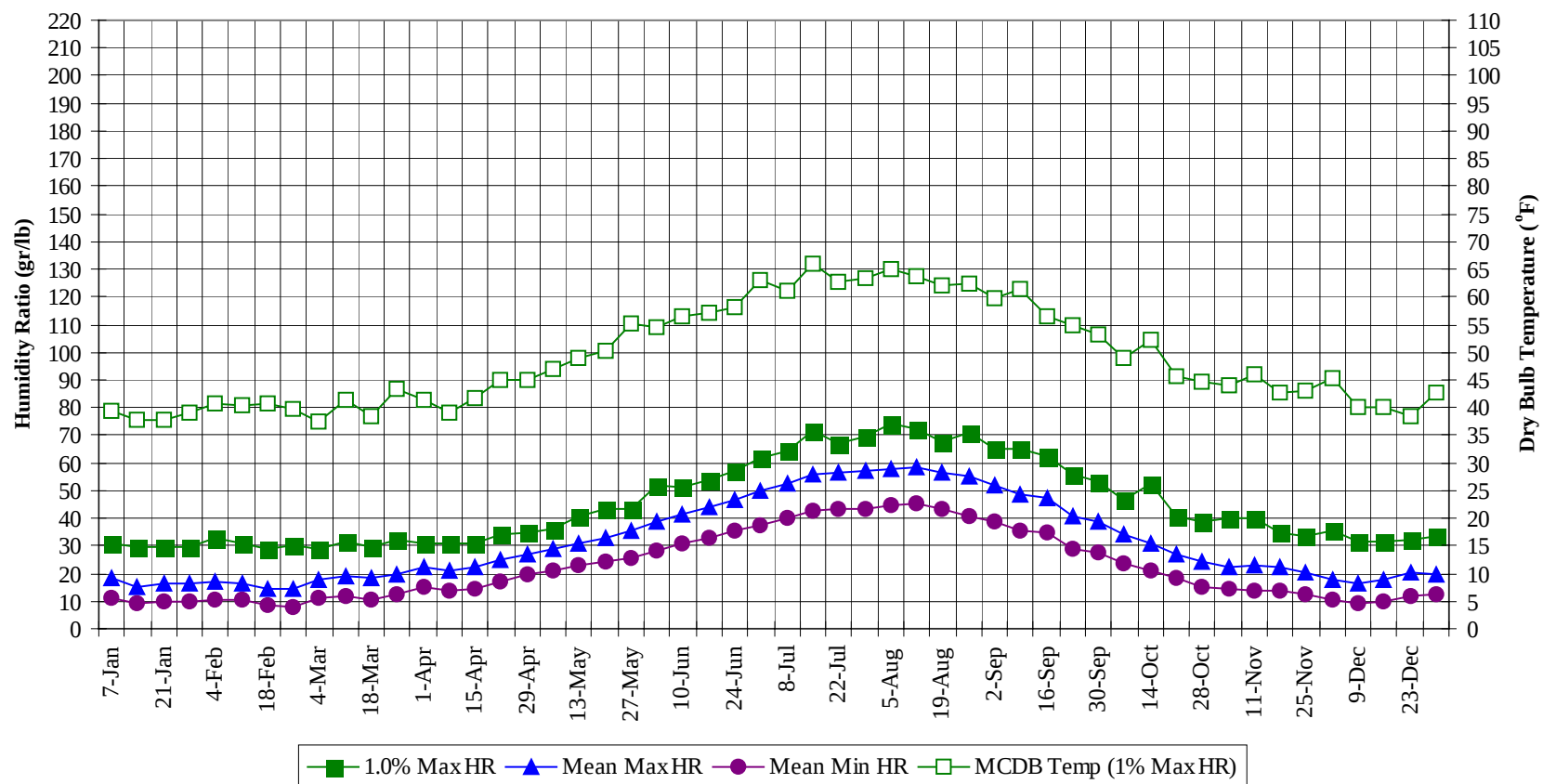
| Annual Totals                |                     |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|
| Temperature<br>Range<br>(°F) | Hour<br>Group (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 |              |                          |
| 80 / 84                      |                     | 0              | 0              | 0            | 61.9                     |
| 75 / 79                      |                     | 6              | 5              | 11           | 60.9                     |
| 70 / 74                      | 0                   | 24             | 19             | 43           | 58.3                     |
| 65 / 69                      | 1                   | 63             | 43             | 107          | 56.1                     |
| 60 / 64                      | 5                   | 148            | 113            | 266          | 53.7                     |
| 55 / 59                      | 52                  | 288            | 247            | 586          | 51.2                     |
| 50 / 54                      | 277                 | 368            | 360            | 1005         | 48.0                     |
| 45 / 49                      | 388                 | 297            | 302            | 987          | 43.7                     |
| 40 / 44                      | 340                 | 282            | 284            | 906          | 38.8                     |
| 35 / 39                      | 430                 | 340            | 370            | 1140         | 34.3                     |
| 30 / 34                      | 398                 | 279            | 319            | 996          | 30.3                     |
| 25 / 29                      | 227                 | 175            | 180            | 583          | 25.5                     |
| 20 / 24                      | 159                 | 123            | 132            | 414          | 20.7                     |
| 15 / 19                      | 133                 | 110            | 114            | 357          | 16.0                     |
| 10 / 14                      | 95                  | 88             | 87             | 270          | 11.0                     |
| 5 / 9                        | 95                  | 74             | 81             | 250          | 6.2                      |
| 0 / 4                        | 75                  | 69             | 70             | 214          | 1.1                      |
| -5 / -1                      | 55                  | 48             | 53             | 156          | -3.2                     |
| -10 / -6                     | 65                  | 56             | 53             | 174          | -7.5                     |
| -15 / -11                    | 45                  | 37             | 38             | 120          | -12.4                    |
| -20 / -16                    | 37                  | 24             | 27             | 87           | -17.0                    |
| -25 / -21                    | 23                  | 12             | 14             | 49           | -21.8                    |
| -30 / -26                    | 13                  | 6              | 6              | 25           | -26.6                    |
| -35 / -31                    | 4                   | 2              | 2              | 8            | -31.4                    |
| -40 / -36                    | 2                   | 1              | 1              | 4            | -35.8                    |
| -45 / -41                    | 1                   | 0              | 0              | 1            |                          |
| -50 / -46                    | 0                   | 0              |                | 0            |                          |

**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



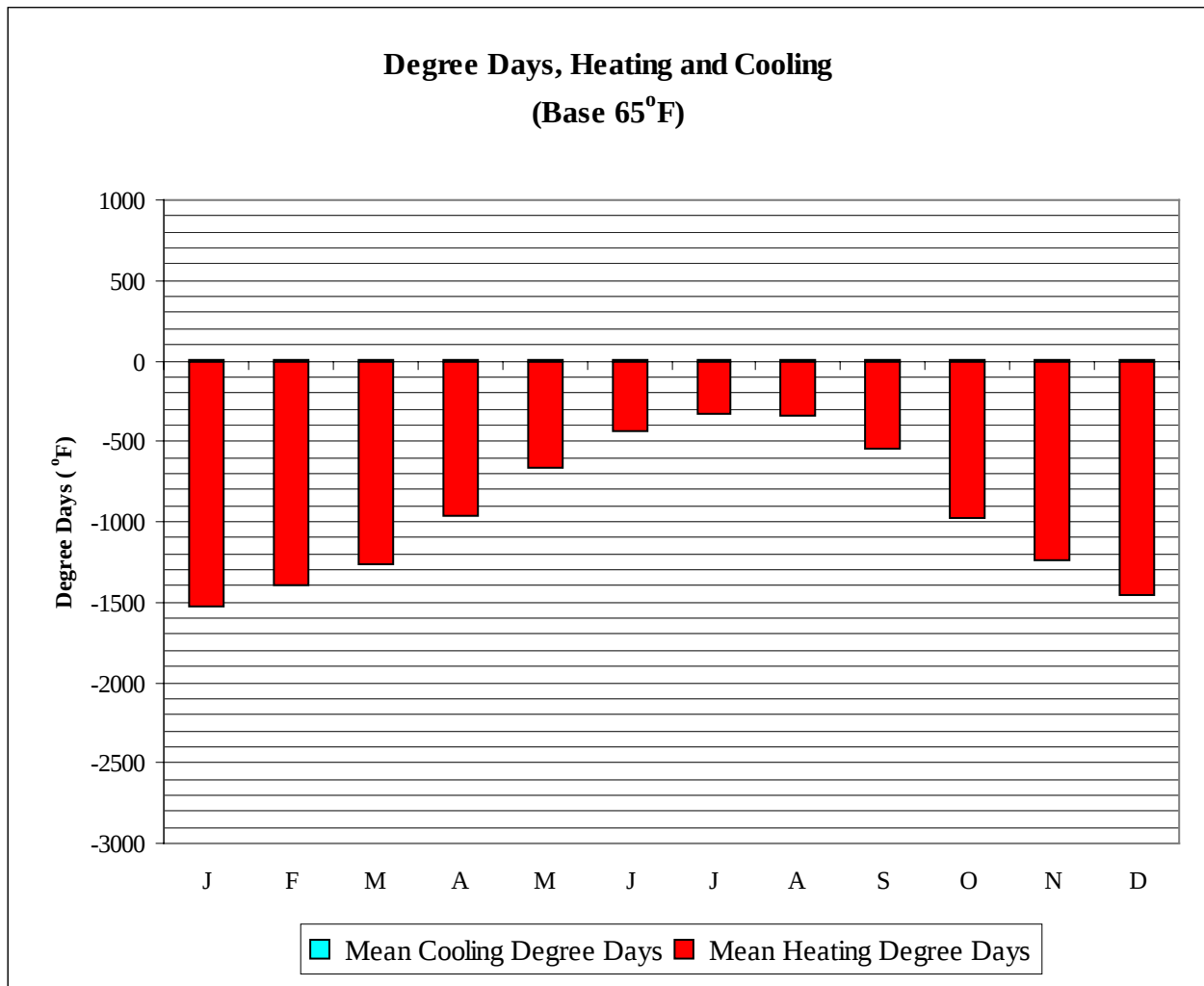
**KING SALMON****AK****WMO No. 703260****Long Term Dry Bulb Temperature and Humidity Summary**

| Week Ending | 1.0% Temp (°F) | MCWB @ 1% Temp (°F) | Mean Max Temp (°F) | Mean Min Temp (°F) | 99% Temp (°F) | 1.0% HR (gr/lb) | MCDB @ 1% HR (°F) | Mean Max HR (gr/lb) | Mean Min HR (gr/lb) |
|-------------|----------------|---------------------|--------------------|--------------------|---------------|-----------------|-------------------|---------------------|---------------------|
| 7-Jan       | 42.0           | 37.7                | 25.2               | 12.1               | -35.0         | 30.8            | 39.5              | 18.7                | 11.3                |
| 14-Jan      | 41.0           | 37.1                | 19.1               | 5.8                | -29.0         | 29.4            | 37.8              | 15.2                | 9.1                 |
| 21-Jan      | 40.0           | 36.2                | 20.9               | 8.1                | -25.0         | 29.4            | 37.8              | 16.5                | 9.9                 |
| 28-Jan      | 41.0           | 37.3                | 21.9               | 7.8                | -33.0         | 29.4            | 39.0              | 16.7                | 9.7                 |
| 4-Feb       | 44.0           | 40.0                | 22.2               | 8.3                | -29.0         | 32.9            | 40.6              | 16.8                | 10.2                |
| 11-Feb      | 44.0           | 39.5                | 23.0               | 9.3                | -28.0         | 30.8            | 40.3              | 16.5                | 10.2                |
| 18-Feb      | 45.0           | 39.1                | 21.1               | 6.9                | -24.0         | 28.7            | 40.6              | 14.8                | 8.6                 |
| 25-Feb      | 42.0           | 37.9                | 21.0               | 4.1                | -23.0         | 30.1            | 39.9              | 14.5                | 7.8                 |
| 4-Mar       | 46.0           | 38.8                | 28.1               | 12.6               | -19.0         | 28.7            | 37.5              | 17.7                | 10.9                |
| 11-Mar      | 44.0           | 39.2                | 30.1               | 15.3               | -23.0         | 31.5            | 41.4              | 18.9                | 11.8                |
| 18-Mar      | 45.0           | 38.1                | 30.2               | 13.7               | -15.0         | 29.4            | 38.4              | 18.4                | 10.7                |
| 25-Mar      | 46.0           | 38.8                | 33.3               | 17.9               | -17.0         | 32.2            | 43.4              | 19.9                | 12.8                |
| 1-Apr       | 47.0           | 40.4                | 36.2               | 22.0               | -7.0          | 30.8            | 41.5              | 22.1                | 15.0                |
| 8-Apr       | 49.0           | 40.1                | 36.7               | 21.3               | 0.0           | 30.8            | 39.2              | 21.3                | 14.0                |
| 15-Apr      | 50.0           | 41.9                | 37.3               | 22.4               | -4.0          | 30.8            | 41.9              | 22.0                | 14.5                |
| 22-Apr      | 51.0           | 42.7                | 41.4               | 26.7               | 5.0           | 34.3            | 45.1              | 24.9                | 17.4                |
| 29-Apr      | 53.0           | 43.9                | 44.4               | 29.9               | 17.0          | 35.0            | 44.9              | 26.9                | 19.5                |
| 6-May       | 55.0           | 44.6                | 47.1               | 32.0               | 23.0          | 36.4            | 47.0              | 29.1                | 21.1                |
| 13-May      | 61.0           | 47.8                | 50.5               | 33.7               | 27.0          | 40.6            | 49.0              | 30.9                | 22.7                |
| 20-May      | 62.0           | 49.8                | 52.0               | 35.6               | 30.0          | 43.4            | 50.2              | 33.1                | 24.2                |
| 27-May      | 68.0           | 51.6                | 54.3               | 36.8               | 30.0          | 43.4            | 55.1              | 35.4                | 25.4                |
| 3-Jun       | 70.0           | 53.7                | 56.7               | 39.0               | 33.0          | 51.8            | 54.6              | 38.9                | 28.5                |
| 10-Jun      | 67.0           | 52.0                | 57.2               | 40.9               | 35.0          | 51.1            | 56.6              | 41.5                | 30.8                |
| 17-Jun      | 69.0           | 54.9                | 58.7               | 41.9               | 36.0          | 53.9            | 57.0              | 44.0                | 32.7                |
| 24-Jun      | 70.0           | 55.7                | 59.1               | 43.6               | 37.0          | 57.4            | 58.2              | 46.8                | 35.3                |
| 1-Jul       | 72.0           | 56.8                | 61.0               | 44.4               | 37.0          | 61.6            | 63.2              | 49.9                | 37.6                |
| 8-Jul       | 73.0           | 60.2                | 62.3               | 46.1               | 41.0          | 64.4            | 61.1              | 52.7                | 40.1                |
| 15-Jul      | 75.0           | 61.3                | 62.8               | 47.6               | 41.0          | 71.4            | 66.1              | 55.8                | 42.5                |
| 22-Jul      | 75.0           | 60.1                | 62.8               | 47.5               | 42.0          | 67.2            | 62.9              | 56.2                | 43.0                |
| 29-Jul      | 73.0           | 59.3                | 63.4               | 47.8               | 41.0          | 69.3            | 63.3              | 57.1                | 43.6                |
| 5-Aug       | 72.0           | 58.6                | 63.2               | 48.3               | 42.0          | 74.2            | 65.1              | 57.7                | 44.4                |
| 12-Aug      | 71.0           | 61.5                | 61.8               | 48.8               | 40.0          | 72.1            | 63.6              | 58.4                | 45.2                |
| 19-Aug      | 73.0           | 58.2                | 61.3               | 47.6               | 40.0          | 67.9            | 62.1              | 56.4                | 43.2                |
| 26-Aug      | 72.0           | 59.3                | 61.2               | 46.0               | 36.0          | 70.7            | 62.4              | 55.3                | 40.8                |
| 2-Sep       | 67.0           | 56.9                | 59.2               | 44.8               | 34.0          | 65.1            | 59.8              | 51.7                | 38.7                |
| 9-Sep       | 65.0           | 56.6                | 57.2               | 42.5               | 32.0          | 65.1            | 61.2              | 48.4                | 35.6                |
| 16-Sep      | 62.0           | 54.7                | 55.6               | 42.8               | 33.0          | 62.3            | 56.6              | 47.5                | 34.9                |
| 23-Sep      | 59.0           | 49.9                | 52.7               | 38.1               | 25.0          | 56.0            | 54.9              | 40.6                | 29.1                |
| 30-Sep      | 57.0           | 50.3                | 50.4               | 36.1               | 22.0          | 53.2            | 53.1              | 39.0                | 27.4                |
| 7-Oct       | 53.0           | 46.4                | 46.4               | 32.4               | 19.0          | 46.9            | 48.8              | 34.3                | 23.7                |
| 14-Oct      | 53.0           | 49.8                | 42.8               | 29.4               | 15.0          | 52.5            | 52.3              | 31.1                | 21.0                |
| 21-Oct      | 50.0           | 44.8                | 39.5               | 26.7               | 10.0          | 40.6            | 45.6              | 27.2                | 18.6                |
| 28-Oct      | 48.0           | 43.3                | 35.0               | 20.5               | 0.0           | 38.5            | 44.7              | 24.2                | 14.9                |
| 4-Nov       | 48.0           | 43.4                | 32.1               | 18.9               | -6.0          | 39.9            | 44.2              | 22.2                | 14.1                |
| 11-Nov      | 47.0           | 43.6                | 32.0               | 18.2               | -6.0          | 39.9            | 46.1              | 22.8                | 13.7                |
| 18-Nov      | 44.0           | 41.2                | 31.5               | 17.5               | -19.0         | 35.0            | 42.8              | 22.4                | 13.6                |
| 25-Nov      | 45.0           | 40.2                | 28.8               | 15.4               | -11.0         | 33.6            | 42.9              | 20.6                | 12.2                |
| 2-Dec       | 44.0           | 39.9                | 24.2               | 10.7               | -20.0         | 35.7            | 45.3              | 17.9                | 10.3                |
| 9-Dec       | 43.0           | 39.2                | 20.7               | 6.0                | -27.0         | 31.5            | 40.1              | 16.4                | 9.1                 |
| 16-Dec      | 43.0           | 39.4                | 23.1               | 8.4                | -26.0         | 31.5            | 40.0              | 17.6                | 9.7                 |
| 23-Dec      | 44.0           | 40.2                | 27.9               | 14.2               | -18.0         | 32.2            | 38.3              | 20.3                | 11.9                |
| 31-Dec      | 44.0           | 40.4                | 27.6               | 14.4               | -21.0         | 33.6            | 42.6              | 20.0                | 12.3                |

KING SALMON

AK

WMO No. 703260



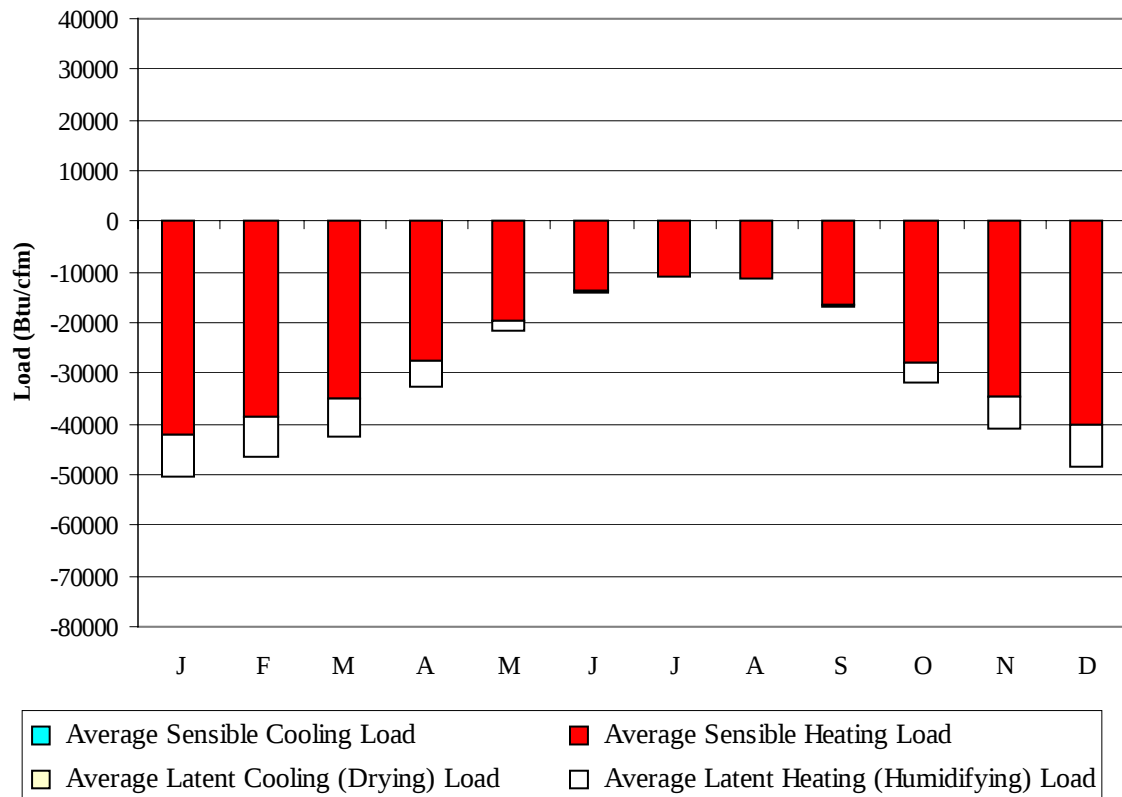
|     | Mean Cooling<br>Degree Days (°F) | Mean Heating<br>Degree Days (°F) |
|-----|----------------------------------|----------------------------------|
| JAN | 0                                | 1529                             |
| FEB | 0                                | 1397                             |
| MAR | 0                                | 1262                             |
| APR | 0                                | 969                              |
| MAY | 1                                | 669                              |
| JUN | 3                                | 442                              |
| JUL | 11                               | 328                              |
| AUG | 7                                | 344                              |
| SEP | 0                                | 539                              |
| OCT | 0                                | 978                              |
| NOV | 0                                | 1241                             |
| DEC | 0                                | 1456                             |
| ANN | 23                               | 11154                            |

KING SALMON

AK

WMO No. 703260

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



|     | Average Sensible Cooling Load | Average Sensible Heating Load | Average Latent Cooling Load | Average Latent Heating Load |
|-----|-------------------------------|-------------------------------|-----------------------------|-----------------------------|
|     | (Btu/cfm)                     | (Btu/cfm)                     | (Btu/cfm)                   | (Btu/cfm)                   |
| JAN | 0                             | -42032                        | 0                           | -8490                       |
| FEB | 0                             | -38393                        | 0                           | -8242                       |
| MAR | 0                             | -35123                        | 0                           | -7384                       |
| APR | 0                             | -27440                        | 0                           | -5254                       |
| MAY | 0                             | -19740                        | 0                           | -1956                       |
| JUN | 2                             | -13772                        | 0                           | -160                        |
| JUL | 14                            | -10761                        | 7                           | -6                          |
| AUG | 4                             | -11234                        | 4                           | -59                         |
| SEP | 0                             | -16275                        | 0                           | -763                        |
| OCT | 0                             | -27757                        | 0                           | -4168                       |
| NOV | 0                             | -34496                        | 0                           | -6621                       |
| DEC | 0                             | -40155                        | 0                           | -8112                       |
| ANN | 20                            | -317178                       | 11                          | -51215                      |

## Average Annual Solar Radiation – Nearest Available Site

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

City: KING SALMON  
 State: AK  
 WBAN No: 25503  
 Lat(N): 58.68  
 Long(W): 156.65  
 Elev(ft): 49

Stn Type: Secondary  
 SHADING GEOMETRY IN DIMENSIONLESS UNITS  
 Window: 1  
 Overhang: 0.141  
 Vert Gap: 0.2

| 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  | 140  | 370  | 750  | 1130 | 1380 | 1470 | 1370 | 1070 | 740  | 430  | 190  | 95  | 760  |
|                                                                               | Std Dev | 17   | 45   | 105  | 97   | 137  | 133  | 95   | 101  | 75   | 34   | 18   | 12  | 36   |
|                                                                               | Minimum | 110  | 300  | 570  | 940  | 1100 | 1230 | 1160 | 860  | 590  | 370  | 150  | 70  | 680  |
|                                                                               | Maximum | 170  | 460  | 980  | 1270 | 1670 | 1750 | 1560 | 1270 | 890  | 530  | 230  | 110 | 830  |
|                                                                               | Diffuse | 90   | 200  | 400  | 610  | 800  | 930  | 880  | 710  | 470  | 260  | 120  | 63  | 460  |
| Clear Day                                                                     | Global  | 190  | 490  | 1050 | 1760 | 2330 | 2600 | 2460 | 1940 | 1260 | 640  | 250  | 130 | 1260 |
| NORTH                                                                         | Global  | 55   | 130  | 240  | 380  | 520  | 590  | 550  | 410  | 270  | 150  | 72   | 38  | 280  |
|                                                                               | Diffuse | 55   | 130  | 240  | 360  | 470  | 530  | 500  | 390  | 270  | 150  | 72   | 38  | 270  |
| Clear Day                                                                     | Global  | 51   | 110  | 210  | 360  | 650  | 860  | 760  | 460  | 240  | 140  | 63   | 35  | 330  |
| EAST                                                                          | Global  | 140  | 320  | 560  | 780  | 890  | 850  | 790  | 650  | 500  | 340  | 170  | 94  | 510  |
|                                                                               | Diffuse | 71   | 160  | 310  | 450  | 560  | 610  | 570  | 460  | 330  | 190  | 93   | 48  | 320  |
| Clear Day                                                                     | Global  | 250  | 540  | 960  | 1380 | 1680 | 1800 | 1730 | 1470 | 1080 | 650  | 310  | 190 | 1010 |
| SOUTH                                                                         | Global  | 500  | 820  | 1030 | 1030 | 930  | 890  | 850  | 800  | 760  | 720  | 510  | 390 | 770  |
|                                                                               | Diffuse | 150  | 260  | 400  | 500  | 580  | 620  | 590  | 500  | 390  | 280  | 170  | 110 | 380  |
| Clear Day                                                                     | Global  | 1130 | 1660 | 1980 | 1910 | 1700 | 1580 | 1610 | 1780 | 1910 | 1750 | 1260 | 950 | 1600 |
| WEST                                                                          | Global  | 140  | 320  | 570  | 770  | 870  | 920  | 860  | 690  | 500  | 330  | 170  | 93  | 520  |
|                                                                               | Diffuse | 71   | 160  | 310  | 450  | 560  | 620  | 580  | 470  | 330  | 190  | 93   | 49  | 330  |
| Clear Day                                                                     | Global  | 250  | 540  | 960  | 1380 | 1680 | 1800 | 1730 | 1470 | 1080 | 650  | 310  | 190 | 1010 |

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

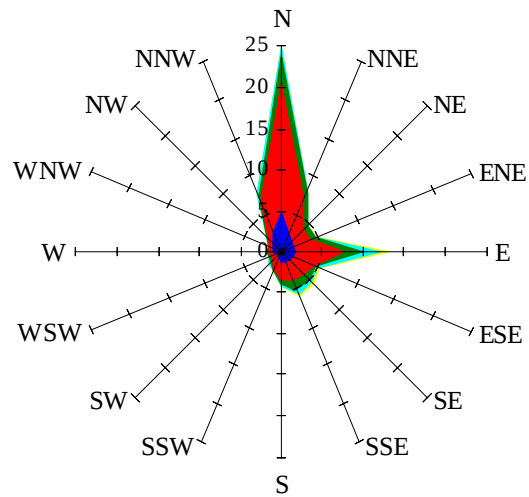
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

| 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 NORTH                                                                                         | Unshaded | 76  | 210 | 490 | 780 | 970 | 1040 | 960 | 750 | 500 | 270 | 110 | 50  | 520  |
|                                                                                                     | Unshaded | 38  | 87  | 170 | 260 | 350 | 400  | 370 | 280 | 190 | 110 | 50  | 26  | 190  |
|                                                                                                     | Shaded   | 37  | 84  | 160 | 250 | 340 | 390  | 360 | 270 | 180 | 100 | 49  | 26  | 190  |
| EAST                                                                                                | Unshaded | 90  | 220 | 400 | 560 | 630 | 610  | 560 | 460 | 360 | 240 | 110 | 59  | 360  |
|                                                                                                     | Shaded   | 89  | 220 | 390 | 550 | 620 | 590  | 550 | 450 | 350 | 230 | 110 | 58  | 350  |
| SOUTH                                                                                               | Unshaded | 380 | 620 | 750 | 720 | 640 | 600  | 580 | 560 | 550 | 540 | 390 | 300 | 550  |
|                                                                                                     | Shaded   | 380 | 620 | 750 | 720 | 630 | 590  | 570 | 550 | 540 | 530 | 390 | 300 | 550  |
| WEST                                                                                                | Unshaded | 88  | 220 | 400 | 550 | 620 | 660  | 610 | 490 | 360 | 230 | 110 | 59  | 370  |
|                                                                                                     | Shaded   | 87  | 220 | 400 | 540 | 610 | 640  | 600 | 480 | 350 | 230 | 110 | 58  | 360  |

| 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  | 6     | 30   | 48  | 48  | 32  | 28   | 55   | 75  | 81  | 72  |
|                                                                                                                  | M.Cloudy | 4     | 19   | 30  | 30  | 21  | 16   | 33   | 44  | 51  | 46  |
| NORTH                                                                                                            | M.Clear  | 3     | 8    | 10  | 11  | 8   | 20   | 12   | 14  | 15  | 14  |
|                                                                                                                  | M.Cloudy | 2     | 8    | 12  | 12  | 9   | 9    | 13   | 16  | 17  | 16  |
| EAST                                                                                                             | M.Clear  | 26    | 61   | 36  | 11  | 8   | 64   | 79   | 57  | 15  | 14  |
|                                                                                                                  | M.Cloudy | 7     | 21   | 19  | 12  | 9   | 19   | 32   | 29  | 17  | 16  |
| SOUTH                                                                                                            | M.Clear  | 8     | 53   | 86  | 86  | 57  | 8    | 29   | 60  | 71  | 57  |
|                                                                                                                  | M.Cloudy | 3     | 19   | 33  | 33  | 21  | 7    | 17   | 30  | 38  | 32  |
| WEST                                                                                                             | M.Clear  | 3     | 8    | 10  | 31  | 61  | 8    | 12   | 14  | 16  | 57  |
|                                                                                                                  | M.Cloudy | 2     | 8    | 12  | 18  | 23  | 7    | 13   | 16  | 18  | 32  |
| M.Clear                                                                                                          | (% hrs)  | 28    | 29   | 28  | 29  | 28  | 8    | 8    | 9   | 8   | 8   |
|                                                                                                                  |          | Sept  |      |     |     |     | Dec  |      |     |     |     |
|                                                                                                                  |          | 9am   | 11am | 1pm | 3pm | 5pm | 9am  | 11am | 1pm | 3pm | 5pm |
| HORIZ.                                                                                                           | M.Clear  | 4     | 26   | 48  | 53  | 45  | 0    | 0    | 10  | 9   | 0   |
|                                                                                                                  | M.Cloudy | 2     | 16   | 27  | 32  | 27  | 0    | 0    | 7   | 6   | 0   |
| NORTH                                                                                                            | M.Clear  | 2     | 8    | 11  | 12  | 10  | 0    | 0    | 4   | 4   | 0   |
|                                                                                                                  | M.Cloudy | 1     | 7    | 10  | 12  | 11  | 0    | 0    | 3   | 3   | 0   |
| EAST                                                                                                             | M.Clear  | 16    | 60   | 49  | 12  | 10  | 0    | 1    | 13  | 4   | 0   |
|                                                                                                                  | M.Cloudy | 4     | 19   | 21  | 12  | 11  | 0    | 0    | 5   | 3   | 0   |
| SOUTH                                                                                                            | M.Clear  | 2     | 34   | 70  | 81  | 65  | 0    | 1    | 45  | 41  | 0   |
|                                                                                                                  | M.Cloudy | 1     | 13   | 26  | 34  | 27  | 0    | 0    | 12  | 10  | 0   |
| WEST                                                                                                             | M.Clear  | 2     | 8    | 11  | 15  | 52  | 0    | 0    | 4   | 14  | 0   |
|                                                                                                                  | M.Cloudy | 1     | 7    | 10  | 13  | 23  | 0    | 0    | 3   | 5   | 0   |
| M.Clear                                                                                                          | (% hrs)  | 13    | 13   | 13  | 10  | 10  | 35   | 29   | 28  | 29  | 28  |

### Wind Summary - December, January, and February

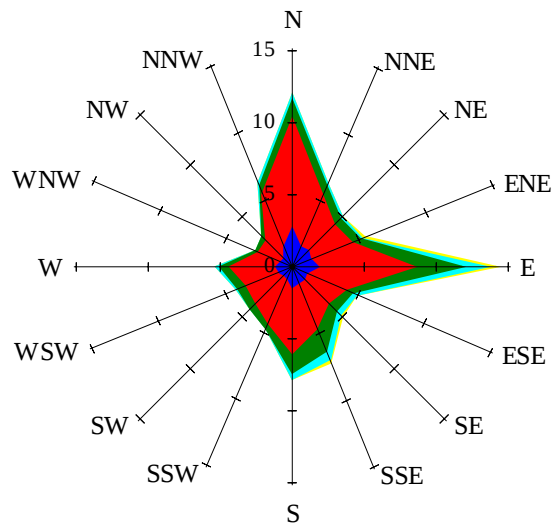
Labels of Percent Frequency on North Axis



Percent Calm = 5.89

### Wind Summary - March, April, and May

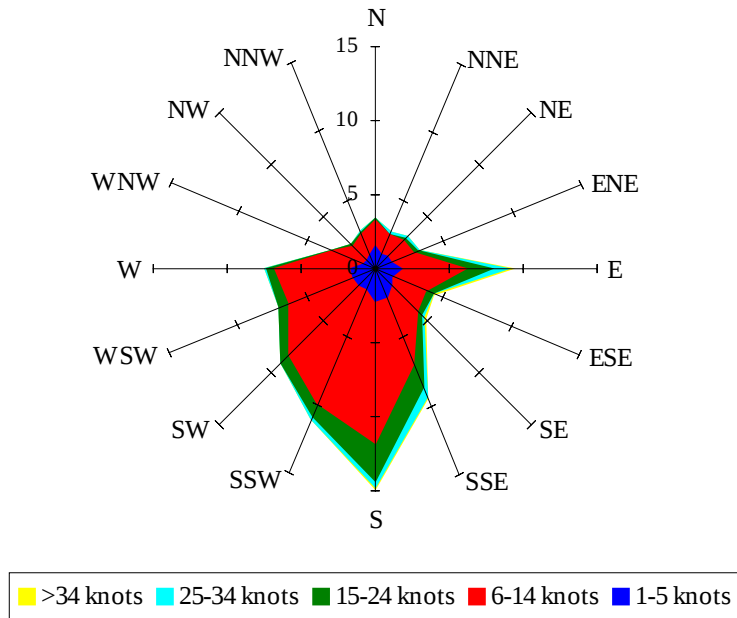
Labels of Percent Frequency on North Axis



Percent Calm = 3.09

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

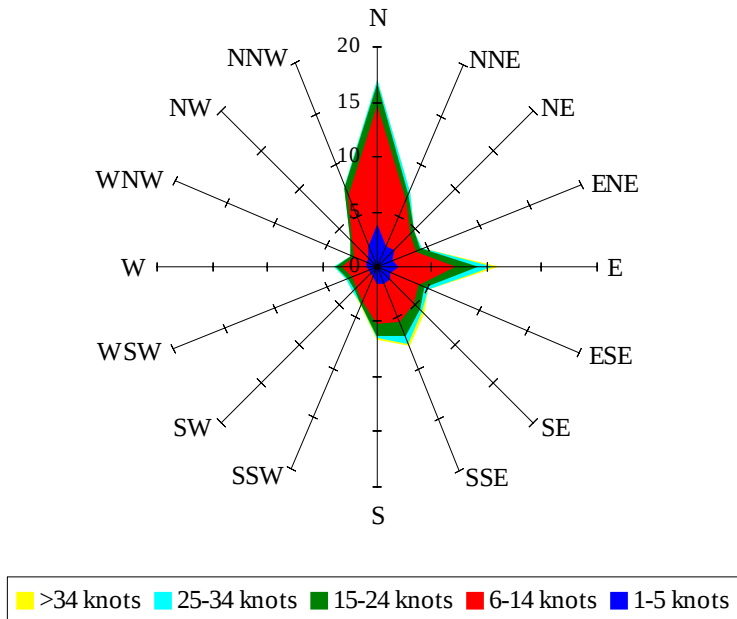
Labels of Percent Frequency on North Axis



Percent Calm = 2.62

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

Labels of Percent Frequency on North Axis



Percent Calm = 3.82