

|                                 |           |                                    |
|---------------------------------|-----------|------------------------------------|
| <b>MAYPORT NAS</b>              | <b>FL</b> | WMO No. 722066                     |
| Latitude = 30.40 N              |           | Elevation = 16 feet                |
| Longitude = 81.42 W             |           | Average Pressure = 30.00 inches Hg |
| Period of Record = 1973 to 1996 |           |                                    |

### 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                          | 98                  | 78                               | 112                     | 6.7                    | WSW                         |
| 0.4% Occurrence                                  | 94                  | 78                               | 116                     | 7.2                    | W                           |
| 1.0% Occurrence                                  | 92                  | 77                               | 119                     | 7.4                    | W                           |
| 2.0% Occurrence                                  | 90                  | 77                               | 119                     | 7.9                    | E                           |
| Mean Daily Range                                 | 14                  | -                                | -                       | -                      | -                           |
| 97.5% Occurrence                                 | 42                  | 37                               | 25                      | 5.9                    | WNW                         |
| 99.0% Occurrence                                 | 38                  | 34                               | 21                      | 5.9                    | NW                          |
| 99.6% Occurrence                                 | 33                  | 29                               | 16                      | 6.8                    | NW                          |
| Median of Extreme Lows                           | 27                  | 24                               | 12                      | 7.5                    | W                           |
|                                                  | <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                          | 83                  | 90                               | 154                     | 7.2                    | ESE                         |
| 0.4% Occurrence                                  | 81                  | 89                               | 143                     | 7.5                    | E                           |
| 1.0% Occurrence                                  | 80                  | 88                               | 138                     | 7.5                    | E                           |
| 2.0% Occurrence                                  | 79                  | 87                               | 134                     | 7.4                    | E                           |
|                                                  | <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                          | 162                 | 88                               | 1.07                    | 6.7                    | S                           |
| 0.4% Occurrence                                  | 146                 | 86                               | 0.97                    | 6.9                    | SE                          |
| 1.0% Occurrence                                  | 141                 | 85                               | 0.94                    | 6.7                    | E                           |
| 2.0% Occurrence                                  | 136                 | 84                               | 0.90                    | 6.5                    | E                           |
| <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      |
|                                                  |                     | 69                               | 2132                    | 2318                   | 4115                        |

### 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 |
|--------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 10                                               | 4.3                                          | 120                                                                | 6.0 + 1.9                                                                               |
| 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/ft²)                 | Average Annual<br>Freeze-Thaw Cycles<br>(#)                                             |
| 72.5                                             | 0                                            | 0                                                                  | 3                                                                                       |

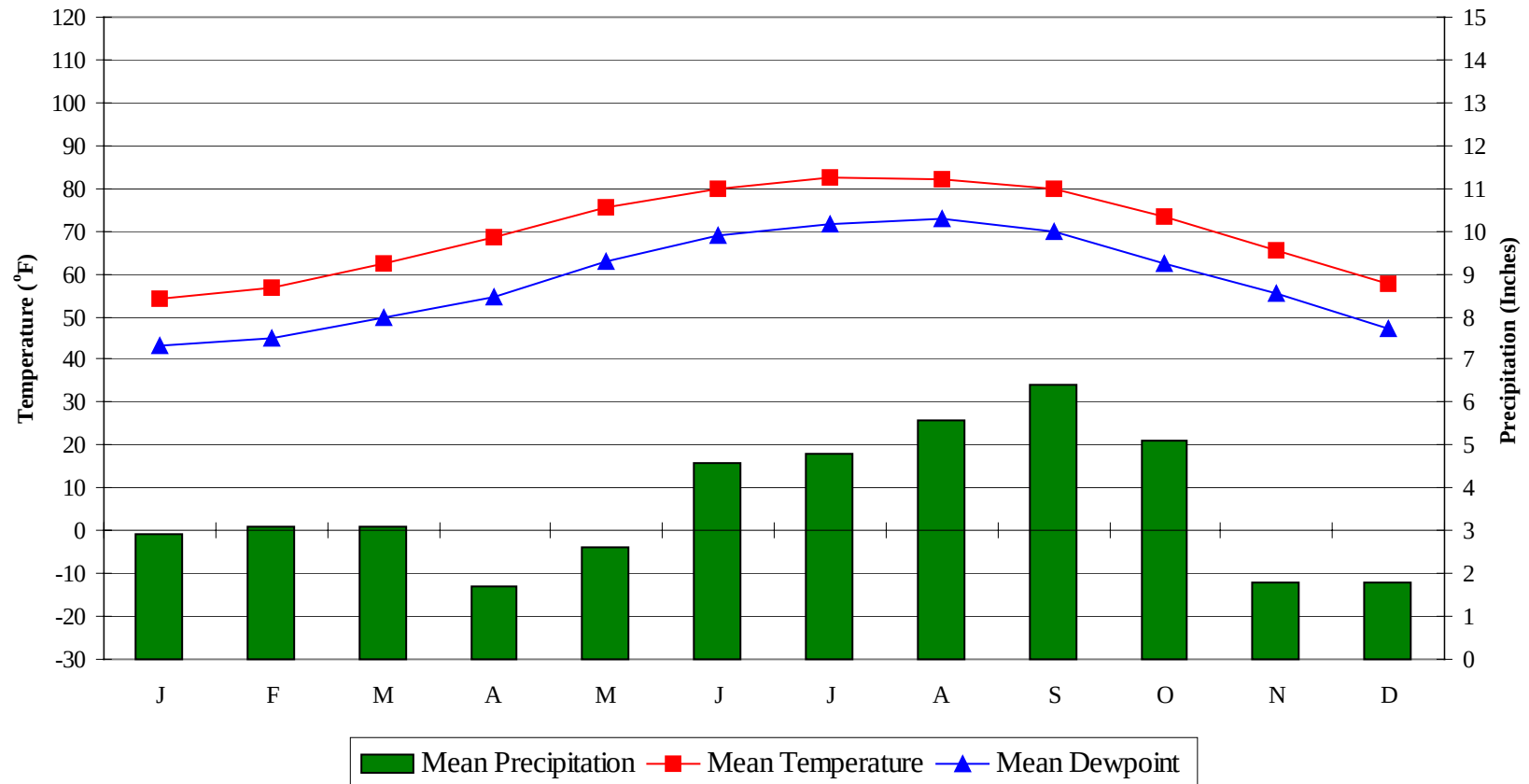
\*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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### Average Annual Climate

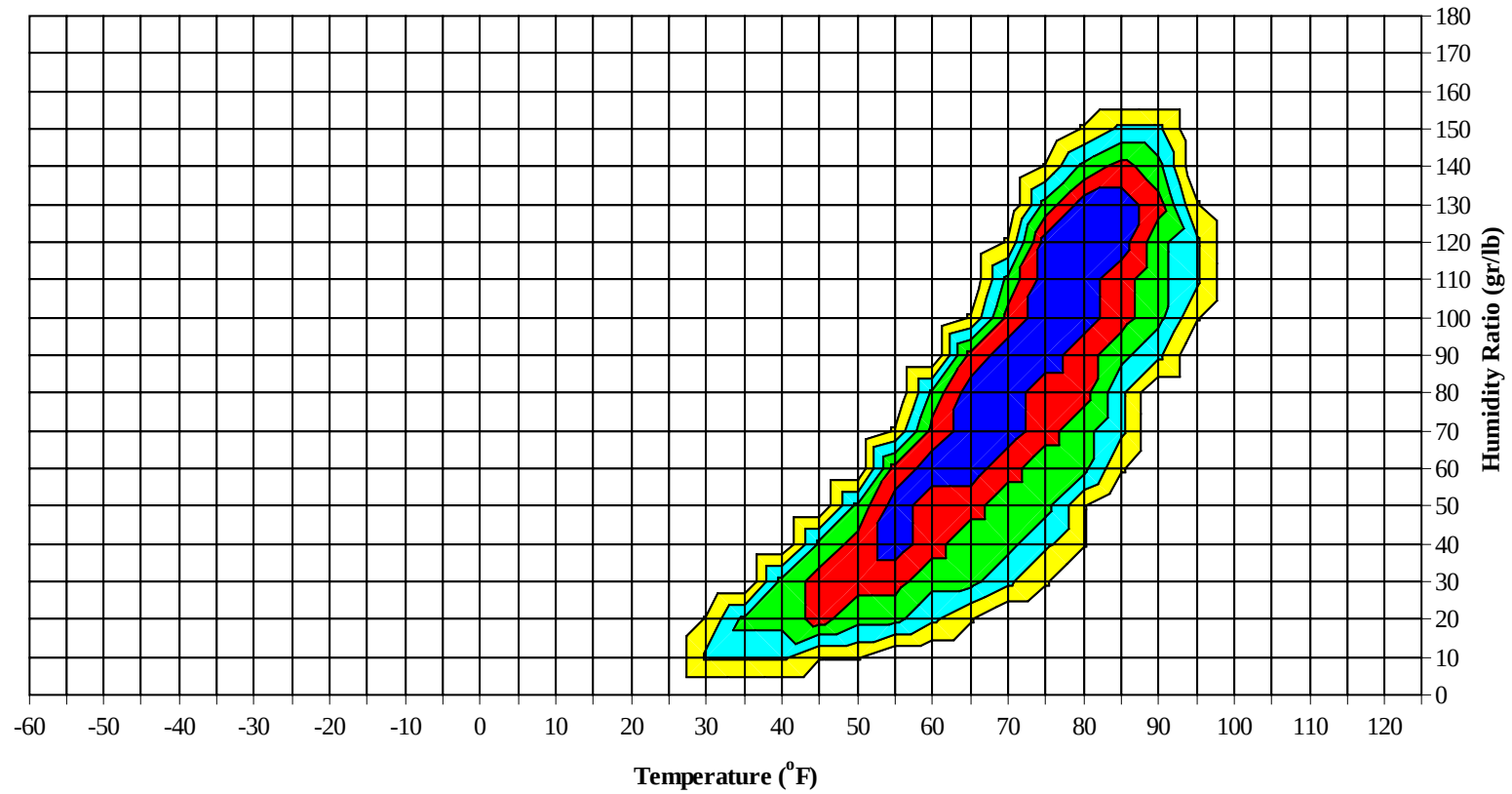


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### Long Term Psychrometric Summary



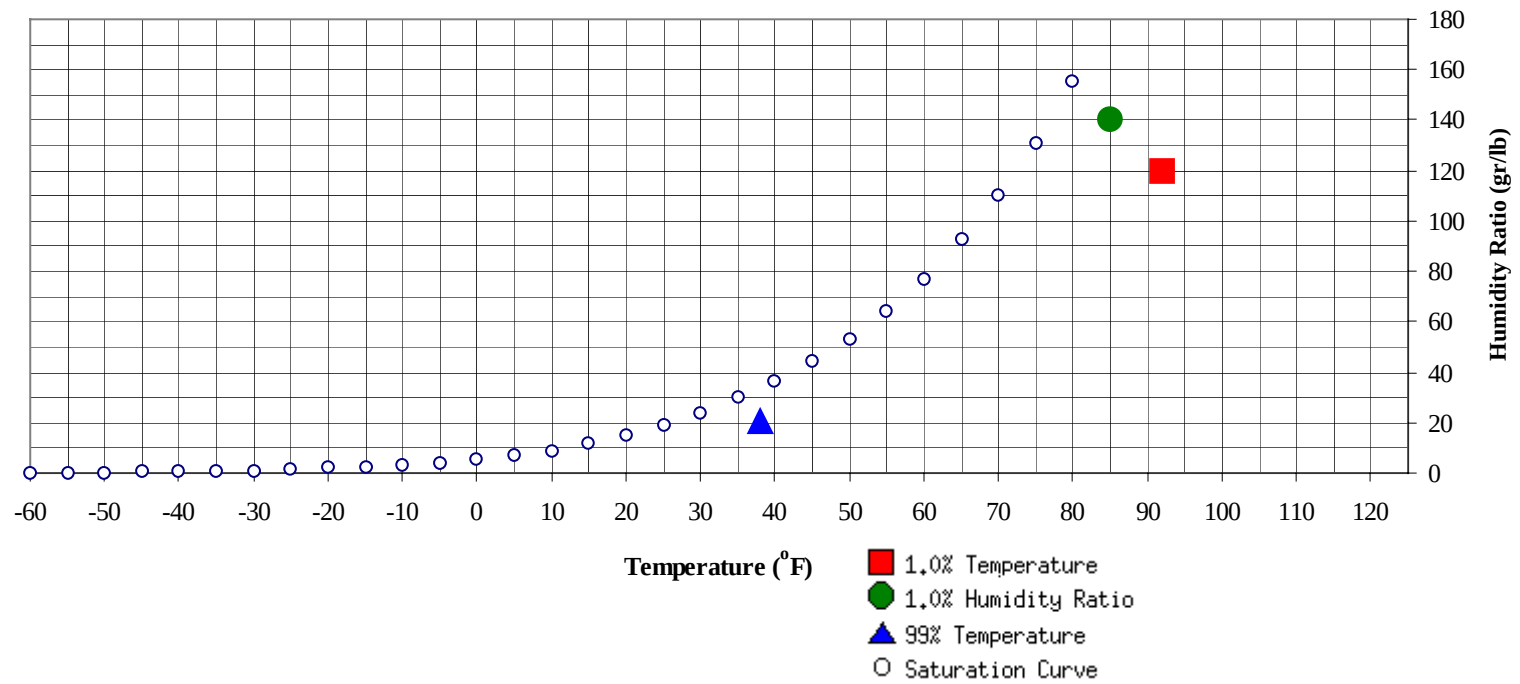
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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) |
|--------------|------|-----------------|----------------------|------------------------|---------|--------------|--------------|------------------|----------------------|
|              | 38   | 21              | 12.4                 |                        | 140.7   | 84.9         | 79.1         | 77               | 42.5                 |

| 1.0% Dry Bulb | (°F) | MCHR<br>(gr/lb) | MCWB<br>(°F) | Enthalpy<br>(btu/lb) |
|---------------|------|-----------------|--------------|----------------------|
|               | 92   | 119.8           | 77.7         | 40.9                 |

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**Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)**

Period of Record = 1973 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 |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 90 / 94                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 85 / 89                      |                     | 0              |                | 0            | 69.3                     |                     | 1              |                | 1            | 71.3                     |                     | 0              |                | 0            | 73.5                     |
| 80 / 84                      |                     | 4              | 0              | 4            | 69.3                     |                     | 4              | 1              | 5            | 67.6                     |                     | 13             | 3              | 16           | 66.9                     |
| 75 / 79                      |                     | 9              | 1              | 10           | 67.1                     |                     | 15             | 2              | 17           | 65.1                     | 0                   | 32             | 7              | 39           | 64.7                     |
| 70 / 74                      | 2                   | 21             | 6              | 30           | 64.2                     | 2                   | 25             | 11             | 39           | 62.8                     | 9                   | 49             | 27             | 85           | 63.0                     |
| 65 / 69                      | 17                  | 29             | 23             | 68           | 61.1                     | 17                  | 34             | 32             | 83           | 60.2                     | 42                  | 57             | 60             | 158          | 60.2                     |
| 60 / 64                      | 32                  | 47             | 36             | 114          | 56.5                     | 40                  | 39             | 42             | 121          | 56.4                     | 71                  | 46             | 69             | 186          | 56.4                     |
| 55 / 59                      | 45                  | 48             | 55             | 148          | 51.8                     | 47                  | 45             | 51             | 143          | 51.5                     | 54                  | 27             | 43             | 124          | 51.2                     |
| 50 / 54                      | 44                  | 41             | 55             | 140          | 46.8                     | 42                  | 31             | 44             | 117          | 46.6                     | 32                  | 12             | 25             | 69           | 46.5                     |
| 45 / 49                      | 40                  | 26             | 39             | 104          | 41.9                     | 32                  | 17             | 23             | 72           | 41.4                     | 24                  | 6              | 9              | 40           | 42.0                     |
| 40 / 44                      | 34                  | 13             | 23             | 70           | 37.3                     | 23                  | 7              | 12             | 42           | 36.8                     | 12                  | 3              | 3              | 18           | 37.4                     |
| 35 / 39                      | 21                  | 6              | 8              | 34           | 32.8                     | 13                  | 4              | 5              | 22           | 32.3                     | 3                   | 0              | 1              | 4            | 33.0                     |
| 30 / 34                      | 10                  | 3              | 3              | 16           | 28.2                     | 7                   | 1              | 1              | 8            | 28.0                     | 1                   | 0              | 0              | 1            | 27.5                     |
| 25 / 29                      | 2                   | 1              | 1              | 4            | 23.8                     | 1                   | 0              | 0              | 1            | 24.2                     | 0                   | 0              |                | 0            | 24.6                     |
| 20 / 24                      | 1                   | 0              | 0              | 1            | 17.8                     | 0                   | 0              |                | 0            | 20.5                     |                     |                |                |              |                          |
| 15 / 19                      | 0                   | 0              |                | 0            | 14.0                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 10 / 14                      | 0                   | 0              |                | 0            | 9.0                      |                     |                |                |              |                          |                     |                |                |              |                          |
| 5 / 9                        | 0                   |                |                | 0            | 7.0                      |                     |                |                |              |                          |                     |                |                |              |                          |

**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.

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

Period of Record = 1973 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 |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     | 0              |                | 0            | 70.0                     |                     | 1              |                | 1            | 75.1                     |                     | 6              | 1              | 7            | 76.9                     |
| 90 / 94                      |                     | 2              | 0              | 2            | 68.9                     |                     | 8              | 1              | 9            | 73.4                     | 0                   | 29             | 4              | 34           | 76.4                     |
| 85 / 89                      |                     | 8              | 1              | 9            | 68.8                     | 0                   | 39             | 5              | 45           | 72.5                     | 2                   | 91             | 19             | 112          | 75.2                     |
| 80 / 84                      | 0                   | 31             | 5              | 36           | 68.0                     | 6                   | 97             | 32             | 135          | 70.9                     | 32                  | 80             | 80             | 192          | 73.5                     |
| 75 / 79                      | 5                   | 69             | 26             | 100          | 66.2                     | 52                  | 70             | 96             | 217          | 68.7                     | 126                 | 25             | 107            | 257          | 71.3                     |
| 70 / 74                      | 39                  | 63             | 73             | 175          | 63.9                     | 101                 | 26             | 85             | 211          | 66.0                     | 72                  | 8              | 27             | 108          | 68.6                     |
| 65 / 69                      | 71                  | 44             | 74             | 189          | 60.2                     | 61                  | 5              | 24             | 91           | 61.6                     | 6                   | 1              | 2              | 9            | 64.2                     |
| 60 / 64                      | 58                  | 15             | 39             | 112          | 55.6                     | 22                  | 1              | 4              | 27           | 57.4                     | 1                   | 0              | 0              | 1            | 59.2                     |
| 55 / 59                      | 38                  | 6              | 16             | 61           | 50.9                     | 6                   | 1              | 0              | 7            | 53.3                     | 0                   |                |                | 0            | 55.0                     |
| 50 / 54                      | 21                  | 2              | 5              | 28           | 46.5                     | 0                   |                | 0              | 0            | 46.5                     |                     |                |                |              |                          |
| 45 / 49                      | 6                   | 0              | 1              | 8            | 42.5                     | 0                   |                |                | 0            | 44.0                     |                     |                |                |              |                          |
| 40 / 44                      | 1                   | 0              | 0              | 1            | 37.3                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 35 / 39                      | 0                   |                |                | 0            | 34.0                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 30 / 34                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 25 / 29                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 20 / 24                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 15 / 19                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 10 / 14                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 5 / 9                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

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**Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)****Period of Record = 1973 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 |              |                          |
| 100 / 104                    |                     | 1              | 0              | 1            | 78.2                     |                     | 0              |                | 0            | 79.0                     |                     |                |                |              |                          |
| 95 / 99                      |                     | 12             | 1              | 13           | 77.9                     |                     | 5              | 0              | 5            | 79.5                     |                     | 1              | 0              | 1            | 77.7                     |
| 90 / 94                      | 0                   | 60             | 7              | 67           | 77.7                     |                     | 44             | 3              | 47           | 78.7                     | 0                   | 18             | 1              | 19           | 77.4                     |
| 85 / 89                      | 8                   | 127            | 45             | 181          | 76.8                     | 5                   | 126            | 36             | 167          | 77.3                     | 2                   | 93             | 13             | 109          | 76.1                     |
| 80 / 84                      | 64                  | 37             | 112            | 213          | 75.0                     | 69                  | 57             | 125            | 250          | 75.6                     | 45                  | 87             | 106            | 238          | 74.1                     |
| 75 / 79                      | 142                 | 9              | 73             | 224          | 72.6                     | 138                 | 15             | 75             | 228          | 73.6                     | 130                 | 33             | 95             | 257          | 72.1                     |
| 70 / 74                      | 33                  | 2              | 9              | 44           | 70.1                     | 36                  | 2              | 9              | 47           | 70.7                     | 51                  | 8              | 23             | 82           | 68.7                     |
| 65 / 69                      | 1                   |                | 0              | 1            | 66.1                     | 0                   |                | 0              | 0            | 67.4                     | 8                   | 1              | 2              | 11           | 63.3                     |
| 60 / 64                      |                     |                |                |              |                          |                     |                |                |              |                          | 3                   | 0              | 0              | 3            | 58.6                     |
| 55 / 59                      |                     |                |                |              |                          |                     |                |                |              |                          | 0                   |                |                | 0            | 59.0                     |
| 50 / 54                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 45 / 49                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 40 / 44                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 35 / 39                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 30 / 34                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 25 / 29                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 20 / 24                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 15 / 19                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 10 / 14                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 5 / 9                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

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**Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)****Period of Record = 1973 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 |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 90 / 94                      |                     | 2              | 0              | 2            | 75.7                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 85 / 89                      | 0                   | 22             | 2              | 24           | 74.8                     |                     | 1              |                | 1            | 73.9                     |                     |                |                |              |                          |
| 80 / 84                      | 11                  | 66             | 26             | 102          | 72.6                     | 0                   | 19             | 1              | 20           | 71.6                     |                     | 4              | 0              | 4            | 69.3                     |
| 75 / 79                      | 57                  | 75             | 75             | 207          | 70.0                     | 6                   | 53             | 18             | 76           | 69.4                     |                     | 17             | 2              | 19           | 67.1                     |
| 70 / 74                      | 80                  | 52             | 80             | 212          | 66.0                     | 51                  | 60             | 62             | 174          | 66.3                     | 5                   | 30             | 15             | 51           | 64.9                     |
| 65 / 69                      | 49                  | 23             | 43             | 115          | 60.6                     | 56                  | 46             | 58             | 160          | 61.6                     | 26                  | 44             | 35             | 105          | 61.3                     |
| 60 / 64                      | 29                  | 5              | 17             | 51           | 56.5                     | 44                  | 34             | 43             | 122          | 56.2                     | 46                  | 53             | 56             | 156          | 57.0                     |
| 55 / 59                      | 16                  | 2              | 4              | 22           | 52.1                     | 32                  | 17             | 30             | 79           | 51.0                     | 48                  | 45             | 54             | 148          | 52.1                     |
| 50 / 54                      | 4                   | 1              | 1              | 6            | 47.1                     | 23                  | 7              | 19             | 50           | 46.5                     | 38                  | 29             | 39             | 106          | 47.0                     |
| 45 / 49                      | 2                   | 0              | 0              | 2            | 43.4                     | 19                  | 3              | 8              | 30           | 41.8                     | 34                  | 15             | 28             | 76           | 41.9                     |
| 40 / 44                      | 0                   |                | 0              | 0            | 38.3                     | 8                   | 0              | 1              | 9            | 37.7                     | 24                  | 6              | 13             | 43           | 37.6                     |
| 35 / 39                      |                     |                |                |              |                          | 1                   | 0              |                | 1            | 34.2                     | 15                  | 4              | 5              | 24           | 32.9                     |
| 30 / 34                      |                     |                |                |              |                          | 0                   |                |                | 0            | 29.0                     | 7                   | 1              | 2              | 9            | 28.1                     |
| 25 / 29                      |                     |                |                |              |                          |                     |                |                |              |                          | 2                   | 0              | 0              | 2            | 24.3                     |
| 20 / 24                      |                     |                |                |              |                          |                     |                |                |              |                          | 1                   | 0              | 0              | 1            | 19.2                     |
| 15 / 19                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 10 / 14                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 5 / 9                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

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WMO No. 722066

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

Period of Record = 1973 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 |              |                          |
| 100 / 104                    |                     | 2              | 0              | 2            | 78.4                     |
| 95 / 99                      |                     | 25             | 2              | 27           | 77.8                     |
| 90 / 94                      | 0                   | 163            | 16             | 179          | 77.4                     |
| 85 / 89                      | 18                  | 511            | 121            | 649          | 76.0                     |
| 80 / 84                      | 232                 | 496            | 483            | 1211         | 73.6                     |
| 75 / 79                      | 668                 | 420            | 567            | 1655         | 70.7                     |
| 70 / 74                      | 486                 | 346            | 423            | 1255         | 66.0                     |
| 65 / 69                      | 351                 | 285            | 356            | 992          | 60.8                     |
| 60 / 64                      | 342                 | 241            | 312            | 894          | 56.4                     |
| 55 / 59                      | 281                 | 193            | 258            | 731          | 51.6                     |
| 50 / 54                      | 201                 | 123            | 191            | 516          | 46.7                     |
| 45 / 49                      | 154                 | 69             | 110            | 334          | 41.8                     |
| 40 / 44                      | 101                 | 30             | 54             | 185          | 37.3                     |
| 35 / 39                      | 55                  | 13             | 18             | 86           | 32.7                     |
| 30 / 34                      | 22                  | 4              | 6              | 32           | 28.1                     |
| 25 / 29                      | 6                   | 1              | 1              | 8            | 24.1                     |
| 20 / 24                      | 2                   | 1              | 1              | 4            | 18.5                     |
| 15 / 19                      | 0                   | 0              |                | 0            | 14.0                     |
| 10 / 14                      | 0                   | 0              |                | 0            | 9.0                      |
| 5 / 9                        | 0                   |                |                | 0            | 7.0                      |

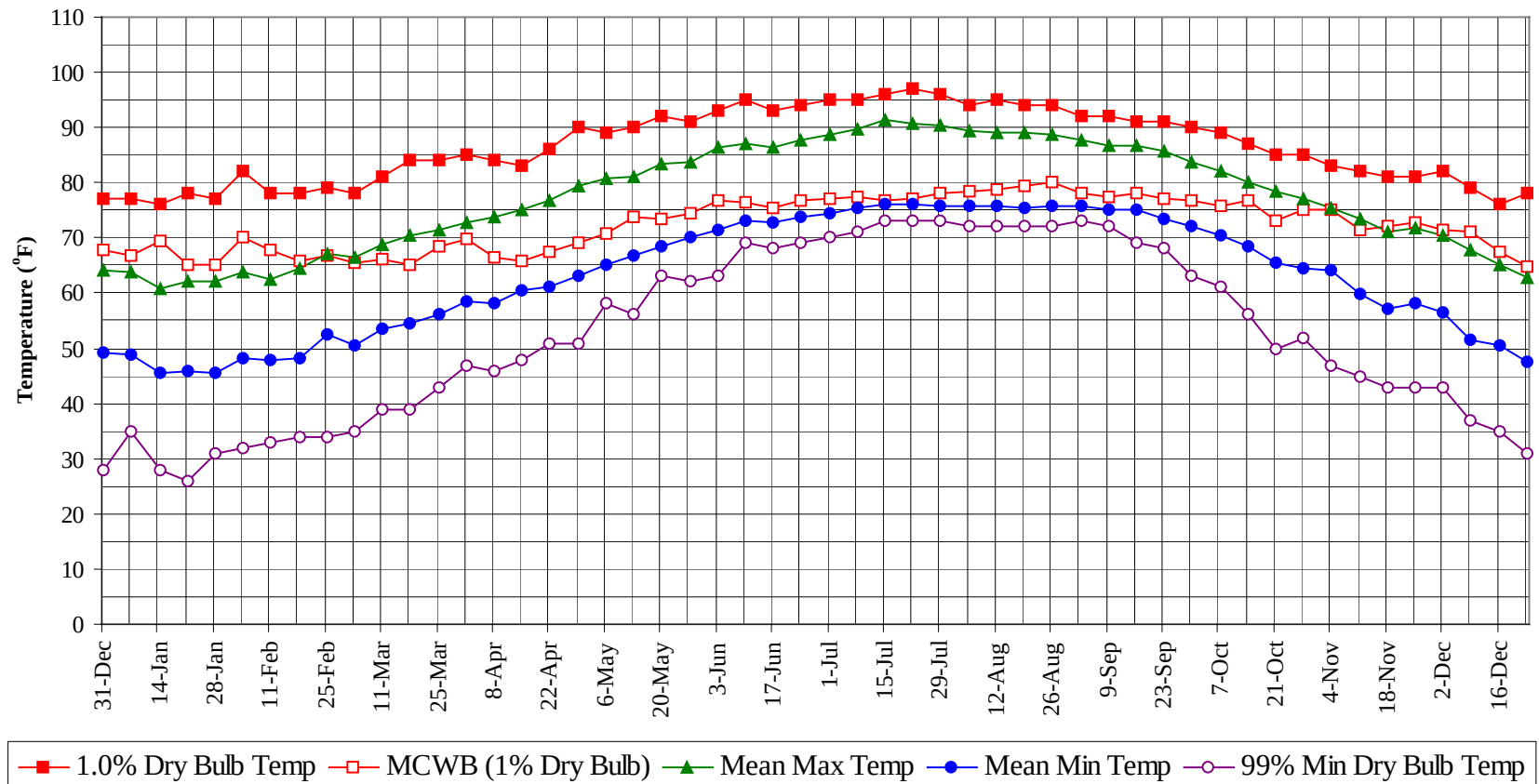
**Caution:** This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity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

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### Annual Summary of Temperatures

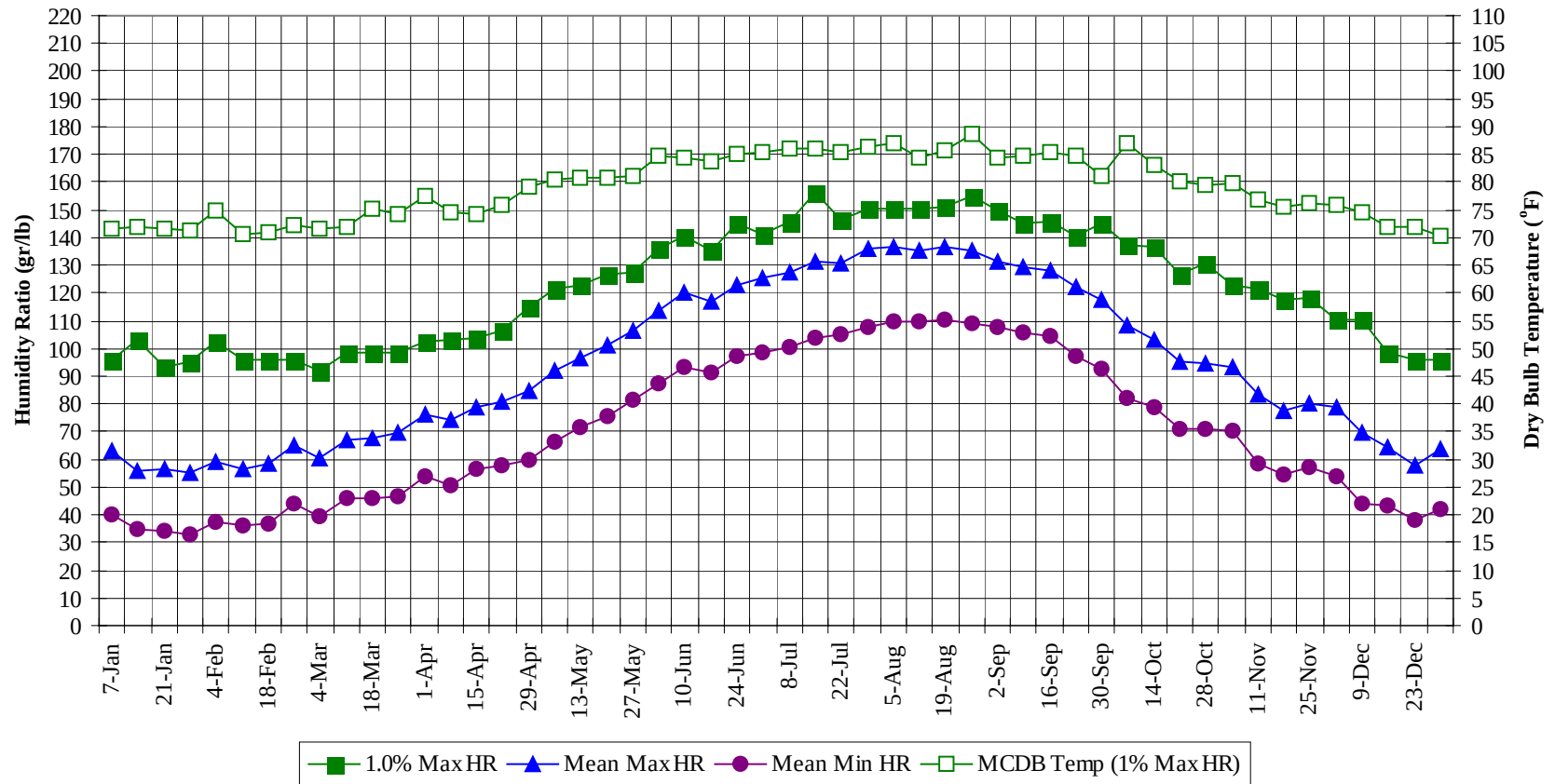


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### Long Term Humidity and Dry Bulb Temperature Summary



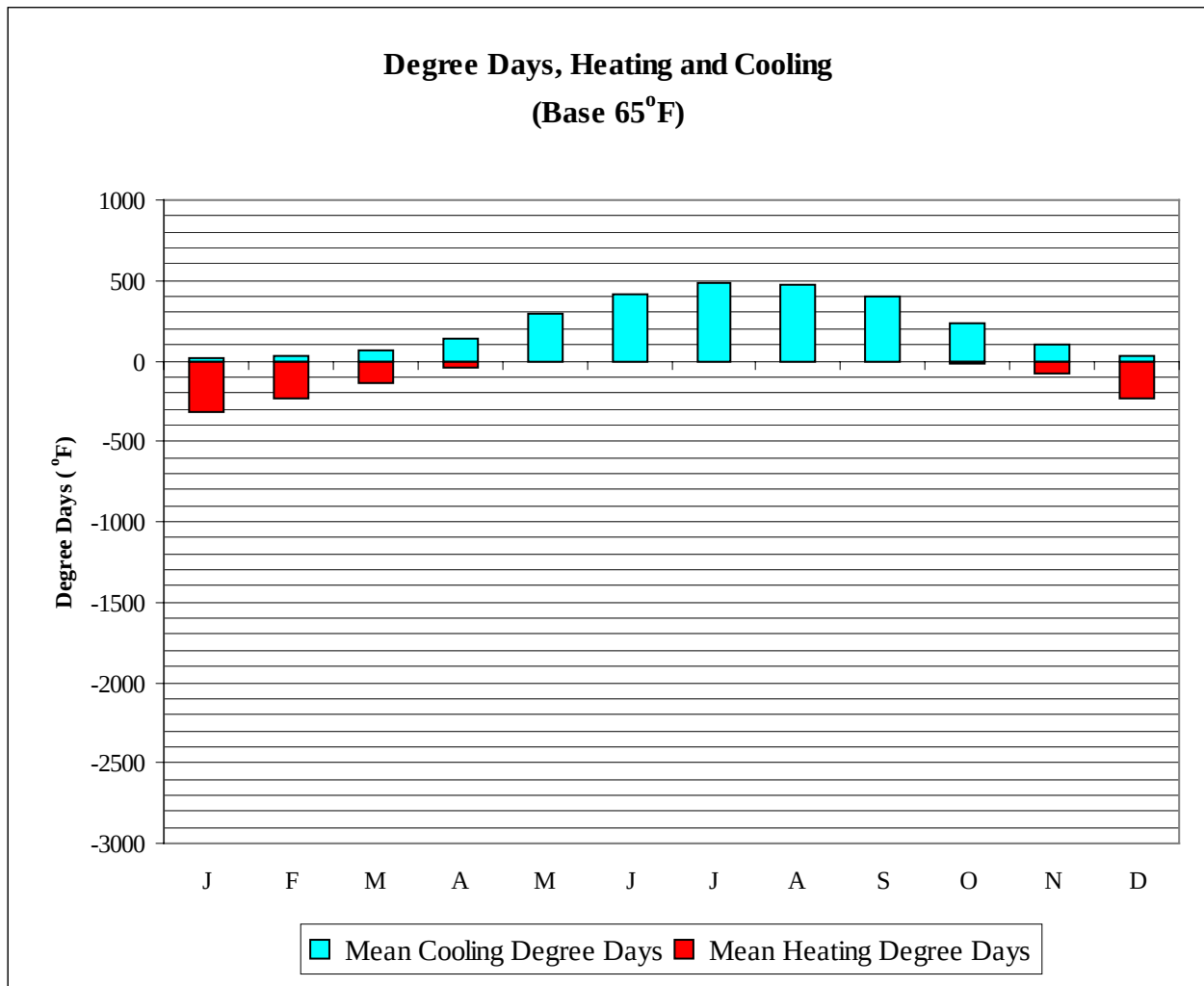
**MAYPORT NAS****FL****WMO No. 722066****Long Term Dry Bulb Temperature and Humidity Summary**

| 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          | 77.0              | 66.8                   | 63.9                  | 48.8                  | 35.0             | 95.9               | 71.7                 | 62.9                   | 40.2                   |
| 14-Jan         | 76.0              | 69.3                   | 60.8                  | 45.7                  | 28.0             | 102.9              | 71.9                 | 55.8                   | 35.0                   |
| 21-Jan         | 78.0              | 65.0                   | 62.1                  | 46.0                  | 26.0             | 93.1               | 71.6                 | 56.4                   | 34.5                   |
| 28-Jan         | 77.0              | 65.1                   | 62.0                  | 45.4                  | 31.0             | 95.2               | 71.1                 | 55.0                   | 32.8                   |
| 4-Feb          | 82.0              | 70.2                   | 63.8                  | 48.3                  | 32.0             | 102.2              | 74.7                 | 58.9                   | 37.3                   |
| 11-Feb         | 78.0              | 67.7                   | 62.5                  | 47.7                  | 33.0             | 95.9               | 70.7                 | 56.4                   | 36.2                   |
| 18-Feb         | 78.0              | 65.8                   | 64.6                  | 48.2                  | 34.0             | 95.9               | 70.9                 | 58.3                   | 36.9                   |
| 25-Feb         | 79.0              | 66.8                   | 67.3                  | 52.6                  | 34.0             | 95.9               | 72.4                 | 64.9                   | 44.0                   |
| 4-Mar          | 78.0              | 65.5                   | 66.3                  | 50.6                  | 35.0             | 91.7               | 71.7                 | 60.2                   | 39.3                   |
| 11-Mar         | 81.0              | 66.1                   | 68.7                  | 53.5                  | 39.0             | 98.7               | 71.9                 | 66.8                   | 45.8                   |
| 18-Mar         | 84.0              | 65.0                   | 70.5                  | 54.6                  | 39.0             | 98.7               | 75.3                 | 67.6                   | 45.7                   |
| 25-Mar         | 84.0              | 68.4                   | 71.4                  | 56.1                  | 43.0             | 98.7               | 74.3                 | 69.7                   | 46.5                   |
| 1-Apr          | 85.0              | 69.8                   | 72.9                  | 58.5                  | 47.0             | 102.2              | 77.6                 | 76.0                   | 53.6                   |
| 8-Apr          | 84.0              | 66.5                   | 73.7                  | 58.1                  | 46.0             | 102.9              | 74.5                 | 74.1                   | 50.5                   |
| 15-Apr         | 83.0              | 65.9                   | 75.0                  | 60.6                  | 48.0             | 103.6              | 74.3                 | 79.1                   | 56.4                   |
| 22-Apr         | 86.0              | 67.5                   | 76.9                  | 61.1                  | 51.0             | 106.4              | 76.0                 | 80.6                   | 57.9                   |
| 29-Apr         | 90.0              | 69.1                   | 79.3                  | 63.0                  | 51.0             | 114.8              | 79.3                 | 84.5                   | 59.8                   |
| 6-May          | 89.0              | 70.9                   | 80.8                  | 65.2                  | 58.0             | 121.8              | 80.5                 | 92.0                   | 66.5                   |
| 13-May         | 90.0              | 73.9                   | 81.2                  | 66.8                  | 56.0             | 122.5              | 80.7                 | 96.4                   | 71.7                   |
| 20-May         | 92.0              | 73.4                   | 83.3                  | 68.6                  | 63.0             | 126.7              | 80.6                 | 100.9                  | 75.9                   |
| 27-May         | 91.0              | 74.3                   | 83.8                  | 70.2                  | 62.0             | 127.4              | 81.0                 | 106.2                  | 81.7                   |
| 3-Jun          | 93.0              | 76.7                   | 86.3                  | 71.6                  | 63.0             | 135.8              | 84.9                 | 113.7                  | 87.1                   |
| 10-Jun         | 95.0              | 76.6                   | 87.0                  | 73.2                  | 69.0             | 140.7              | 84.3                 | 120.2                  | 93.3                   |
| 17-Jun         | 93.0              | 75.4                   | 86.5                  | 72.9                  | 68.0             | 135.1              | 83.7                 | 116.8                  | 91.4                   |
| 24-Jun         | 94.0              | 76.9                   | 87.7                  | 73.9                  | 69.0             | 144.9              | 85.0                 | 122.8                  | 97.5                   |
| 1-Jul          | 95.0              | 77.2                   | 88.6                  | 74.4                  | 70.0             | 141.4              | 85.4                 | 125.2                  | 98.4                   |
| 8-Jul          | 95.0              | 77.4                   | 89.8                  | 75.6                  | 71.0             | 145.6              | 86.1                 | 127.1                  | 100.6                  |
| 15-Jul         | 96.0              | 76.9                   | 91.3                  | 76.0                  | 73.0             | 156.1              | 85.9                 | 131.6                  | 104.1                  |
| 22-Jul         | 97.0              | 77.1                   | 90.6                  | 76.2                  | 73.0             | 146.3              | 85.5                 | 130.7                  | 105.2                  |
| 29-Jul         | 96.0              | 78.3                   | 90.2                  | 75.7                  | 73.0             | 150.5              | 86.4                 | 135.7                  | 107.8                  |
| 5-Aug          | 94.0              | 78.5                   | 89.5                  | 75.7                  | 72.0             | 150.5              | 86.9                 | 136.5                  | 109.8                  |
| 12-Aug         | 95.0              | 78.6                   | 89.2                  | 75.8                  | 72.0             | 150.5              | 84.5                 | 135.6                  | 109.7                  |
| 19-Aug         | 94.0              | 79.4                   | 89.0                  | 75.4                  | 72.0             | 151.2              | 85.9                 | 136.6                  | 110.2                  |
| 26-Aug         | 94.0              | 80.0                   | 88.7                  | 75.6                  | 72.0             | 154.7              | 88.5                 | 135.2                  | 108.8                  |
| 2-Sep          | 92.0              | 78.1                   | 87.7                  | 75.9                  | 73.0             | 149.8              | 84.4                 | 131.6                  | 107.8                  |
| 9-Sep          | 92.0              | 77.6                   | 86.8                  | 75.1                  | 72.0             | 144.9              | 84.8                 | 129.6                  | 105.5                  |
| 16-Sep         | 91.0              | 78.0                   | 86.7                  | 75.3                  | 69.0             | 145.6              | 85.3                 | 127.9                  | 104.1                  |
| 23-Sep         | 91.0              | 77.1                   | 85.8                  | 73.6                  | 68.0             | 140.7              | 84.8                 | 122.1                  | 97.2                   |
| 30-Sep         | 90.0              | 76.8                   | 83.9                  | 72.3                  | 63.0             | 144.9              | 81.0                 | 117.9                  | 92.7                   |
| 7-Oct          | 89.0              | 75.7                   | 82.0                  | 70.5                  | 61.0             | 137.2              | 87.0                 | 108.4                  | 82.3                   |
| 14-Oct         | 87.0              | 76.7                   | 80.1                  | 68.6                  | 56.0             | 136.5              | 83.2                 | 103.3                  | 79.0                   |
| 21-Oct         | 85.0              | 73.0                   | 78.5                  | 65.6                  | 50.0             | 126.7              | 80.0                 | 95.1                   | 71.1                   |
| 28-Oct         | 85.0              | 75.0                   | 77.3                  | 64.5                  | 52.0             | 130.9              | 79.5                 | 94.9                   | 71.2                   |
| 4-Nov          | 83.0              | 75.1                   | 75.6                  | 64.2                  | 47.0             | 122.5              | 79.8                 | 93.1                   | 70.1                   |
| 11-Nov         | 82.0              | 71.5                   | 73.5                  | 59.8                  | 45.0             | 121.8              | 77.0                 | 83.3                   | 58.3                   |
| 18-Nov         | 81.0              | 72.3                   | 71.2                  | 57.1                  | 43.0             | 117.6              | 75.6                 | 77.8                   | 54.5                   |
| 25-Nov         | 81.0              | 72.7                   | 71.6                  | 58.1                  | 43.0             | 118.3              | 76.3                 | 80.4                   | 56.9                   |
| 2-Dec          | 82.0              | 71.6                   | 70.5                  | 56.5                  | 43.0             | 110.6              | 75.7                 | 78.5                   | 54.0                   |
| 9-Dec          | 79.0              | 71.1                   | 67.8                  | 51.7                  | 37.0             | 110.6              | 74.7                 | 69.6                   | 43.8                   |
| 16-Dec         | 76.0              | 67.4                   | 65.0                  | 50.5                  | 35.0             | 98.7               | 72.0                 | 64.5                   | 43.2                   |
| 23-Dec         | 78.0              | 65.0                   | 62.9                  | 47.7                  | 31.0             | 95.9               | 71.9                 | 57.7                   | 38.1                   |
| 31-Dec         | 77.0              | 67.9                   | 64.0                  | 49.3                  | 28.0             | 95.9               | 70.2                 | 63.7                   | 42.1                   |

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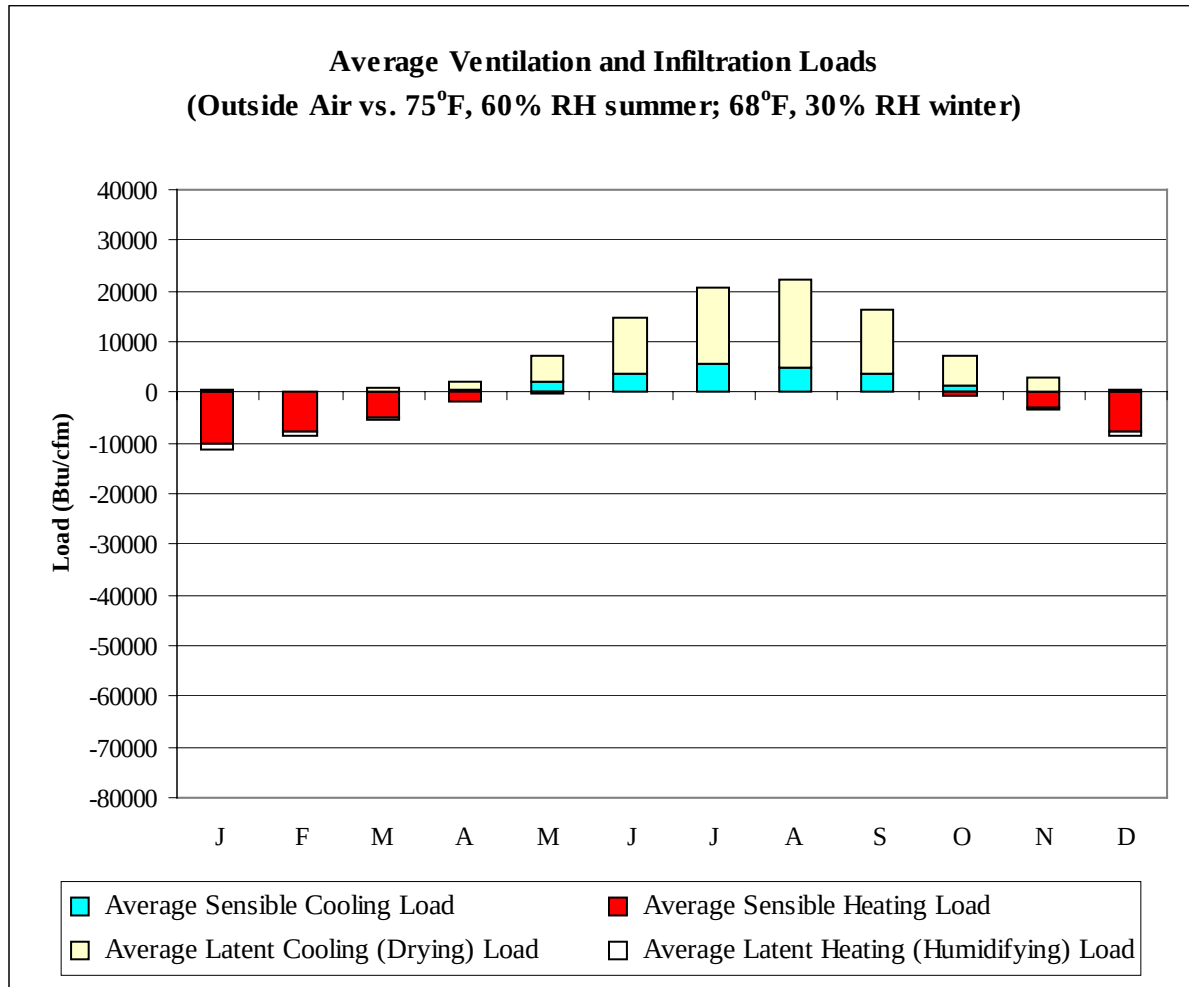


|     | Mean Cooling<br>Degree Days (°F) | Mean Heating<br>Degree Days (°F) |
|-----|----------------------------------|----------------------------------|
| JAN | 20                               | 321                              |
| FEB | 26                               | 233                              |
| MAR | 66                               | 134                              |
| APR | 143                              | 44                               |
| MAY | 298                              | 4                                |
| JUN | 409                              | 0                                |
| JUL | 490                              | 0                                |
| AUG | 473                              | 0                                |
| SEP | 400                              | 0                                |
| OCT | 239                              | 16                               |
| NOV | 101                              | 83                               |
| DEC | 30                               | 235                              |
| ANN | 2696                             | 1070                             |

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|     | 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 | 40                            | -10267                        | 312                         | -982                        |
| FEB | 58                            | -7718                         | 229                         | -740                        |
| MAR | 222                           | -4965                         | 549                         | -288                        |
| APR | 536                           | -1946                         | 1511                        | -82                         |
| MAY | 1944                          | -263                          | 5257                        | 0                           |
| JUN | 3836                          | -11                           | 10923                       | 0                           |
| JUL | 5576                          | 0                             | 15011                       | 0                           |
| AUG | 5064                          | 0                             | 17012                       | 0                           |
| SEP | 3669                          | -22                           | 12630                       | 0                           |
| OCT | 1271                          | -768                          | 5874                        | -9                          |
| NOV | 228                           | -3163                         | 2516                        | -161                        |
| DEC | 44                            | -7833                         | 531                         | -595                        |
| ANN | 22488                         | -36956                        | 72355                       | -2857                       |

## Average Annual Solar Radiation – Nearest Available Site

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

City: JACKSONVILLE  
 State: FL  
 WBAN No: 13889  
 Lat(N): 30.5  
 Long(W): 81.7  
 Elev(ft): 30

Stn Type: Secondary  
 SHADING GEOMETRY IN DIMENSIONLESS UNITS  
 Window: 1  
 Overhang: 0.897  
 Vert Gap: 0.651

| 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  | 920  | 1160 | 1500 | 1860 | 1940 | 1900 | 1850 | 1710 | 1470 | 1250 | 1010 | 850  | 1450 |
|                                                                               | Std Dev | 68   | 90   | 99   | 115  | 131  | 123  | 99   | 97   | 129  | 97   | 83   | 73   | 37   |
|                                                                               | Minimum | 820  | 1020 | 1280 | 1630 | 1570 | 1670 | 1550 | 1480 | 1140 | 1060 | 790  | 690  | 1380 |
|                                                                               | Maximum | 1100 | 1350 | 1640 | 2180 | 2250 | 2170 | 2030 | 1870 | 1710 | 1420 | 1190 | 1000 | 1530 |
|                                                                               | Diffuse | 380  | 460  | 580  | 670  | 790  | 870  | 870  | 810  | 710  | 550  | 410  | 360  | 620  |
| Clear Day                                                                     | Global  | 1280 | 1600 | 1990 | 2340 | 2510 | 2550 | 2490 | 2320 | 2020 | 1650 | 1310 | 1160 | 1930 |
| NORTH                                                                         | Global  | 250  | 310  | 380  | 450  | 560  | 610  | 580  | 490  | 410  | 340  | 270  | 240  | 410  |
|                                                                               | Diffuse | 250  | 310  | 380  | 440  | 490  | 520  | 510  | 470  | 410  | 340  | 270  | 240  | 390  |
| Clear Day                                                                     | Global  | 240  | 290  | 360  | 440  | 590  | 690  | 630  | 490  | 390  | 320  | 260  | 230  | 410  |
| EAST                                                                          | Global  | 570  | 700  | 870  | 1040 | 1050 | 1030 | 1030 | 980  | 860  | 760  | 620  | 530  | 840  |
|                                                                               | Diffuse | 310  | 370  | 460  | 550  | 600  | 620  | 620  | 590  | 520  | 430  | 340  | 290  | 470  |
| Clear Day                                                                     | Global  | 850  | 1020 | 1190 | 1320 | 1350 | 1340 | 1300 | 1250 | 1150 | 1010 | 850  | 780  | 1120 |
| SOUTH                                                                         | Global  | 1200 | 1190 | 1110 | 910  | 670  | 580  | 610  | 740  | 920  | 1130 | 1230 | 1170 | 950  |
|                                                                               | Diffuse | 410  | 450  | 510  | 530  | 520  | 520  | 520  | 540  | 540  | 510  | 440  | 390  | 490  |
| Clear Day                                                                     | Global  | 1990 | 1890 | 1570 | 1090 | 750  | 620  | 680  | 930  | 1340 | 1710 | 1890 | 1940 | 1360 |
| WEST                                                                          | Global  | 580  | 710  | 870  | 1030 | 1030 | 950  | 910  | 870  | 810  | 740  | 630  | 540  | 810  |
|                                                                               | Diffuse | 310  | 370  | 470  | 550  | 600  | 610  | 600  | 570  | 510  | 430  | 340  | 290  | 470  |
| Clear Day                                                                     | Global  | 850  | 1020 | 1190 | 1320 | 1350 | 1340 | 1300 | 1250 | 1150 | 1010 | 850  | 780  | 1120 |

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

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

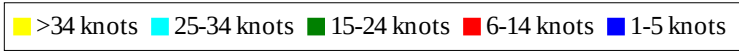
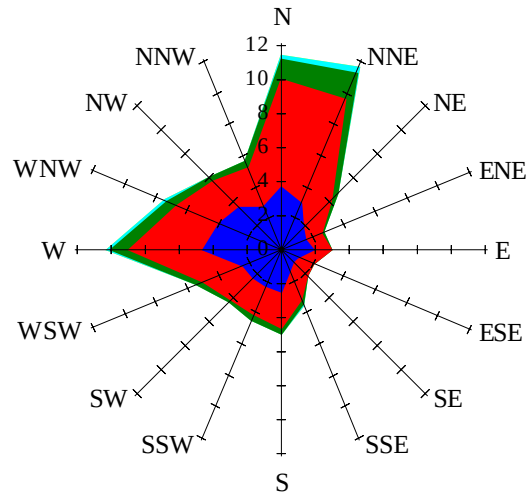
| AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9 |          | Jan | Feb | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct | Nov | Dec | Year |
|-----------------------------------------------------------------------------------------------------|----------|-----|-----|------|------|------|------|------|------|------|-----|-----|-----|------|
| HORIZ                                                                                               | Unshaded | 630 | 820 | 1080 | 1360 | 1420 | 1380 | 1350 | 1240 | 1060 | 890 | 700 | 570 | 1040 |
| NORTH                                                                                               | Unshaded | 180 | 210 | 260  | 310  | 360  | 390  | 370  | 330  | 280  | 240 | 190 | 170 | 270  |
|                                                                                                     | Shaded   | 150 | 190 | 230  | 280  | 310  | 330  | 320  | 290  | 250  | 210 | 170 | 140 | 240  |
| EAST                                                                                                | Unshaded | 400 | 490 | 610  | 740  | 750  | 730  | 730  | 700  | 610  | 540 | 430 | 370 | 590  |
|                                                                                                     | Shaded   | 340 | 420 | 520  | 610  | 610  | 600  | 600  | 580  | 500  | 450 | 370 | 320 | 490  |
| SOUTH                                                                                               | Unshaded | 890 | 850 | 730  | 550  | 400  | 370  | 380  | 450  | 590  | 780 | 900 | 870 | 650  |
|                                                                                                     | Shaded   | 840 | 690 | 410  | 320  | 320  | 320  | 320  | 320  | 330  | 560 | 820 | 840 | 510  |
| WEST                                                                                                | Unshaded | 410 | 500 | 620  | 740  | 730  | 670  | 640  | 610  | 570  | 520 | 440 | 370 | 570  |
|                                                                                                     | Shaded   | 350 | 430 | 520  | 610  | 600  | 540  | 520  | 500  | 470  | 440 | 370 | 320 | 470  |

| 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  | 36    | 77   | 92  | 79  | 40  | 34   | 77   | 100 | 99  | 74  |
|                                                                                                                  | M.Cloudy | 21    | 49   | 60  | 52  | 26  | 24   | 55   | 76  | 74  | 48  |
| NORTH                                                                                                            | M.Clear  | 9     | 15   | 16  | 15  | 10  | 23   | 18   | 18  | 18  | 18  |
|                                                                                                                  | M.Cloudy | 9     | 16   | 18  | 16  | 10  | 15   | 18   | 19  | 19  | 17  |
| EAST                                                                                                             | M.Clear  | 75    | 67   | 19  | 15  | 10  | 62   | 76   | 42  | 18  | 17  |
|                                                                                                                  | M.Cloudy | 27    | 38   | 19  | 16  | 10  | 32   | 50   | 34  | 19  | 16  |
| SOUTH                                                                                                            | M.Clear  | 30    | 61   | 73  | 62  | 33  | 11   | 17   | 30  | 29  | 17  |
|                                                                                                                  | M.Cloudy | 14    | 35   | 44  | 38  | 18  | 10   | 17   | 27  | 26  | 16  |
| WEST                                                                                                             | M.Clear  | 9     | 15   | 16  | 62  | 76  | 11   | 17   | 18  | 44  | 75  |
|                                                                                                                  | M.Cloudy | 9     | 16   | 18  | 38  | 35  | 10   | 17   | 19  | 35  | 43  |
| M.Clear                                                                                                          | (% hrs)  | 41    | 42   | 39  | 39  | 38  | 43   | 35   | 29  | 25  | 30  |
|                                                                                                                  |          | Sept  |      |     |     |     | Dec  |      |     |     |     |
|                                                                                                                  |          | 9am   | 11am | 1pm | 3pm | 5pm | 9am  | 11am | 1pm | 3pm | 5pm |
| HORIZ.                                                                                                           | M.Clear  | 20    | 65   | 90  | 86  | 58  | 18   | 52   | 63  | 48  | 13  |
|                                                                                                                  | M.Cloudy | 14    | 45   | 64  | 61  | 38  | 10   | 31   | 38  | 29  | 8   |
| NORTH                                                                                                            | M.Clear  | 8     | 16   | 18  | 18  | 15  | 6    | 11   | 13  | 11  | 5   |
|                                                                                                                  | M.Cloudy | 6     | 15   | 19  | 18  | 14  | 5    | 12   | 14  | 11  | 4   |
| EAST                                                                                                             | M.Clear  | 47    | 73   | 40  | 18  | 15  | 48   | 51   | 13  | 11  | 5   |
|                                                                                                                  | M.Cloudy | 20    | 43   | 31  | 18  | 14  | 14   | 24   | 14  | 11  | 4   |
| SOUTH                                                                                                            | M.Clear  | 12    | 43   | 62  | 59  | 38  | 37   | 80   | 91  | 75  | 29  |
|                                                                                                                  | M.Cloudy | 7     | 29   | 44  | 41  | 24  | 12   | 33   | 41  | 32  | 10  |
| WEST                                                                                                             | M.Clear  | 8     | 16   | 18  | 46  | 72  | 6    | 11   | 16  | 53  | 39  |
|                                                                                                                  | M.Cloudy | 6     | 15   | 19  | 33  | 38  | 5    | 12   | 15  | 25  | 12  |
| M.Clear                                                                                                          | (% hrs)  | 42    | 29   | 24  | 24  | 29  | 37   | 37   | 36  | 37  | 40  |



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

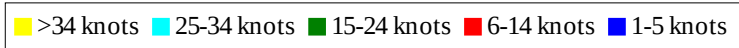
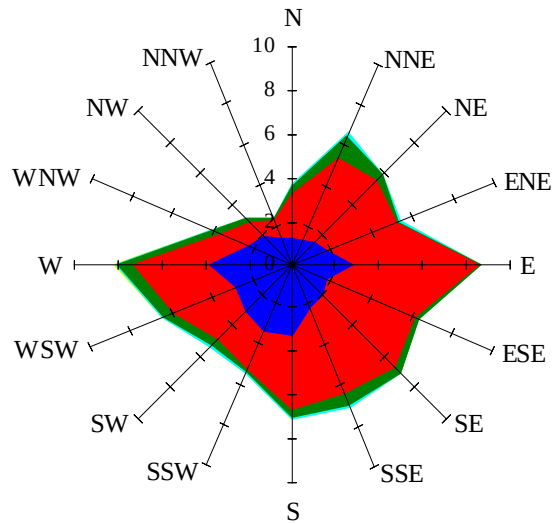
Labels of Percent Frequency on North Axis



Percent Calm = 11.52

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

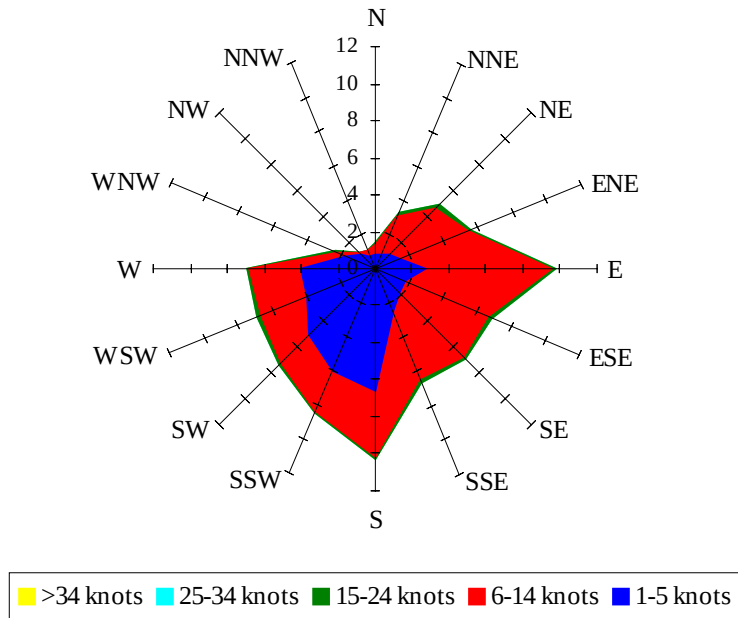
Labels of Percent Frequency on North Axis



Percent Calm = 8.16

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

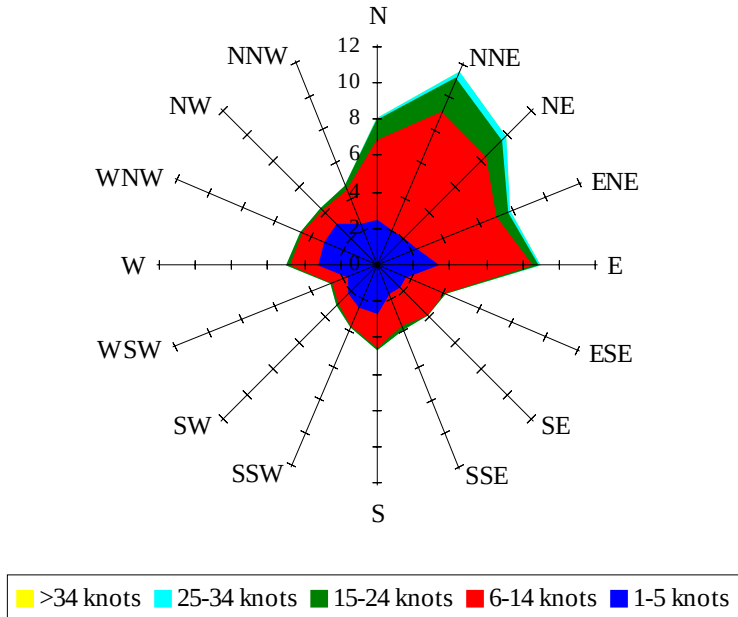
Labels of Percent Frequency on North Axis



Percent Calm = 9.86

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

Labels of Percent Frequency on North Axis



Percent Calm = 10.13