

|                                 |           |                                    |
|---------------------------------|-----------|------------------------------------|
| <b>CHUPUNGYONG</b>              | <b>KO</b> |                                    |
| Latitude = 36.22 N              |           | WMO No. 471350                     |
| Longitude = 128.00 E            |           | Elevation = 817 feet               |
| Period of Record = 1973 to 1996 |           | Average Pressure = 29.11 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                          | 93                | 78                               | 122                     | 3.5                    | S                           |
| 0.4% Occurrence                                  | 90                | 77                               | 121                     | 5.4                    | W                           |
| 1.0% Occurrence                                  | 88                | 75                               | 117                     | 5.1                    | W                           |
| 2.0% Occurrence                                  | 85                | 73                               | 110                     | 5.5                    | W                           |
| Mean Daily Range                                 | 16                | -                                | -                       | -                      | -                           |
| 97.5% Occurrence                                 | 19                | 16                               | 9                       | 9.7                    | W                           |
| 99.0% Occurrence                                 | 16                | 14                               | 8                       | 9.5                    | W                           |
| 99.6% Occurrence                                 | 12                | 10                               | 7                       | 10.3                   | W                           |
| Median of Extreme Lows                           | 7                 | 6                                | 5                       | 10.2                   | W                           |
|                                                  | 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                          | 81                | 88                               | 150                     | 4.6                    | SSE                         |
| 0.4% Occurrence                                  | 79                | 86                               | 140                     | 4.4                    | W                           |
| 1.0% Occurrence                                  | 77                | 84                               | 132                     | 4.6                    | W                           |
| 2.0% Occurrence                                  | 76                | 82                               | 129                     | 4.6                    | W                           |
|                                                  | 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                          | 155               | 85                               | 0.99                    | 4.1                    | WSW                         |
| 0.4% Occurrence                                  | 144               | 84                               | 0.93                    | 4.1                    | W                           |
| 1.0% Occurrence                                  | 137               | 82                               | 0.88                    | 3.8                    | SE                          |
| 2.0% Occurrence                                  | 130               | 80                               | 0.84                    | 4.5                    | W                           |
| <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      |
|                                                  |                   | 8                                | 544                     | 585                    | 1550                        |

### Other Site Data

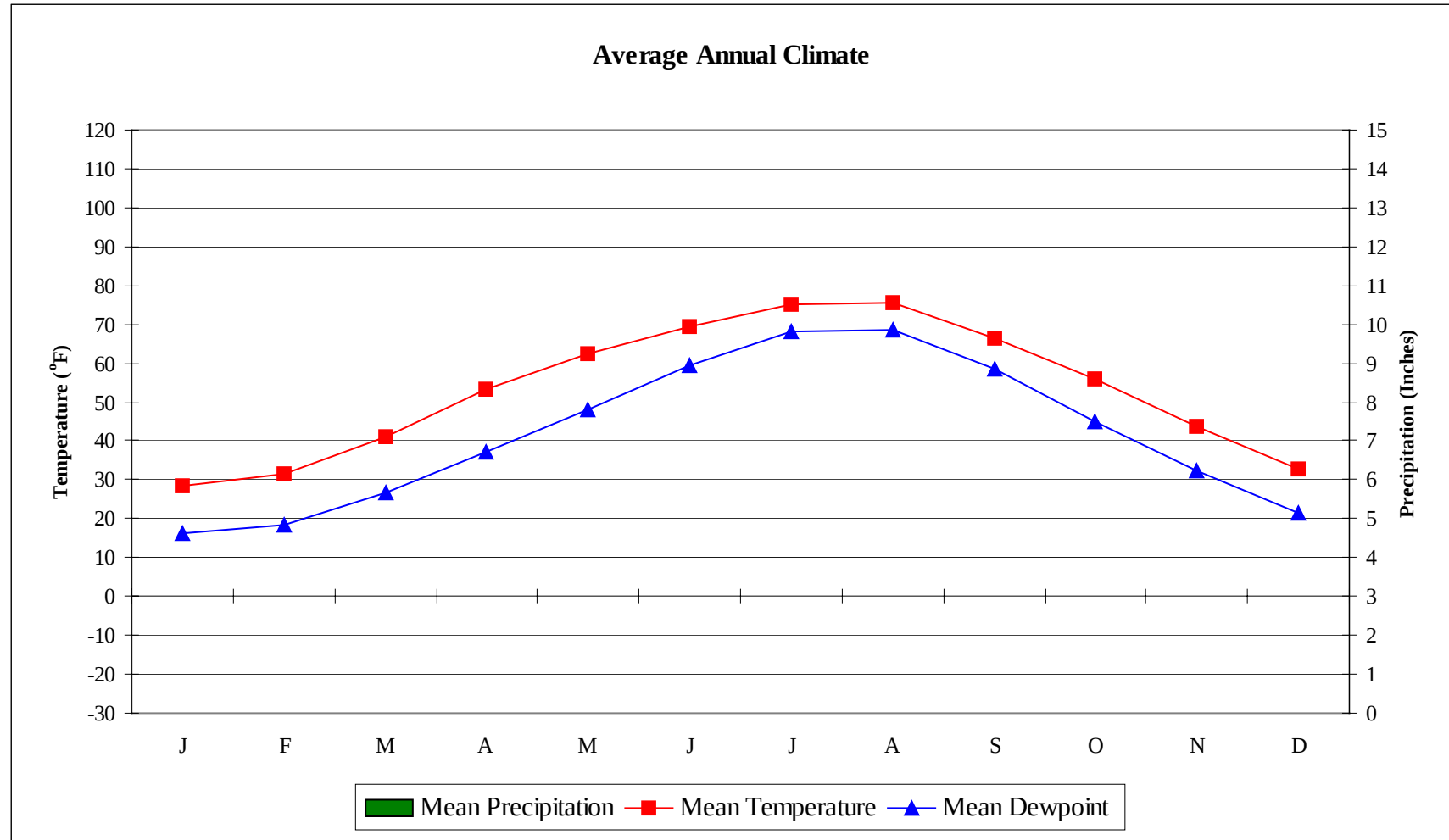
| Weather Region                                      | Rain Rate<br>100 Year Recurrence<br>(in./hr) | Basic Wind Speed<br>3 sec gust @ 33 ft<br>50 Year Recurrence (mph) | Ventilation Cooling Load Index<br>(Ton-hr/cfm/yr) Base 75°F-RH 60%<br>Latent + Sensible |
|-----------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 7                                                   | N/A                                          | N/A                                                                | 1.0 + 0.4                                                                               |
| 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>(#)                                             |
| 55.6                                                | N/A                                          | N/A                                                                | 67                                                                                      |

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

CHUPUNGNYONG

KO

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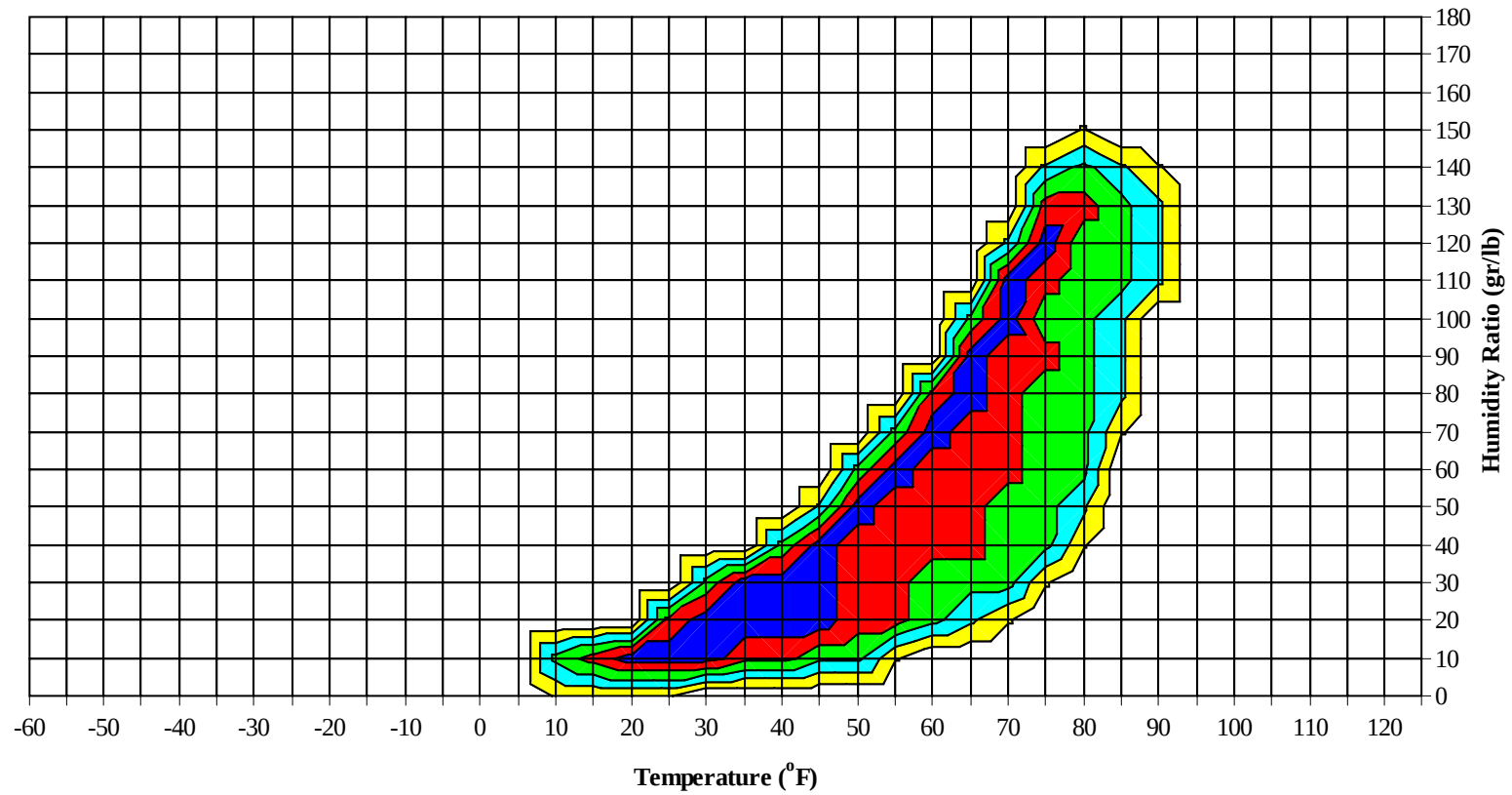
No Precipitation Data Available

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### Long Term Psychrometric Summary



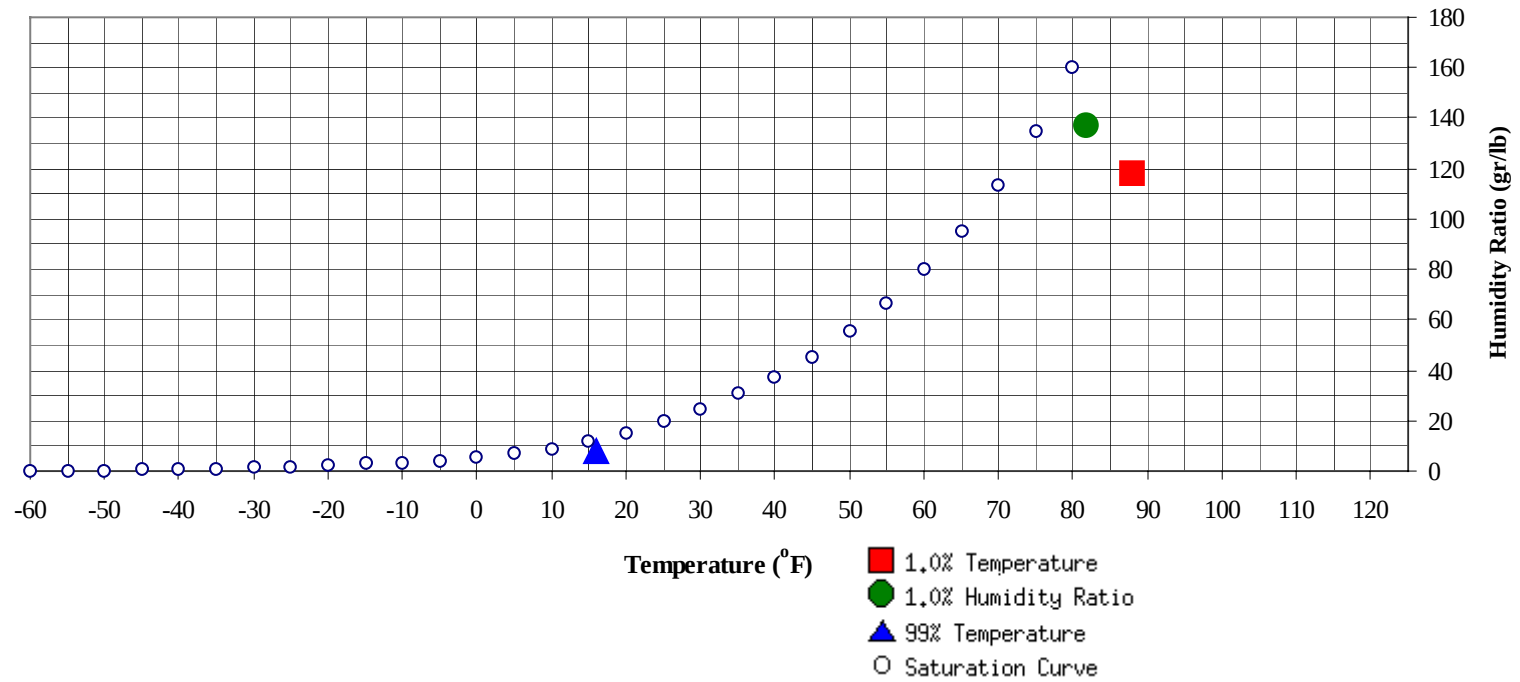
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

CHUPUNGNYONG

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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) |
|--------------|------|-----------------|----------------------|------------------------|---------|--------------|--------------|------------------|----------------------|
|              | 16   | 7.8             | 5.0                  |                        | 137.2   | 81.9         | 77.1         | 75.2             | 41.2                 |

| 1.0% Dry Bulb | (°F) | MCHR<br>(gr/lb) | MCWB<br>(°F) | Enthalpy<br>(btu/lb) |
|---------------|------|-----------------|--------------|----------------------|
|               | 88   | 117.9           | 75.6         | 39.6                 |

CHUPUNGNYONG

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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 |              |                          |
|                              |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 90 / 94                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 85 / 89                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 80 / 84                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 75 / 79                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 70 / 74                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 65 / 69                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 60 / 64                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 55 / 59                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 50 / 54                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 45 / 49                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 40 / 44                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 35 / 39                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 30 / 34                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 25 / 29                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 20 / 24                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 15 / 19                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 10 / 14                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 5 / 9                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 0 / 4                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
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**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.

CHUPUNGNYONG

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WMO No. 471350

**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                  | 09       | 17       |              |                          | 01                  | 09       | 17       |              |                          | 01                  | 09       | 17       |              |                          |
|                              | To<br>08            | To<br>16 | To<br>00 |              |                          | To<br>08            | To<br>16 | To<br>00 |              |                          | To<br>08            | To<br>16 | To<br>00 |              |                          |
| 95 / 99                      |                     |          |          |              |                          |                     |          |          |              |                          | 1 69.9              |          |          |              |                          |
| 90 / 94                      |                     |          |          |              |                          |                     |          |          |              |                          | 10 4 13 68.4        |          |          |              |                          |
| 85 / 89                      |                     |          |          |              |                          | 3 1 4 65.5          |          |          |              |                          | 44 21 65 67.1       |          |          |              |                          |
| 80 / 84                      | 2 0 2 58.9          |          |          |              |                          | 17 8 25 63.1        |          |          |              |                          | 44 21 65 67.1       |          |          |              |                          |
| 75 / 79                      | 11 4 14 58.2        |          |          |              |                          | 36 19 56 60.7       |          |          |              |                          | 1 53 37 92 66.6     |          |          |              |                          |
| 70 / 74                      | 21 11 32 55.0       |          |          |              |                          | 0 44 30 74 58.5     |          |          |              |                          | 20 60 68 149 65.4   |          |          |              |                          |
| 65 / 69                      | 28 18 46 52.4       |          |          |              |                          | 7 45 46 97 57.4     |          |          |              |                          | 63 44 58 166 62.9   |          |          |              |                          |
| 60 / 64                      | 4                   | 39       | 35       | 77           | 51.2                     | 38                  | 51       | 57       | 146          | 55.7                     | 91                  | 24       | 41       | 155          | 59.5                     |
| 55 / 59                      | 18                  | 46       | 51       | 114          | 49.1                     | 66                  | 36       | 50       | 152          | 52.3                     | 55                  | 4        | 10       | 68           | 55.3                     |
| 50 / 54                      | 43                  | 46       | 49       | 138          | 45.9                     | 80                  | 13       | 30       | 124          | 48.6                     | 11                  | 0        | 1        | 12           | 50.8                     |
| 45 / 49                      | 63                  | 30       | 41       | 134          | 42.1                     | 43                  | 3        | 7        | 53           | 44.4                     | 0                   |          |          | 0            | 46.5                     |
| 40 / 44                      | 53                  | 13       | 21       | 87           | 37.6                     | 12                  |          | 0        | 12           | 40.5                     |                     |          |          |              |                          |
| 35 / 39                      | 42                  | 4        | 10       | 56           | 33.8                     | 3                   |          |          | 3            | 36.9                     |                     |          |          |              |                          |
| 30 / 34                      | 16                  | 1        | 2        | 19           | 29.5                     |                     |          |          |              |                          |                     |          |          |              |                          |
| 25 / 29                      | 1                   |          | 0        | 1            | 25.4                     |                     |          |          |              |                          |                     |          |          |              |                          |
| 20 / 24                      |                     |          |          |              |                          |                     |          |          |              |                          |                     |          |          |              |                          |
| 15 / 19                      |                     |          |          |              |                          |                     |          |          |              |                          |                     |          |          |              |                          |
| 10 / 14                      |                     |          |          |              |                          |                     |          |          |              |                          |                     |          |          |              |                          |
| 5 / 9                        |                     |          |          |              |                          |                     |          |          |              |                          |                     |          |          |              |                          |
| 0 / 4                        |                     |          |          |              |                          |                     |          |          |              |                          |                     |          |          |              |                          |

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

CHUPUNGNYONG

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WMO No. 471350

**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 |              |                          |
| 95 / 99                      |                     | 1              | 0              | 1            | 79.3                     |                     | 0              |                | 0            | 79.7                     |                     |                |                |              |                          |
| 90 / 94                      |                     | 13             | 6              | 20           | 77.7                     | 0                   | 13             | 4              | 18           | 76.7                     |                     | 0              |                | 0            | 75.7                     |
| 85 / 89                      |                     | 34             | 15             | 49           | 75.7                     | 0                   | 39             | 15             | 54           | 75.7                     |                     | 3              | 1              | 4            | 73.1                     |
| 80 / 84                      | 1                   | 57             | 38             | 97           | 73.9                     | 3                   | 65             | 40             | 108          | 73.8                     |                     | 20             | 4              | 25           | 69.6                     |
| 75 / 79                      | 40                  | 62             | 76             | 178          | 72.6                     | 36                  | 66             | 79             | 180          | 72.5                     | 1                   | 53             | 25             | 79           | 66.9                     |
| 70 / 74                      | 105                 | 53             | 72             | 230          | 69.2                     | 117                 | 48             | 76             | 241          | 69.5                     | 16                  | 67             | 51             | 134          | 65.1                     |
| 65 / 69                      | 71                  | 22             | 32             | 125          | 65.2                     | 62                  | 16             | 29             | 107          | 65.2                     | 40                  | 49             | 58             | 148          | 62.9                     |
| 60 / 64                      | 25                  | 4              | 8              | 38           | 60.6                     | 28                  | 2              | 4              | 34           | 61.2                     | 70                  | 36             | 63             | 169          | 59.6                     |
| 55 / 59                      | 5                   | 1              | 1              | 7            | 56.0                     | 3                   | 0              |                | 3            | 56.4                     | 67                  | 12             | 28             | 107          | 54.9                     |
| 50 / 54                      |                     |                |                |              |                          |                     |                |                |              |                          | 31                  | 1              | 8              | 40           | 50.4                     |
| 45 / 49                      |                     |                |                |              |                          |                     |                |                |              |                          | 12                  |                | 1              | 13           | 46.3                     |
| 40 / 44                      |                     |                |                |              |                          |                     |                |                |              |                          | 1                   |                |                | 1            | 41.7                     |
| 35 / 39                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 30 / 34                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 25 / 29                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 20 / 24                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 15 / 19                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 10 / 14                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 5 / 9                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 0 / 4                        |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

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

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WMO No. 471350

**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 |              |                          |
| 95 / 99                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 90 / 94                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 85 / 89                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 80 / 84                      |                     | 1              |                | 1            | 62.7                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 75 / 79                      | 0                   | 10             | 1              | 11           | 61.6                     |                     | 0              |                | 0            | 61.0                     |                     |                |                |              |                          |
| 70 / 74                      | 0                   | 34             | 7              | 41           | 58.7                     |                     | 2              |                | 2            | 55.7                     |                     |                |                |              |                          |
| 65 / 69                      | 1                   | 44             | 17             | 63           | 56.5                     |                     | 8              | 1              | 9            | 54.1                     |                     |                |                |              |                          |
| 60 / 64                      | 12                  | 51             | 50             | 113          | 55.1                     | 0                   | 19             | 4              | 23           | 51.9                     |                     | 2              |                | 2            | 50.4                     |
| 55 / 59                      | 47                  | 50             | 64             | 161          | 52.4                     | 4                   | 32             | 17             | 53           | 49.4                     |                     | 5              | 1              | 6            | 46.0                     |
| 50 / 54                      | 58                  | 33             | 56             | 147          | 48.4                     | 19                  | 44             | 40             | 103          | 46.4                     | 1                   | 14             | 4              | 19           | 43.1                     |
| 45 / 49                      | 61                  | 18             | 35             | 113          | 44.0                     | 35                  | 43             | 54             | 132          | 42.2                     | 4                   | 26             | 17             | 46           | 40.7                     |
| 40 / 44                      | 43                  | 5              | 13             | 62           | 39.8                     | 40                  | 33             | 41             | 114          | 38.1                     | 14                  | 36             | 27             | 76           | 36.9                     |
| 35 / 39                      | 19                  | 3              | 4              | 26           | 34.9                     | 59                  | 32             | 43             | 134          | 33.7                     | 35                  | 49             | 55             | 140          | 32.9                     |
| 30 / 34                      | 5                   | 0              | 1              | 6            | 30.9                     | 47                  | 19             | 29             | 95           | 29.0                     | 60                  | 49             | 64             | 173          | 28.6                     |
| 25 / 29                      | 1                   |                |                | 1            | 27.0                     | 27                  | 9              | 10             | 46           | 24.3                     | 62                  | 36             | 44             | 143          | 24.0                     |
| 20 / 24                      |                     |                |                |              |                          | 7                   | 1              | 1              | 9            | 19.7                     | 38                  | 20             | 24             | 82           | 19.6                     |
| 15 / 19                      |                     |                |                |              |                          | 1                   |                | 0              | 1            | 16.3                     | 26                  | 8              | 10             | 43           | 15.6                     |
| 10 / 14                      |                     |                |                |              |                          |                     |                |                |              |                          | 8                   | 3              | 2              | 13           | 11.0                     |
| 5 / 9                        |                     |                |                |              |                          |                     |                |                |              |                          | 0                   | 0              | 1              | 1            | 5.7                      |
| 0 / 4                        |                     |                |                |              |                          |                     |                |                |              |                          | 0                   | 0              |                | 0            | 2.0                      |

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WMO No. 471350

**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 |              |                          |
| 95 / 99                      |                     | 2              | 0              | 2            | 79.4                     |
| 90 / 94                      | 0                   | 27             | 11             | 38           | 77.0                     |
| 85 / 89                      | 0                   | 89             | 35             | 123          | 74.6                     |
| 80 / 84                      | 3                   | 205            | 112            | 320          | 71.2                     |
| 75 / 79                      | 80                  | 290            | 240            | 610          | 69.2                     |
| 70 / 74                      | 260                 | 327            | 317            | 903          | 65.9                     |
| 65 / 69                      | 245                 | 260            | 261            | 766          | 61.3                     |
| 60 / 64                      | 268                 | 238            | 268            | 774          | 56.7                     |
| 55 / 59                      | 267                 | 209            | 236            | 711          | 51.6                     |
| 50 / 54                      | 246                 | 195            | 217            | 658          | 46.7                     |
| 45 / 49                      | 233                 | 196            | 213            | 641          | 41.9                     |
| 40 / 44                      | 210                 | 186            | 196            | 592          | 37.3                     |
| 35 / 39                      | 267                 | 229            | 259            | 755          | 33.1                     |
| 30 / 34                      | 292                 | 199            | 249            | 740          | 28.6                     |
| 25 / 29                      | 248                 | 135            | 165            | 548          | 23.7                     |
| 20 / 24                      | 149                 | 75             | 84             | 308          | 19.3                     |
| 15 / 19                      | 102                 | 41             | 44             | 187          | 15.3                     |
| 10 / 14                      | 40                  | 14             | 14             | 69           | 10.7                     |
| 5 / 9                        | 11                  | 3              | 2              | 15           | 6.1                      |
| 0 / 4                        | 0                   | 0              | 0              | 0            | 2.3                      |

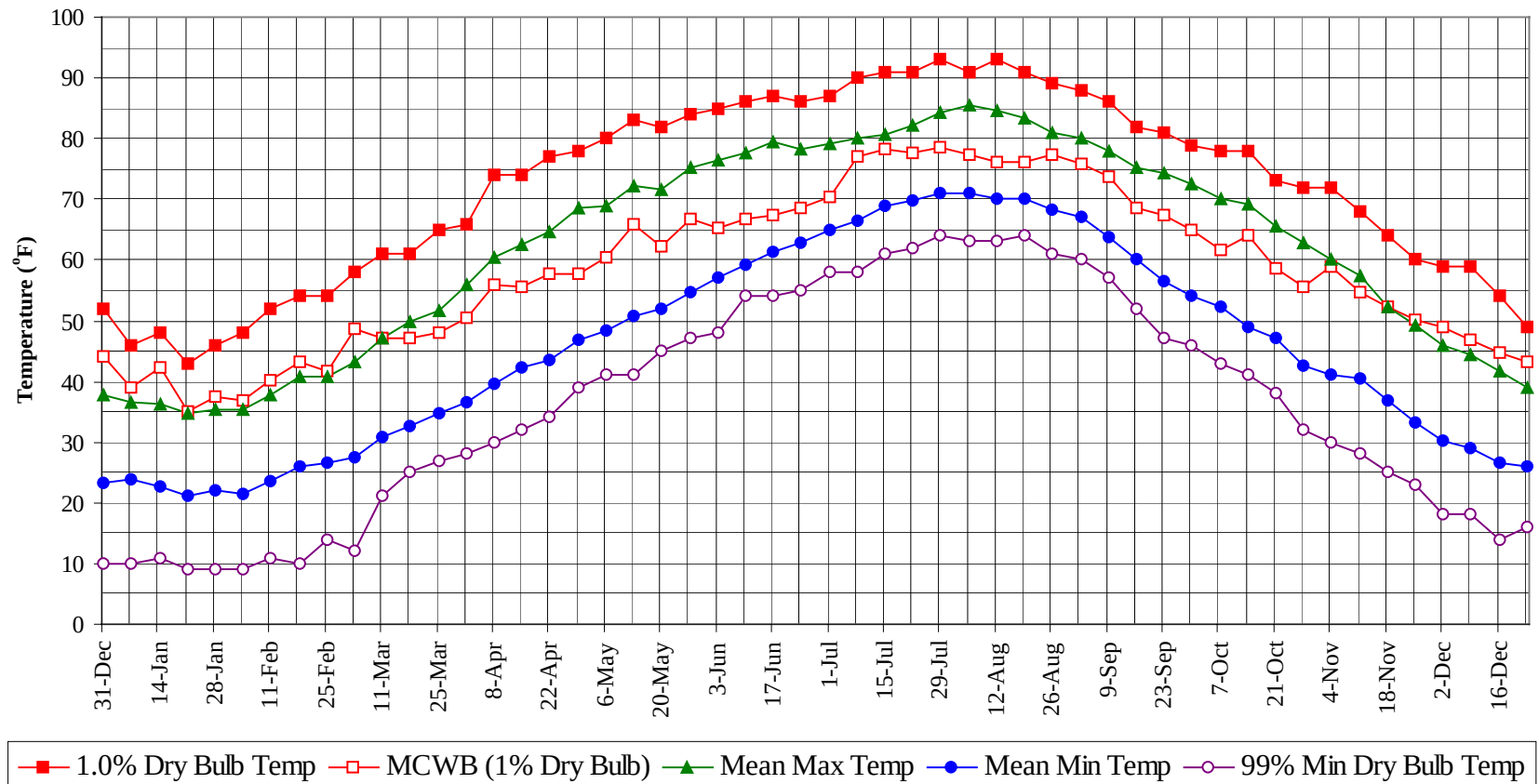
**Caution:** This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity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

CHUPUNGNYONG

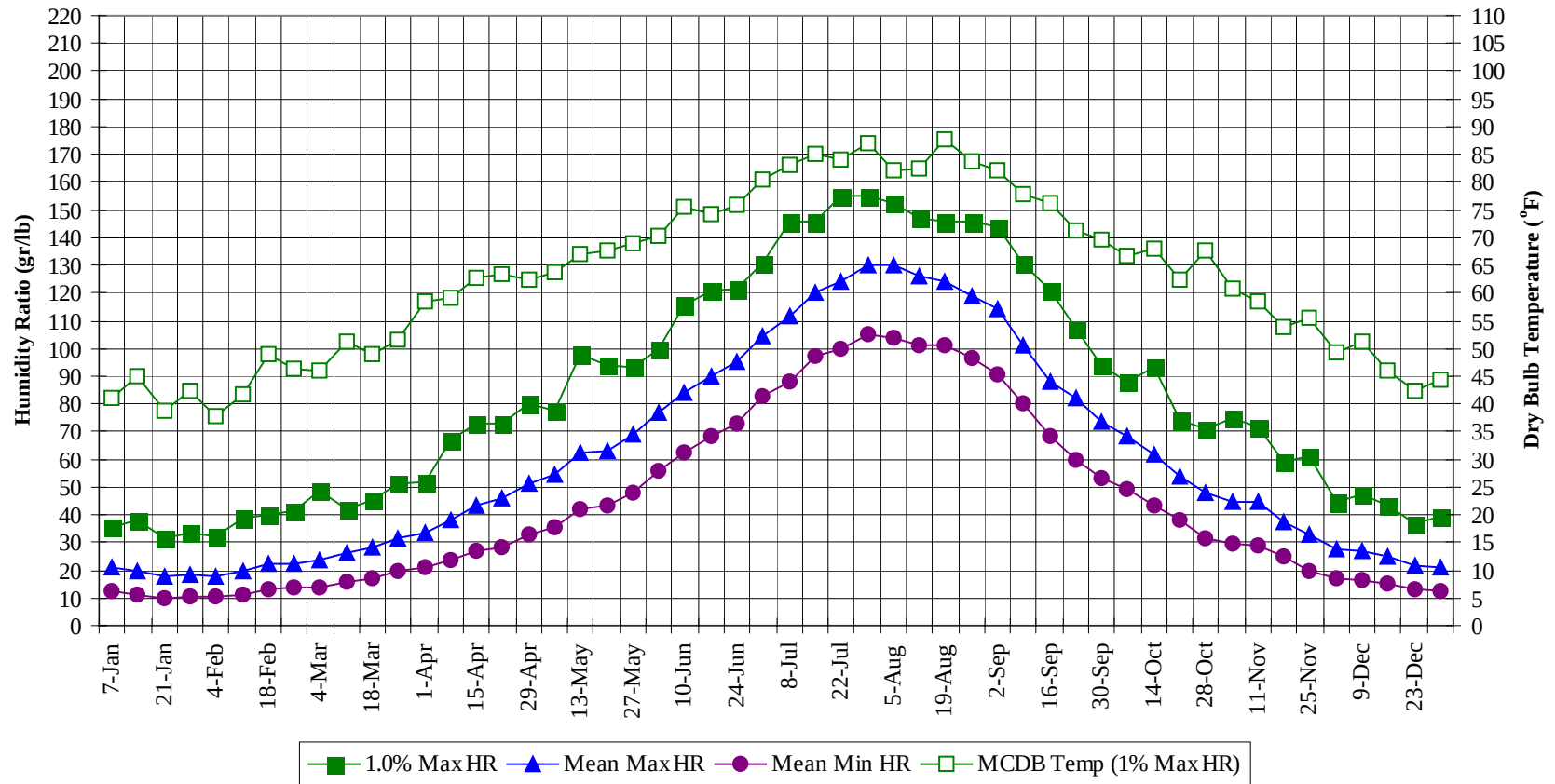
KO

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### Annual Summary of Temperatures



## Long Term Humidity and Dry Bulb Temperature Summary



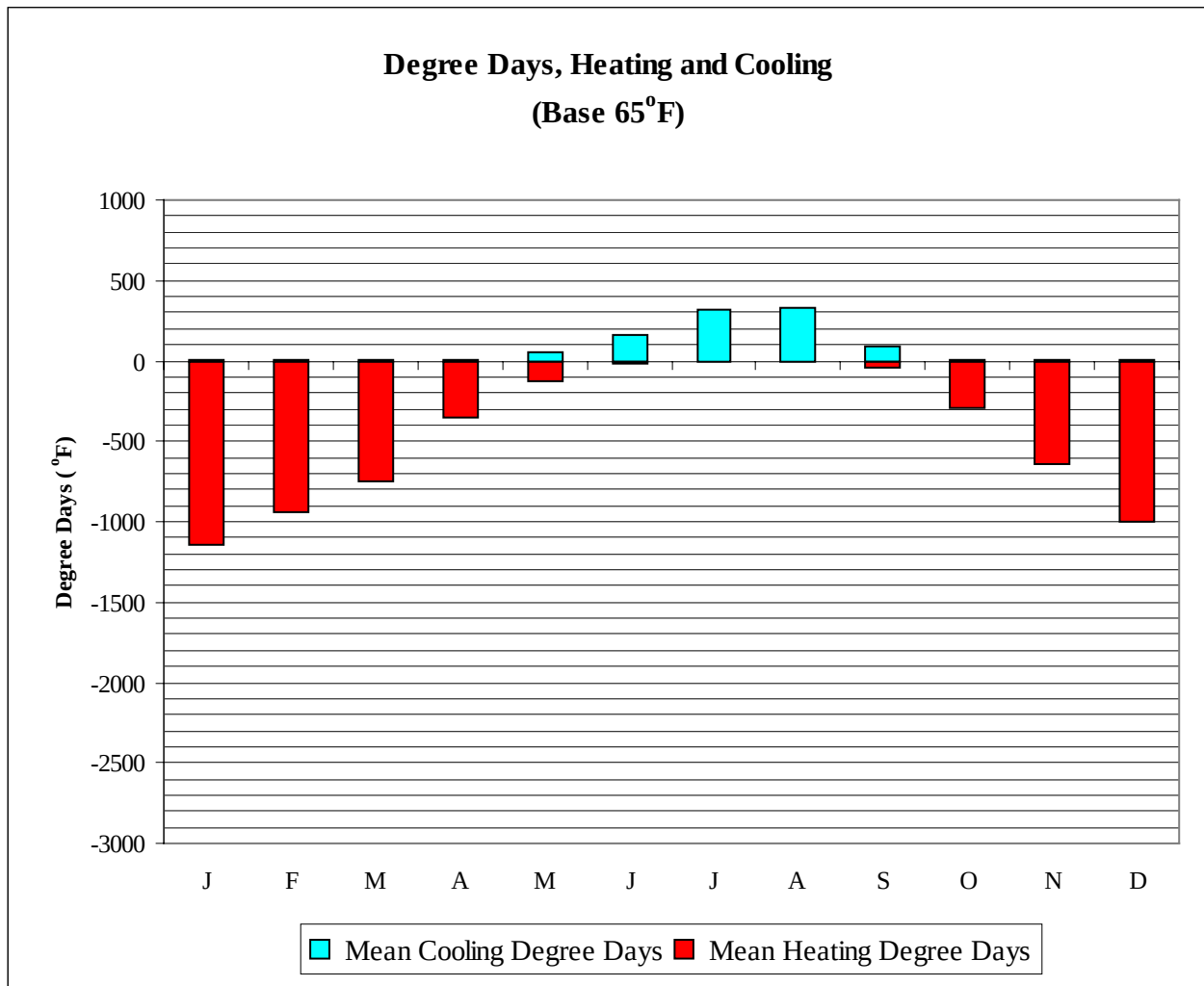
**CHUPUNGNYONG****KO****WMO No. 471350****Long Term Dry Bulb Temperature and Humidity Summary**

| 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       | 46.0           | 38.9                | 36.6               | 23.7               | 10.0          | 35.7            | 40.9              | 20.7                | 12.6                |
| 14-Jan      | 48.0           | 42.3                | 36.3               | 22.8               | 11.0          | 37.8            | 44.9              | 19.6                | 11.3                |
| 21-Jan      | 43.0           | 35.0                | 34.7               | 21.1               | 9.0           | 31.5            | 38.7              | 17.6                | 9.9                 |
| 28-Jan      | 46.0           | 37.5                | 35.5               | 21.9               | 9.0           | 33.6            | 42.5              | 18.1                | 10.5                |
| 4-Feb       | 48.0           | 36.8                | 35.4               | 21.3               | 9.0           | 32.2            | 37.8              | 18.0                | 10.3                |
| 11-Feb      | 52.0           | 40.3                | 37.7               | 23.7               | 11.0          | 38.5            | 41.7              | 19.8                | 11.5                |
| 18-Feb      | 54.0           | 43.2                | 40.9               | 26.0               | 10.0          | 39.9            | 49.0              | 22.1                | 13.3                |
| 25-Feb      | 54.0           | 41.6                | 40.8               | 26.7               | 14.0          | 41.3            | 46.2              | 22.3                | 13.7                |
| 4-Mar       | 58.0           | 48.7                | 43.2               | 27.6               | 12.0          | 48.3            | 46.0              | 23.5                | 14.0                |
| 11-Mar      | 61.0           | 47.1                | 47.2               | 30.7               | 21.0          | 42.0            | 51.3              | 26.0                | 15.9                |
| 18-Mar      | 61.0           | 47.1                | 49.8               | 32.5               | 25.0          | 45.5            | 48.9              | 28.5                | 17.0                |
| 25-Mar      | 65.0           | 48.0                | 51.7               | 34.8               | 27.0          | 51.1            | 51.4              | 31.8                | 19.8                |
| 1-Apr       | 66.0           | 50.6                | 55.9               | 36.7               | 28.0          | 51.8            | 58.4              | 33.3                | 20.8                |
| 8-Apr       | 74.0           | 56.0                | 60.4               | 39.5               | 30.0          | 67.2            | 59.0              | 37.9                | 23.4                |
| 15-Apr      | 74.0           | 55.5                | 62.6               | 42.3               | 32.0          | 72.8            | 62.6              | 43.3                | 27.1                |
| 22-Apr      | 77.0           | 57.8                | 64.8               | 43.4               | 34.0          | 72.8            | 63.3              | 46.1                | 28.3                |
| 29-Apr      | 78.0           | 57.6                | 68.7               | 47.0               | 39.0          | 79.8            | 62.3              | 51.4                | 32.7                |
| 6-May       | 80.0           | 60.3                | 68.8               | 48.4               | 41.0          | 77.7            | 63.8              | 54.5                | 35.3                |
| 13-May      | 83.0           | 65.8                | 72.2               | 50.9               | 41.0          | 98.0            | 67.0              | 62.7                | 41.9                |
| 20-May      | 82.0           | 62.4                | 71.5               | 51.8               | 45.0          | 93.8            | 67.5              | 63.1                | 43.5                |
| 27-May      | 84.0           | 66.8                | 75.2               | 54.7               | 47.0          | 93.1            | 68.9              | 68.9                | 47.8                |
| 3-Jun       | 85.0           | 65.2                | 76.5               | 57.1               | 48.0          | 100.1           | 70.2              | 76.8                | 55.9                |
| 10-Jun      | 86.0           | 66.9                | 77.6               | 59.3               | 54.0          | 115.5           | 75.5              | 83.8                | 62.6                |
| 17-Jun      | 87.0           | 67.5                | 79.4               | 61.3               | 54.0          | 121.1           | 74.2              | 90.0                | 68.1                |
| 24-Jun      | 86.0           | 68.7                | 78.1               | 62.8               | 55.0          | 121.8           | 75.9              | 95.1                | 73.0                |
| 1-Jul       | 87.0           | 70.3                | 79.0               | 65.0               | 58.0          | 130.9           | 80.6              | 104.3               | 82.5                |
| 8-Jul       | 90.0           | 76.9                | 80.1               | 66.5               | 58.0          | 145.6           | 83.2              | 111.7               | 88.0                |
| 15-Jul      | 91.0           | 78.2                | 80.7               | 68.9               | 61.0          | 145.6           | 84.9              | 120.4               | 97.0                |
| 22-Jul      | 91.0           | 77.5                | 82.3               | 69.7               | 62.0          | 154.7           | 84.1              | 124.1               | 99.7                |
| 29-Jul      | 93.0           | 78.6                | 84.2               | 71.1               | 64.0          | 154.7           | 87.0              | 129.7               | 105.0               |
| 5-Aug       | 91.0           | 77.4                | 85.5               | 70.9               | 63.0          | 152.6           | 82.2              | 130.2               | 103.5               |
| 12-Aug      | 93.0           | 76.3                | 84.5               | 70.1               | 63.0          | 147.0           | 82.4              | 126.1               | 101.4               |
| 19-Aug      | 91.0           | 76.1                | 83.4               | 70.0               | 64.0          | 145.6           | 87.7              | 124.3               | 101.2               |
| 26-Aug      | 89.0           | 77.2                | 81.1               | 68.3               | 61.0          | 145.6           | 83.8              | 118.5               | 96.7                |
| 2-Sep       | 88.0           | 75.9                | 80.1               | 66.9               | 60.0          | 143.5           | 82.0              | 114.2               | 90.6                |
| 9-Sep       | 86.0           | 73.9                | 78.0               | 63.7               | 57.0          | 130.9           | 77.8              | 101.4               | 80.4                |
| 16-Sep      | 82.0           | 68.6                | 75.3               | 60.1               | 52.0          | 121.1           | 76.1              | 88.1                | 68.5                |
| 23-Sep      | 81.0           | 67.4                | 74.4               | 56.4               | 47.0          | 107.1           | 71.3              | 81.8                | 60.0                |
| 30-Sep      | 79.0           | 64.9                | 72.4               | 54.1               | 46.0          | 93.8            | 69.5              | 73.3                | 53.0                |
| 7-Oct       | 78.0           | 61.5                | 70.0               | 52.4               | 43.0          | 88.2            | 66.7              | 68.3                | 49.3                |
| 14-Oct      | 78.0           | 64.0                | 69.1               | 48.9               | 41.0          | 93.1            | 68.0              | 62.0                | 43.3                |
| 21-Oct      | 73.0           | 58.7                | 65.5               | 47.1               | 38.0          | 74.2            | 62.3              | 53.9                | 38.1                |
| 28-Oct      | 72.0           | 55.5                | 62.8               | 42.7               | 32.0          | 70.7            | 67.5              | 47.9                | 31.5                |
| 4-Nov       | 72.0           | 58.8                | 60.2               | 41.0               | 30.0          | 74.9            | 60.8              | 45.0                | 29.8                |
| 11-Nov      | 68.0           | 54.8                | 57.4               | 40.4               | 28.0          | 71.4            | 58.3              | 44.6                | 28.9                |
| 18-Nov      | 64.0           | 52.1                | 52.3               | 36.7               | 25.0          | 58.8            | 53.9              | 37.6                | 24.7                |
| 25-Nov      | 60.0           | 50.3                | 49.3               | 33.1               | 23.0          | 60.9            | 55.5              | 32.9                | 19.7                |
| 2-Dec       | 59.0           | 48.8                | 45.8               | 30.2               | 18.0          | 44.8            | 49.3              | 27.8                | 17.0                |
| 9-Dec       | 59.0           | 46.8                | 44.4               | 29.0               | 18.0          | 47.6            | 51.2              | 26.9                | 16.3                |
| 16-Dec      | 54.0           | 44.8                | 41.7               | 26.6               | 14.0          | 43.4            | 46.0              | 24.8                | 14.8                |
| 23-Dec      | 49.0           | 43.3                | 39.0               | 26.0               | 16.0          | 36.8            | 42.4              | 22.0                | 13.2                |
| 31-Dec      | 52.0           | 44.0                | 37.8               | 23.2               | 10.0          | 39.2            | 44.3              | 21.2                | 12.2                |

CHUPUNGNYONG

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WMO No. 471350



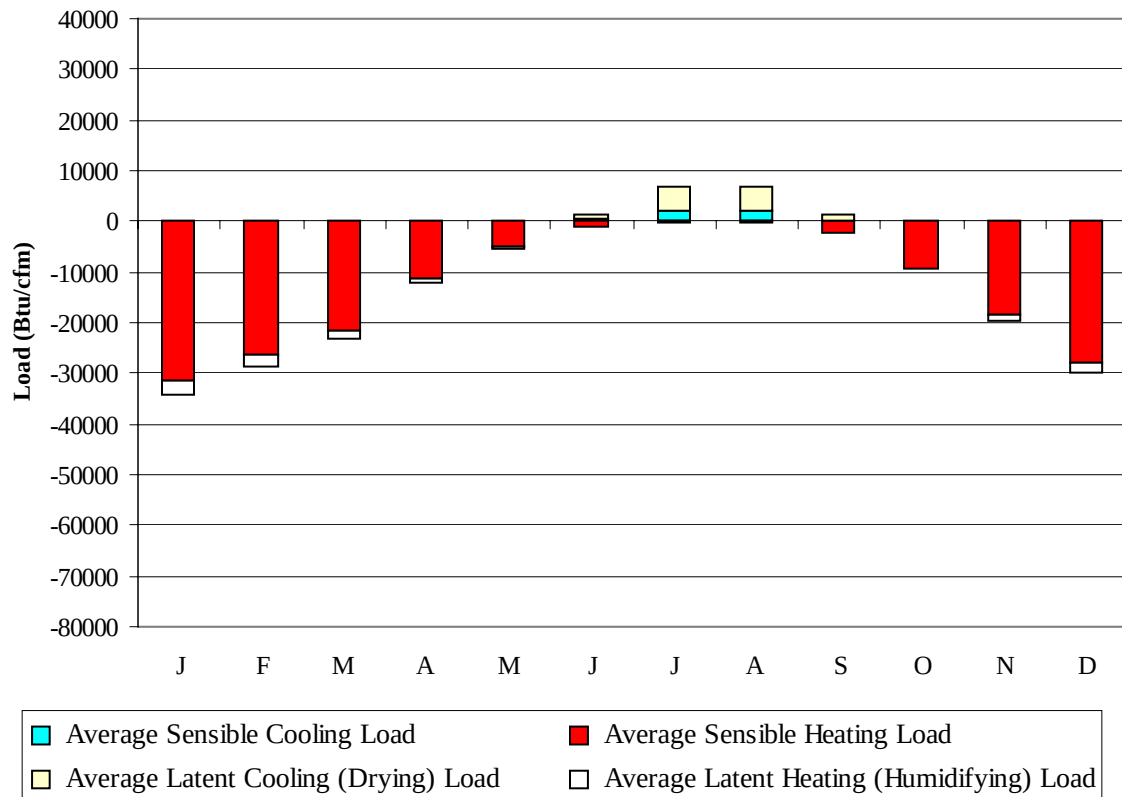
|     | Mean Cooling<br>Degree Days (°F) | Mean Heating<br>Degree Days (°F) |
|-----|----------------------------------|----------------------------------|
| JAN | 0                                | 1138                             |
| FEB | 0                                | 944                              |
| MAR | 0                                | 749                              |
| APR | 8                                | 358                              |
| MAY | 48                               | 131                              |
| JUN | 156                              | 18                               |
| JUL | 316                              | 3                                |
| AUG | 329                              | 1                                |
| SEP | 94                               | 47                               |
| OCT | 9                                | 293                              |
| NOV | 0                                | 644                              |
| DEC | 0                                | 998                              |
| ANN | 961                              | 5324                             |

CHUPUNGNYONG

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WMO No. 471350

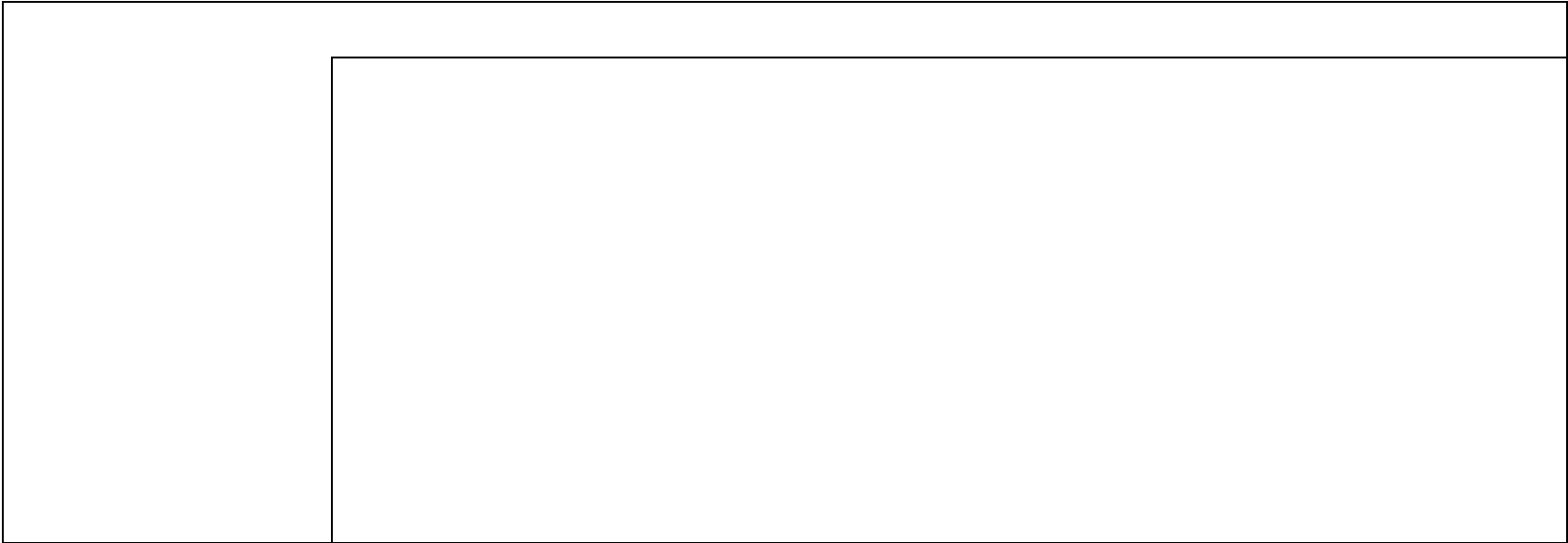
**Average Ventilation and Infiltration Loads**  
**(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)**



|     | Average Sensible<br>Cooling Load | Average Sensible<br>Heating Load | Average Latent<br>Cooling Load | Average Latent<br>Heating Load |
|-----|----------------------------------|----------------------------------|--------------------------------|--------------------------------|
|     | (Btu/cfm)                        | (Btu/cfm)                        | (Btu/cfm)                      | (Btu/cfm)                      |
| JAN | 0                                | -31515                           | 0                              | -2763                          |
| FEB | 0                                | -26333                           | 0                              | -2300                          |
| MAR | 0                                | -21472                           | 0                              | -1559                          |
| APR | 12                               | -11418                           | 3                              | -588                           |
| MAY | 115                              | -5155                            | 73                             | -68                            |
| JUN | 383                              | -1055                            | 990                            | -1                             |
| JUL | 2011                             | -218                             | 4639                           | 0                              |
| AUG | 2112                             | -122                             | 4766                           | 0                              |
| SEP | 207                              | -2227                            | 989                            | -2                             |
| OCT | 8                                | -9377                            | 19                             | -158                           |
| NOV | 0                                | -18565                           | 0                              | -958                           |
| DEC | 0                                | -27851                           | 0                              | -2168                          |
| ANN | 4848                             | -155308                          | 11479                          | -10565                         |

**Average Annual Solar Radiation – Nearest Available Site**  
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation  
Data Available



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

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

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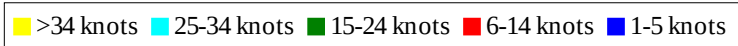
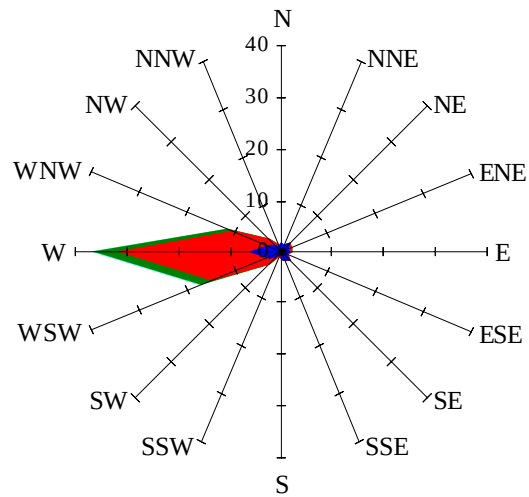
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### Wind Summary - December, January, and February

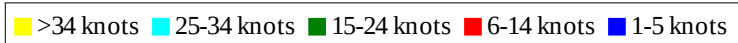
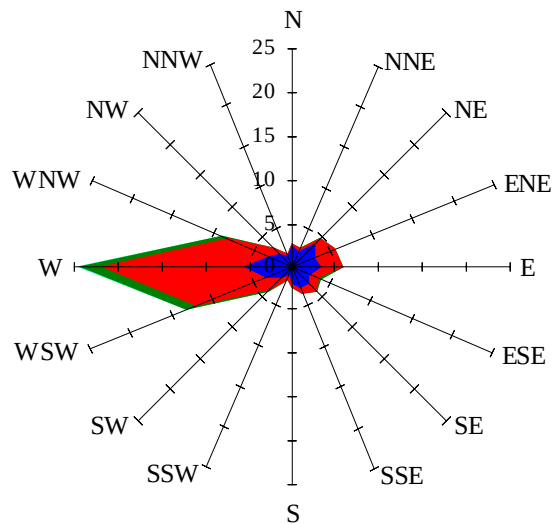
Labels of Percent Frequency on North Axis



Percent Calm = 11.73

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

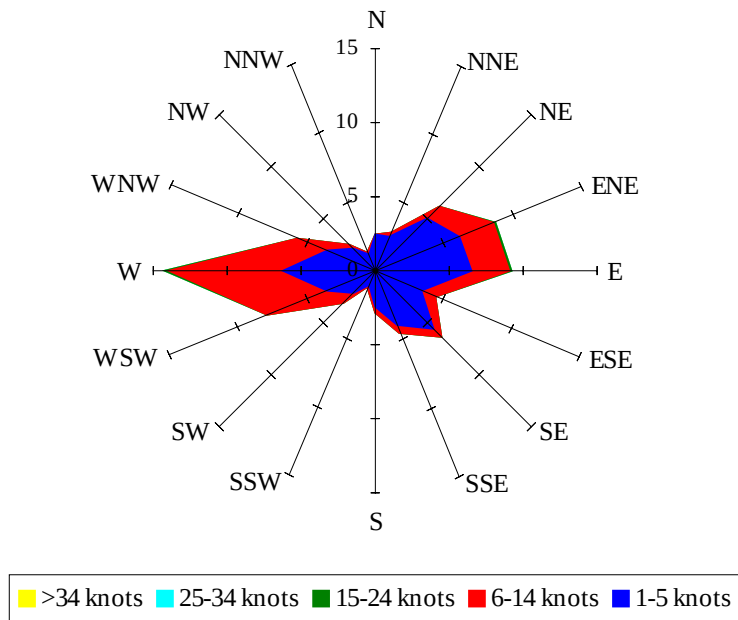
Labels of Percent Frequency on North Axis



Percent Calm = 11.16

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

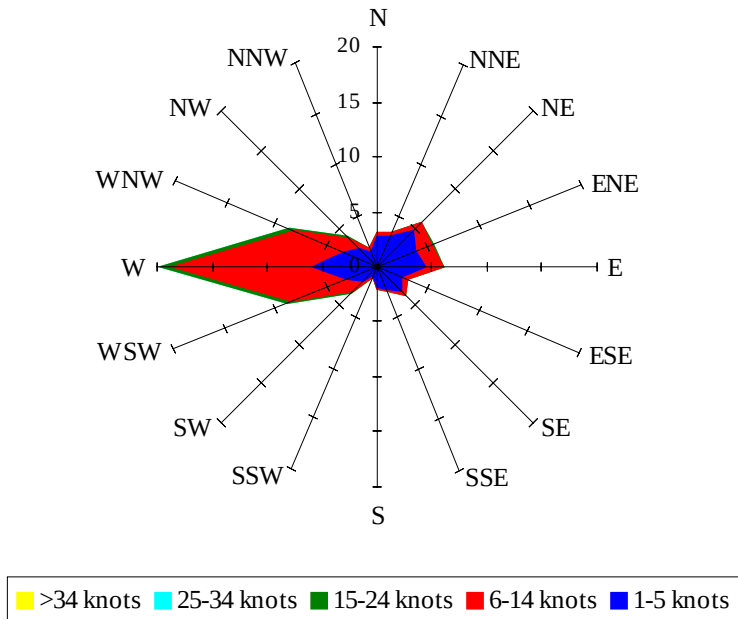
Labels of Percent Frequency on North Axis



Percent Calm = 16.56

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

Labels of Percent Frequency on North Axis



Percent Calm = 19.00