

**ADELAIDE AU**

Latitude = 34.90 S

Longitude = 138.52 E

Period of Record = 1973 to 1996

WMO No. 946720

Elevation = 13 feet

Average Pressure = 29.99 inches Hg

**Design Criteria Data**

|                                                  | <b>Design Value</b> | Mean Coincident (Average) Values |                         |                        |                             |
|--------------------------------------------------|---------------------|----------------------------------|-------------------------|------------------------|-----------------------------|
|                                                  |                     | Wet Bulb Temperature (°F)        | Humidity Ratio (gr/lb)  | Wind Speed (mph)       | Prevailing Direction (NSEW) |
| <b>Dry Bulb Temperature (T)</b>                  | <b>(°F)</b>         |                                  |                         |                        |                             |
| Median of Extreme Highs                          | 104                 | 67                               | 43                      | 13.9                   | NNW                         |
| 0.4% Occurrence                                  | 97                  | 65                               | 43                      | 13.0                   | NNW                         |
| 1.0% Occurrence                                  | 91                  | 64                               | 48                      | 11.2                   | SW                          |
| 2.0% Occurrence                                  | 88                  | 64                               | 49                      | 11.2                   | SW                          |
| Mean Daily Range                                 | 14                  | -                                | -                       | -                      | -                           |
| 97.5% Occurrence                                 | 44                  | 43                               | 37                      | 3.2                    | NE                          |
| 99.0% Occurrence                                 | 41                  | 40                               | 34                      | 2.6                    | NE                          |
| 99.6% Occurrence                                 | 39                  | 38                               | 31                      | 2.2                    | NE                          |
| Median of Extreme Lows                           | 36                  | 36                               | 29                      | 1.9                    | NE                          |
|                                                  | <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                          | 73                  | 86                               | 99                      | 10.1                   | SW                          |
| 0.4% Occurrence                                  | 70                  | 84                               | 86                      | 9.9                    | SW                          |
| 1.0% Occurrence                                  | 68                  | 82                               | 78                      | 10.1                   | SW                          |
| 2.0% Occurrence                                  | 67                  | 81                               | 75                      | 10.1                   | SW                          |
|                                                  | <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                          | 112                 | 77                               | 0.74                    | 9.7                    | ENE                         |
| 0.4% Occurrence                                  | 97                  | 75                               | 0.65                    | 8.9                    | SW                          |
| 1.0% Occurrence                                  | 90                  | 73                               | 0.61                    | 8.7                    | SW                          |
| 2.0% Occurrence                                  | 81                  | 72                               | 0.54                    | 10.2                   | SW                          |
| <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      |
|                                                  |                     | 78                               | 559                     | 6                      | 187                         |

**Other Site Data**

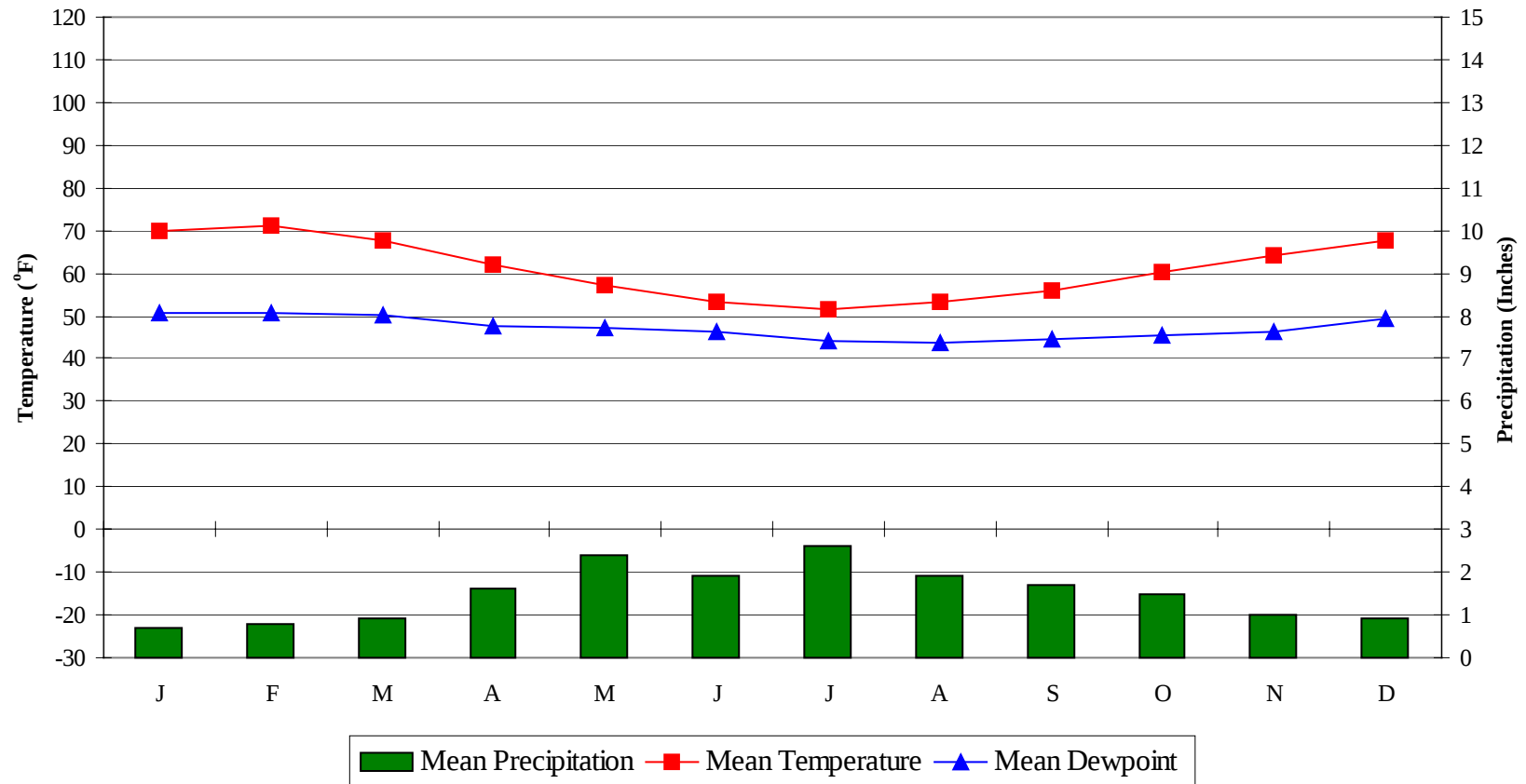
| Weather Region                                   | Rain Rate<br>100 Year Recurrence<br>(in./hr) | Basic Wind Speed<br>3 sec gust @ 33 ft<br>50 Year Recurrence (mph) | Ventilation Cooling Load Index<br>(Ton-hr/cfm/yr) Base 75°F-RH 60%<br>Latent + Sensible |
|--------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 8                                                | N/A                                          | N/A                                                                | 0.0 + 0.5                                                                               |
| Ground Water Temperature (°F)<br>50 Foot Depth * | Frost Depth<br>50 Year Recurrence<br>(in.)   | Ground Snow Load<br>50 Year Recurrence<br>(lb/ft <sup>2</sup> )    | Average Annual<br>Freeze-Thaw Cycles<br>(#)                                             |
| 63.7                                             | N/A                                          | N/A                                                                | 0                                                                                       |

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

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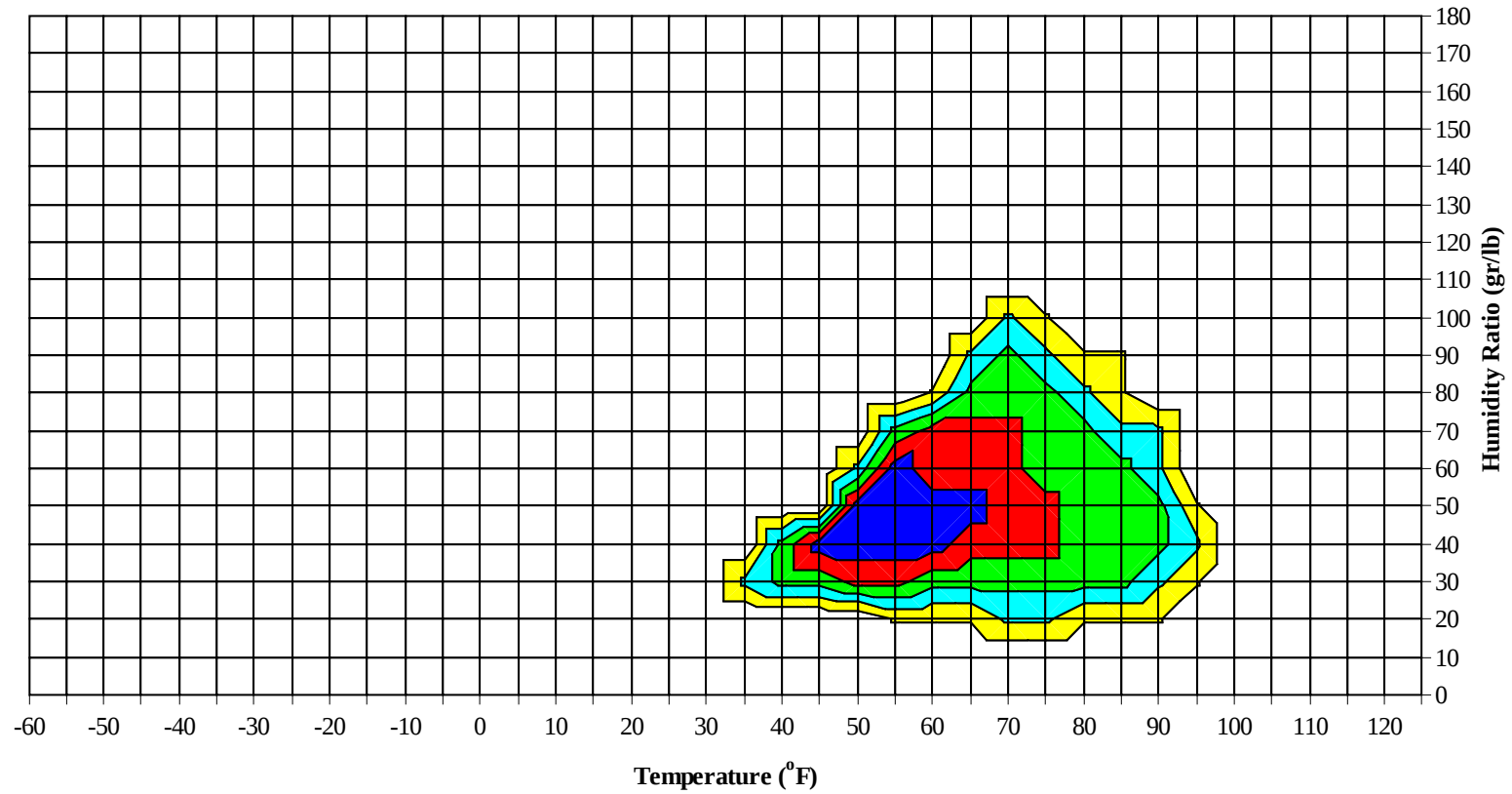
### Average Annual Climate



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### Long Term Psychrometric Summary

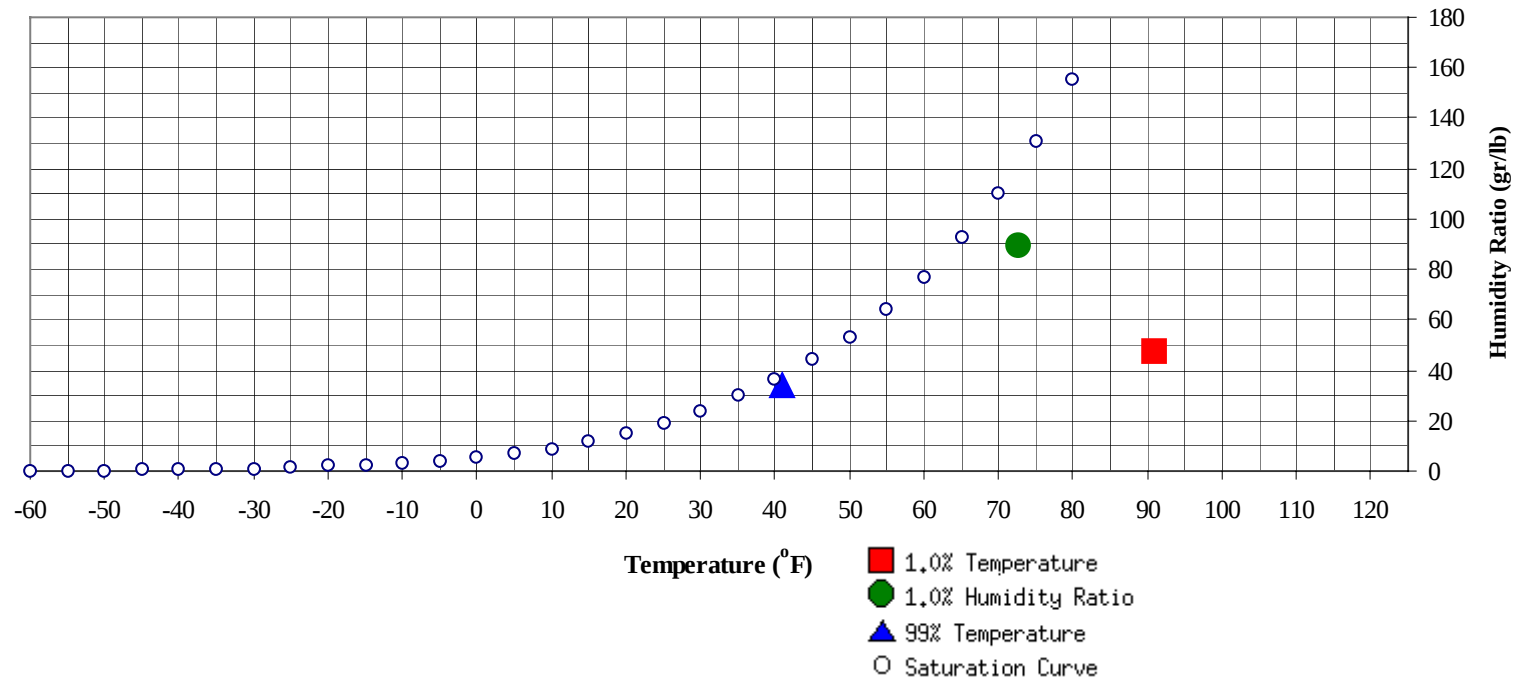


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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) |
|--------------|------|-----------------|----------------------|------------------------|---------|--------------|--------------|------------------|----------------------|
|              | 41   | 34              | 15.1                 |                        | 89.6    | 72.6         | 66.9         | 64.1             | 31.4                 |

| 1.0% Dry Bulb | (°F) | MCHR<br>(gr/lb) | MCWB<br>(°F) | Enthalpy<br>(btu/lb) |
|---------------|------|-----------------|--------------|----------------------|
|               | 91   | 47.9            | 64.4         | 29.4                 |

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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 |              |                          |
| 105 / 109                    | 0                   | 1              | 0              | 1            | 68.1                     |                     | 1              |                | 1            | 69.4                     |                     | 0              | 0              | 0            | 67.8                     |
| 100 / 104                    | 0                   | 3              | 1              | 4            | 66.9                     |                     | 3              | 1              | 4            | 67.9                     |                     | 1              | 0              | 1            | 67.4                     |
| 95 / 99                      | 0                   | 8              | 2              | 10           | 65.8                     | 0                   | 8              | 3              | 11           | 66.3                     |                     | 4              | 1              | 5            | 65.5                     |
| 90 / 94                      | 2                   | 12             | 8              | 23           | 64.7                     | 1                   | 13             | 7              | 22           | 65.5                     | 0                   | 10             | 3              | 13           | 64.9                     |
| 85 / 89                      | 3                   | 15             | 10             | 29           | 64.1                     | 2                   | 14             | 11             | 28           | 64.5                     | 1                   | 12             | 6              | 20           | 63.9                     |
| 80 / 84                      | 7                   | 25             | 19             | 50           | 63.5                     | 10                  | 34             | 24             | 68           | 63.1                     | 4                   | 22             | 14             | 40           | 62.5                     |
| 75 / 79                      | 14                  | 38             | 29             | 82           | 62.7                     | 17                  | 37             | 32             | 87           | 62.0                     | 11                  | 35             | 23             | 69           | 61.8                     |
| 70 / 74                      | 22                  | 66             | 47             | 134          | 60.7                     | 24                  | 50             | 40             | 113          | 60.4                     | 21                  | 56             | 40             | 117          | 60.5                     |
| 65 / 69                      | 37                  | 49             | 53             | 139          | 58.3                     | 28                  | 38             | 44             | 110          | 58.2                     | 27                  | 58             | 49             | 133          | 58.3                     |
| 60 / 64                      | 80                  | 29             | 61             | 171          | 55.6                     | 74                  | 24             | 51             | 149          | 55.4                     | 66                  | 44             | 75             | 185          | 55.8                     |
| 55 / 59                      | 66                  | 1              | 17             | 84           | 52.5                     | 55                  | 2              | 10             | 68           | 52.4                     | 85                  | 5              | 35             | 125          | 52.5                     |
| 50 / 54                      | 16                  |                | 1              | 17           | 49.5                     | 12                  |                | 0              | 12           | 49.8                     | 29                  | 0              | 2              | 31           | 49.2                     |
| 45 / 49                      | 0                   |                |                | 0            | 45.8                     | 0                   |                | 0              | 0            | 45.7                     | 4                   |                | 0              | 4            | 45.7                     |
| 40 / 44                      |                     |                |                |              |                          |                     |                | 0              | 0            |                          | 0                   |                |                | 0            | 43.0                     |
| 35 / 39                      |                     |                |                |              |                          |                     |                | 0              | 0            |                          |                     |                |                |              |                          |
| 30 / 34                      |                     |                |                |              |                          |                     |                | 0              | 0            |                          |                     |                |                |              |                          |

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

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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 |              |                          |
| 105 / 109                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     | 1              | 0              | 1            | 64.7                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 90 / 94                      |                     | 3              | 1              | 4            | 64.1                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 85 / 89                      |                     | 4              | 1              | 5            | 61.7                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 80 / 84                      | 1                   | 13             | 4              | 18           | 60.1                     |                     | 1              |                | 1            | 61.5                     |                     |                |                |              |                          |
| 75 / 79                      | 3                   | 19             | 8              | 30           | 59.2                     | 0                   | 6              | 1              | 7            | 59.4                     |                     |                |                |              |                          |
| 70 / 74                      | 8                   | 33             | 18             | 59           | 58.4                     | 1                   | 17             | 4              | 22           | 57.8                     |                     | 2              | 0              | 2            | 58.1                     |
| 65 / 69                      | 13                  | 56             | 26             | 95           | 57.4                     | 4                   | 36             | 17             | 58           | 56.5                     | 1                   | 8              | 2              | 11           | 57.1                     |
| 60 / 64                      | 40                  | 80             | 73             | 193          | 55.2                     | 25                  | 84             | 48             | 157          | 55.1                     | 9                   | 46             | 16             | 70           | 54.8                     |
| 55 / 59                      | 77                  | 30             | 82             | 189          | 52.3                     | 64                  | 82             | 98             | 244          | 52.4                     | 42                  | 110            | 77             | 229          | 52.3                     |
| 50 / 54                      | 63                  | 3              | 23             | 88           | 48.9                     | 79                  | 20             | 58             | 158          | 49.3                     | 85                  | 57             | 99             | 240          | 49.1                     |
| 45 / 49                      | 30                  | 0              | 4              | 35           | 45.4                     | 49                  | 3              | 18             | 70           | 45.2                     | 58                  | 15             | 40             | 113          | 45.2                     |
| 40 / 44                      | 4                   |                |                | 4            | 41.6                     | 18                  | 0              | 2              | 21           | 41.1                     | 31                  | 3              | 7              | 42           | 41.1                     |
| 35 / 39                      | 0                   |                |                | 0            | 39.0                     | 7                   |                |                | 7            | 37.5                     | 13                  | 0              | 0              | 13           | 37.3                     |
| 30 / 34                      |                     |                |                |              |                          |                     |                |                |              |                          | 1                   |                |                | 1            | 31.4                     |

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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 |              |                          |
| 105 / 109                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 90 / 94                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 85 / 89                      |                     |                |                |              |                          |                     |                |                |              |                          | 0                   | 1              |                | 1            | 59.4                     |
| 80 / 84                      |                     |                |                |              |                          |                     | 0              |                | 0            | 56.5                     | 0                   | 2              | 0              | 2            | 60.1                     |
| 75 / 79                      | 0                   | 0              |                | 0            | 60.5                     |                     | 2              | 0              | 2            | 57.0                     | 0                   | 6              | 1              | 7            | 56.8                     |
| 70 / 74                      | 0                   | 1              | 0              | 1            | 56.0                     | 0                   | 7              | 2              | 9            | 55.0                     | 1                   | 14             | 8              | 24           | 55.8                     |
| 65 / 69                      | 0                   | 4              | 1              | 5            | 54.0                     | 1                   | 12             | 4              | 17           | 53.7                     | 4                   | 20             | 9              | 33           | 54.5                     |
| 60 / 64                      | 1                   | 25             | 4              | 30           | 52.5                     | 4                   | 32             | 13             | 50           | 52.1                     | 11                  | 47             | 24             | 81           | 53.4                     |
| 55 / 59                      | 19                  | 103            | 51             | 173          | 51.3                     | 24                  | 111            | 54             | 189          | 50.7                     | 40                  | 113            | 80             | 232          | 51.3                     |
| 50 / 54                      | 98                  | 85             | 118            | 301          | 48.6                     | 104                 | 74             | 123            | 302          | 48.5                     | 94                  | 36             | 88             | 217          | 48.4                     |
| 45 / 49                      | 79                  | 28             | 60             | 167          | 44.9                     | 74                  | 10             | 44             | 128          | 44.6                     | 61                  | 2              | 28             | 90           | 44.6                     |
| 40 / 44                      | 36                  | 3              | 13             | 51           | 40.8                     | 31                  | 0              | 7              | 38           | 40.8                     | 25                  | 0              | 2              | 27           | 40.8                     |
| 35 / 39                      | 14                  | 0              | 1              | 15           | 37.1                     | 10                  | 0              | 0              | 10           | 37.1                     | 4                   | 0              |                | 4            | 37.7                     |
| 30 / 34                      | 1                   | 0              |                | 1            | 33.0                     | 0                   |                |                | 0            | 33.5                     |                     |                |                |              |                          |

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ADELAIDE AU

WMO No. 946720

**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 |              |                          |
| 105 / 109                    |                     |                |                |              |                          |                     | 0              | 0              | 0            | 66.0                     |                     |                | 0              |              | 0 67.0                   |
| 100 / 104                    |                     | 0              |                | 0            | 64.0                     |                     | 0              | 0              | 0            | 66.5                     |                     | 1              | 0              | 1            | 66.2                     |
| 95 / 99                      |                     | 0              |                | 0            | 64.0                     |                     | 3              | 0              | 3            | 64.1                     |                     | 5              | 2              | 7            | 63.7                     |
| 90 / 94                      |                     | 3              | 1              | 4            | 60.4                     | 0                   | 8              | 2              | 10           | 62.8                     | 1                   | 11             | 6              | 18           | 63.7                     |
| 85 / 89                      |                     | 4              | 1              | 5            | 60.4                     | 1                   | 9              | 5              | 15           | 61.5                     | 1                   | 12             | 8              | 21           | 62.8                     |
| 80 / 84                      | 0                   | 12             | 4              | 16           | 59.1                     | 3                   | 15             | 12             | 30           | 60.0                     | 9                   | 19             | 17             | 44           | 61.7                     |
| 75 / 79                      | 5                   | 19             | 13             | 37           | 57.5                     | 8                   | 21             | 15             | 43           | 59.2                     | 16                  | 31             | 22             | 69           | 61.2                     |
| 70 / 74                      | 9                   | 23             | 17             | 49           | 56.6                     | 14                  | 31             | 25             | 71           | 58.1                     | 21                  | 49             | 33             | 103          | 60.3                     |
| 65 / 69                      | 11                  | 32             | 19             | 62           | 55.8                     | 16                  | 47             | 24             | 88           | 56.8                     | 19                  | 62             | 44             | 124          | 58.1                     |
| 60 / 64                      | 28                  | 78             | 43             | 149          | 54.3                     | 36                  | 73             | 65             | 174          | 54.7                     | 63                  | 52             | 78             | 192          | 55.5                     |
| 55 / 59                      | 73                  | 70             | 95             | 238          | 51.7                     | 90                  | 30             | 76             | 197          | 51.5                     | 87                  | 8              | 35             | 131          | 52.1                     |
| 50 / 54                      | 76                  | 7              | 50             | 134          | 48.2                     | 56                  | 2              | 15             | 72           | 48.2                     | 28                  | 0              | 3              | 31           | 48.7                     |
| 45 / 49                      | 39                  | 0              | 5              | 44           | 44.8                     | 15                  | 0              | 1              | 16           | 45.3                     | 3                   |                | 0              | 3            | 45.2                     |
| 40 / 44                      | 8                   |                | 0              | 8            | 41.2                     | 1                   |                |                | 1            | 42.2                     |                     |                | 0              | 0            |                          |
| 35 / 39                      | 0                   |                |                | 0            | 37.5                     |                     |                |                |              |                          |                     |                | 0              | 0            |                          |
| 30 / 34                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

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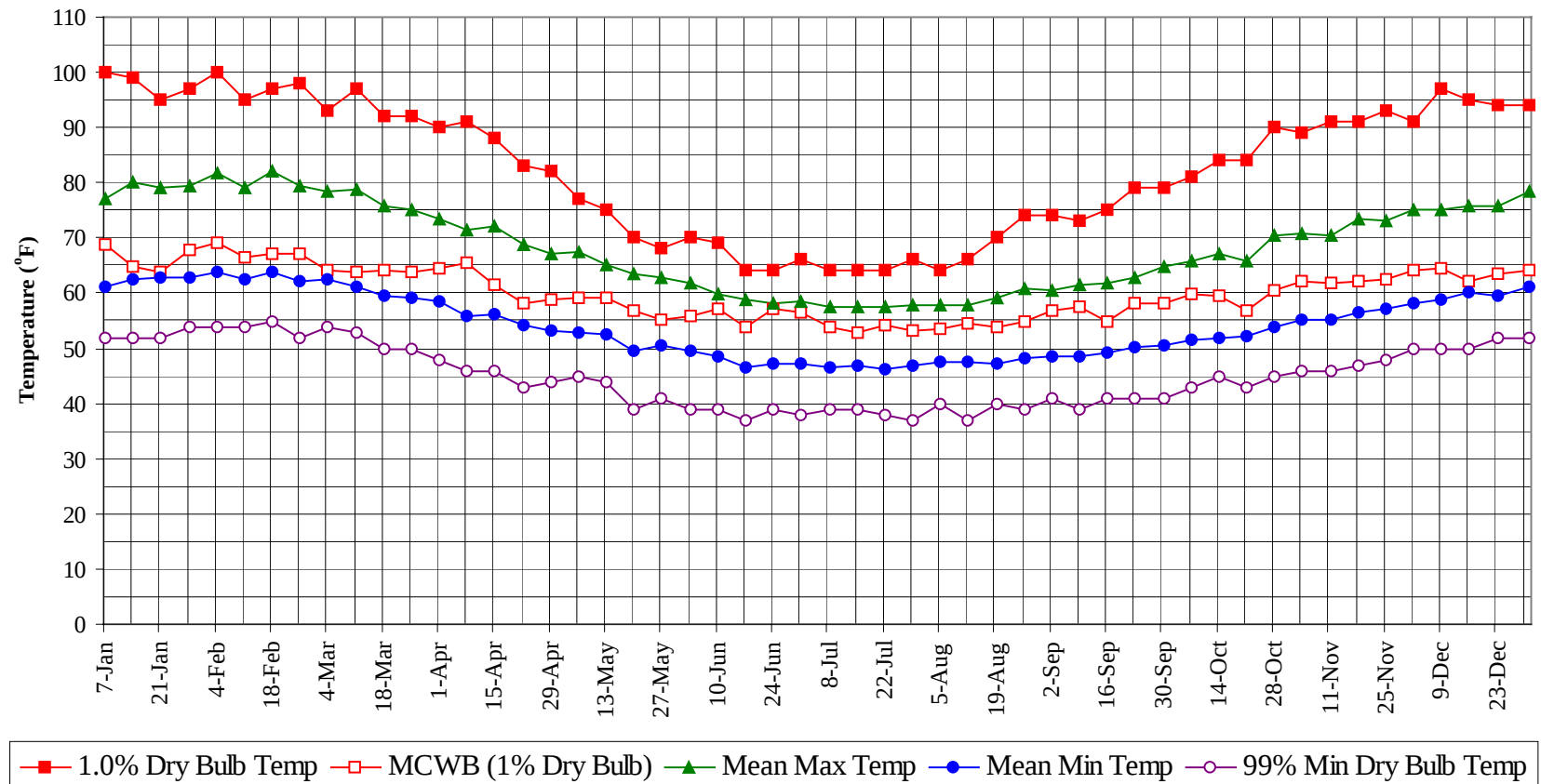
WMO No. 946720

**Period of Record = 1973 to 1996**

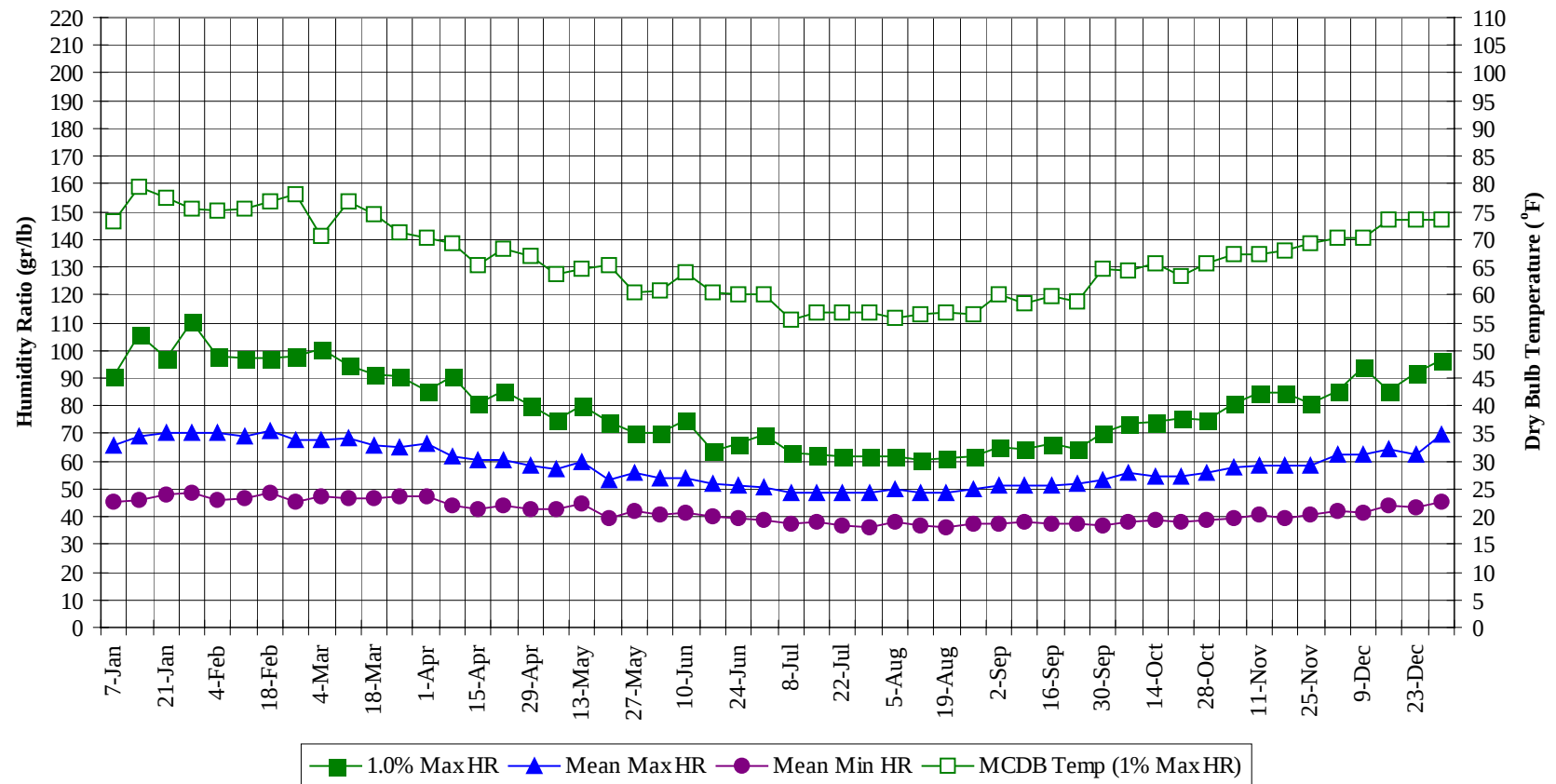
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## Annual Summary of Temperatures

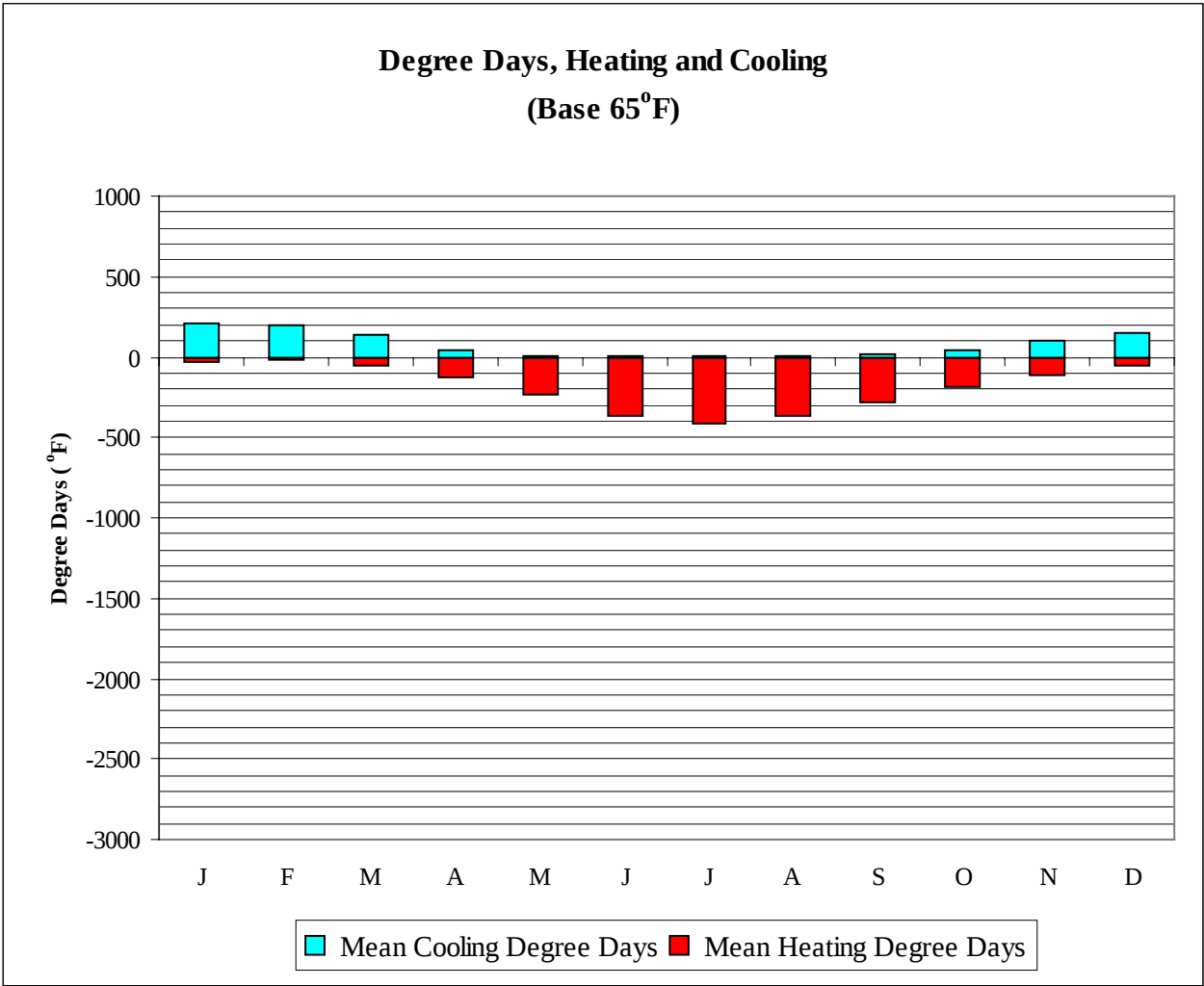


## Long Term Humidity and Dry Bulb Temperature Summary



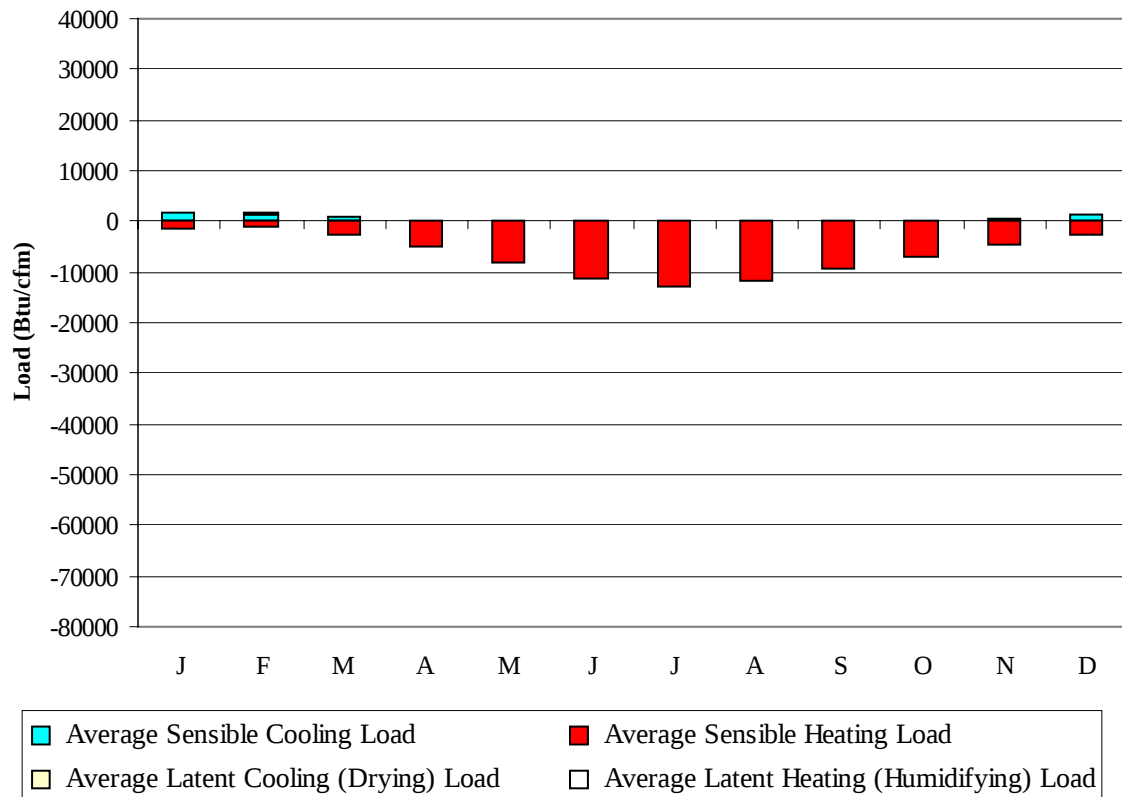
**ADELAIDE AU****WMO No. 946720****Long Term Dry Bulb Temperature and Humidity Summary**

| 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       | 100.0          | 68.8                | 77.2               | 61.1               | 52.0          | 90.3            | 73.3              | 65.8                | 45.5                |
| 14-Jan      | 99.0           | 64.7                | 80.1               | 62.4               | 52.0          | 105.7           | 79.5              | 68.9                | 46.1                |
| 21-Jan      | 95.0           | 63.8                | 78.9               | 62.9               | 52.0          | 97.3            | 77.6              | 70.4                | 47.9                |
| 28-Jan      | 97.0           | 67.8                | 79.5               | 63.0               | 54.0          | 110.6           | 75.5              | 70.0                | 48.7                |
| 4-Feb       | 100.0          | 69.2                | 81.7               | 63.8               | 54.0          | 98.0            | 75.1              | 70.4                | 45.9                |
| 11-Feb      | 95.0           | 66.6                | 79.1               | 62.6               | 54.0          | 97.3            | 75.5              | 68.8                | 46.6                |
| 18-Feb      | 97.0           | 67.1                | 82.0               | 63.9               | 55.0          | 97.3            | 76.9              | 71.1                | 48.3                |
| 25-Feb      | 98.0           | 67.0                | 79.4               | 62.3               | 52.0          | 98.0            | 78.3              | 67.9                | 45.6                |
| 4-Mar       | 93.0           | 64.0                | 78.3               | 62.4               | 54.0          | 100.8           | 70.5              | 67.8                | 47.2                |
| 11-Mar      | 97.0           | 63.8                | 78.7               | 61.2               | 53.0          | 94.5            | 77.0              | 68.6                | 46.9                |
| 18-Mar      | 92.0           | 64.0                | 75.6               | 59.6               | 50.0          | 91.0            | 74.6              | 65.7                | 46.3                |
| 25-Mar      | 92.0           | 63.7                | 75.0               | 59.2               | 50.0          | 90.3            | 71.4              | 65.1                | 47.0                |
| 1-Apr       | 90.0           | 64.4                | 73.4               | 58.5               | 48.0          | 85.4            | 70.4              | 66.1                | 47.1                |
| 8-Apr       | 91.0           | 65.3                | 71.5               | 55.7               | 46.0          | 90.3            | 69.3              | 61.8                | 44.0                |
| 15-Apr      | 88.0           | 61.4                | 72.1               | 56.3               | 46.0          | 80.5            | 65.5              | 60.2                | 42.6                |
| 22-Apr      | 83.0           | 58.0                | 68.7               | 54.3               | 43.0          | 85.4            | 68.5              | 60.2                | 44.1                |
| 29-Apr      | 82.0           | 58.7                | 67.1               | 53.1               | 44.0          | 79.8            | 67.0              | 58.3                | 42.5                |
| 6-May       | 77.0           | 59.1                | 67.5               | 53.0               | 45.0          | 74.9            | 63.7              | 57.3                | 42.5                |
| 13-May      | 75.0           | 59.0                | 65.1               | 52.5               | 44.0          | 79.8            | 64.6              | 59.4                | 44.9                |
| 20-May      | 70.0           | 56.8                | 63.3               | 49.6               | 39.0          | 74.2            | 65.4              | 53.1                | 39.4                |
| 27-May      | 68.0           | 55.3                | 62.7               | 50.6               | 41.0          | 70.0            | 60.3              | 56.0                | 42.0                |
| 3-Jun       | 70.0           | 55.8                | 61.8               | 49.6               | 39.0          | 70.0            | 60.8              | 54.2                | 40.8                |
| 10-Jun      | 69.0           | 57.2                | 59.9               | 48.6               | 39.0          | 74.9            | 63.9              | 53.7                | 41.2                |
| 17-Jun      | 64.0           | 53.7                | 58.7               | 46.7               | 37.0          | 63.7            | 60.5              | 51.9                | 39.9                |
| 24-Jun      | 64.0           | 57.2                | 58.1               | 47.4               | 39.0          | 66.5            | 59.9              | 51.3                | 39.4                |
| 1-Jul       | 66.0           | 56.6                | 58.6               | 47.1               | 38.0          | 69.3            | 60.1              | 50.6                | 38.7                |
| 8-Jul       | 64.0           | 53.9                | 57.5               | 46.7               | 39.0          | 63.0            | 55.5              | 48.6                | 37.6                |
| 15-Jul      | 64.0           | 52.8                | 57.6               | 46.7               | 39.0          | 62.3            | 56.7              | 48.8                | 38.1                |
| 22-Jul      | 64.0           | 54.2                | 57.5               | 46.1               | 38.0          | 61.6            | 56.8              | 48.5                | 37.0                |
| 29-Jul      | 66.0           | 53.2                | 58.0               | 46.7               | 37.0          | 61.6            | 56.9              | 48.3                | 36.3                |
| 5-Aug       | 64.0           | 53.4                | 57.7               | 47.5               | 40.0          | 61.6            | 55.9              | 49.7                | 38.2                |
| 12-Aug      | 66.0           | 54.4                | 57.9               | 47.5               | 37.0          | 60.2            | 56.5              | 48.7                | 37.0                |
| 19-Aug      | 70.0           | 53.7                | 59.1               | 47.2               | 40.0          | 60.9            | 56.9              | 48.7                | 36.2                |
| 26-Aug      | 74.0           | 55.0                | 60.7               | 48.2               | 39.0          | 61.6            | 56.5              | 50.0                | 37.3                |
| 2-Sep       | 74.0           | 56.8                | 60.4               | 48.4               | 41.0          | 65.1            | 60.2              | 50.9                | 37.4                |
| 9-Sep       | 73.0           | 57.3                | 61.4               | 48.5               | 39.0          | 64.4            | 58.4              | 51.4                | 37.8                |
| 16-Sep      | 75.0           | 55.0                | 61.9               | 49.3               | 41.0          | 66.5            | 59.9              | 51.5                | 37.4                |
| 23-Sep      | 79.0           | 58.2                | 62.9               | 50.1               | 41.0          | 64.4            | 58.7              | 51.8                | 37.4                |
| 30-Sep      | 79.0           | 58.0                | 64.8               | 50.6               | 41.0          | 70.0            | 64.8              | 52.9                | 37.1                |
| 7-Oct       | 81.0           | 59.7                | 65.8               | 51.6               | 43.0          | 73.5            | 64.3              | 55.9                | 37.9                |
| 14-Oct      | 84.0           | 59.6                | 67.0               | 51.8               | 45.0          | 74.2            | 65.6              | 54.8                | 38.7                |
| 21-Oct      | 84.0           | 56.9                | 65.9               | 52.0               | 43.0          | 75.6            | 63.4              | 54.3                | 37.9                |
| 28-Oct      | 90.0           | 60.3                | 70.5               | 54.0               | 45.0          | 74.9            | 65.8              | 55.5                | 38.5                |
| 4-Nov       | 89.0           | 62.0                | 70.6               | 55.0               | 46.0          | 80.5            | 67.4              | 57.8                | 39.2                |
| 11-Nov      | 91.0           | 61.7                | 70.3               | 55.1               | 46.0          | 84.7            | 67.3              | 58.4                | 40.5                |
| 18-Nov      | 91.0           | 62.2                | 73.5               | 56.6               | 47.0          | 84.7            | 67.8              | 58.5                | 39.6                |
| 25-Nov      | 93.0           | 62.5                | 73.3               | 57.2               | 48.0          | 80.5            | 69.1              | 58.2                | 40.5                |
| 2-Dec       | 91.0           | 64.1                | 75.1               | 58.3               | 50.0          | 85.4            | 70.4              | 62.6                | 41.8                |
| 9-Dec       | 97.0           | 64.5                | 75.2               | 58.8               | 50.0          | 93.8            | 70.2              | 62.2                | 41.3                |
| 16-Dec      | 95.0           | 62.2                | 75.8               | 60.1               | 50.0          | 85.4            | 73.6              | 64.2                | 44.0                |
| 23-Dec      | 94.0           | 63.3                | 75.7               | 59.6               | 52.0          | 91.7            | 73.5              | 62.5                | 43.7                |
| 31-Dec      | 94.0           | 64.3                | 78.5               | 61.0               | 52.0          | 96.6            | 73.7              | 69.3                | 45.6                |



|     | Mean Cooling<br>Degree Days (°F) | Mean Heating<br>Degree Days (°F) |
|-----|----------------------------------|----------------------------------|
| JAN | 206                              | 28                               |
| FEB | 198                              | 22                               |
| MAR | 139                              | 51                               |
| APR | 45                               | 130                              |
| MAY | 9                                | 238                              |
| JUN | 1                                | 363                              |
| JUL | 0                                | 408                              |
| AUG | 3                                | 365                              |
| SEP | 13                               | 277                              |
| OCT | 43                               | 189                              |
| NOV | 97                               | 111                              |
| DEC | 154                              | 55                               |
| ANN | 907                              | 2237                             |

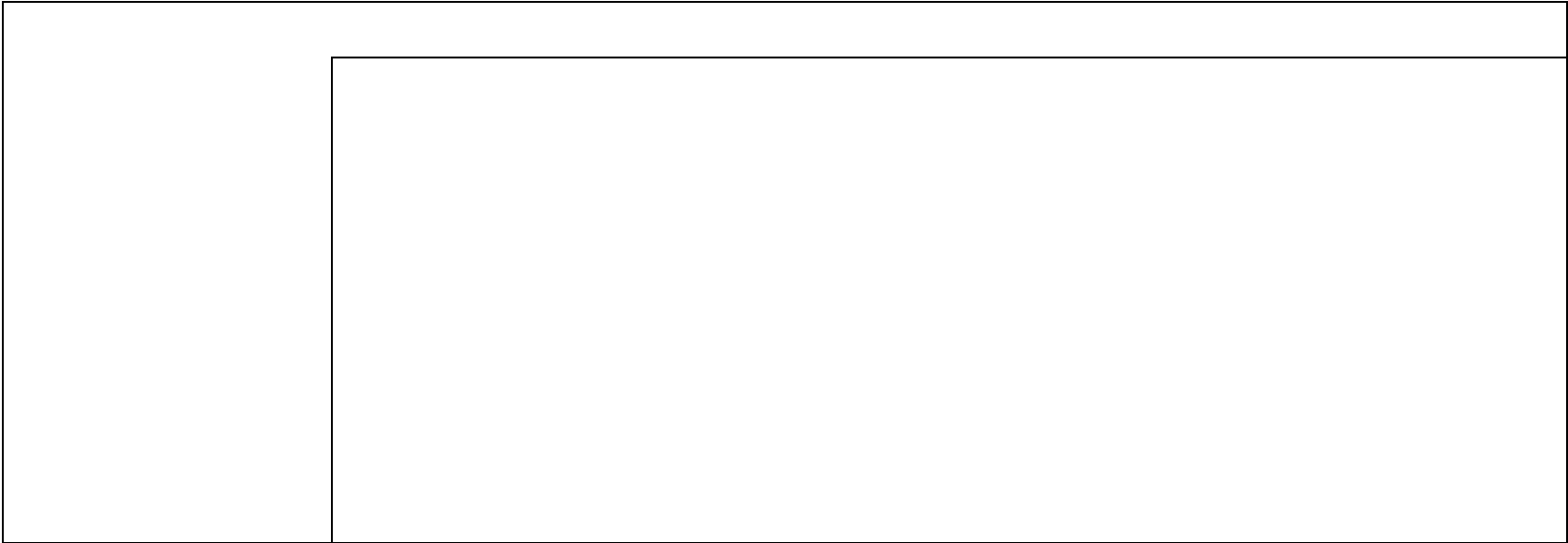
**Average Ventilation and Infiltration Loads**  
**(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)**



|     | 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 | 1660                             | -1605                            | 194                            | -27                            |
| FEB | 1490                             | -1169                            | 130                            | -25                            |
| MAR | 871                              | -2484                            | 98                             | -13                            |
| APR | 180                              | -5153                            | 31                             | -21                            |
| MAY | 6                                | -8263                            | 3                              | -13                            |
| JUN | 0                                | -11484                           | 0                              | -17                            |
| JUL | 0                                | -12731                           | 0                              | -22                            |
| AUG | 1                                | -11695                           | 0                              | -57                            |
| SEP | 28                               | -9393                            | 2                              | -48                            |
| OCT | 211                              | -6915                            | 2                              | -71                            |
| NOV | 604                              | -4426                            | 22                             | -77                            |
| DEC | 1137                             | -2645                            | 102                            | -35                            |
| ANN | 6188                             | -77963                           | 584                            | -426                           |

**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)

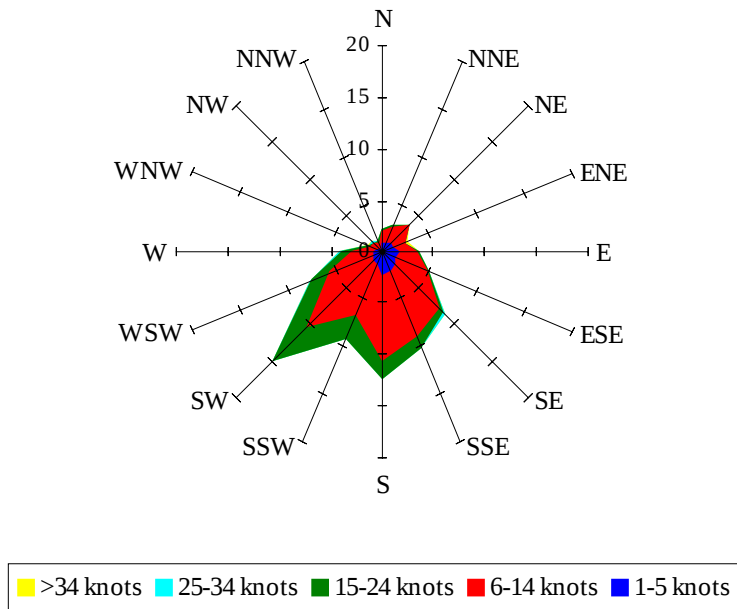
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### Wind Summary - December, January, and February

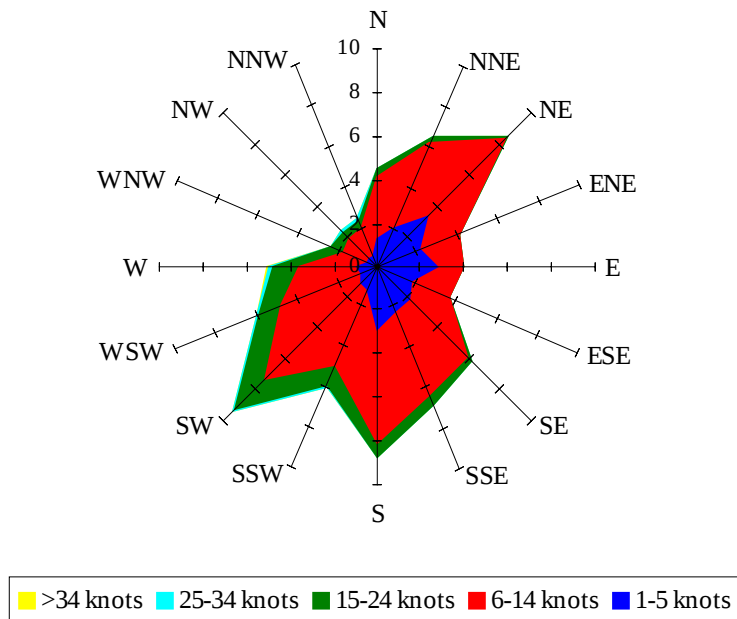
Labels of Percent Frequency on North Axis



Percent Calm = 9.98

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

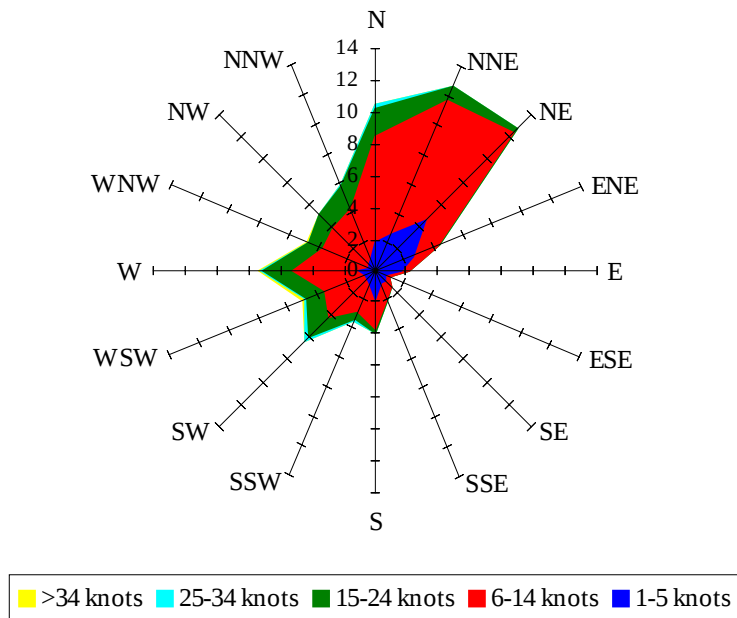
Labels of Percent Frequency on North Axis



Percent Calm = 14.14

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

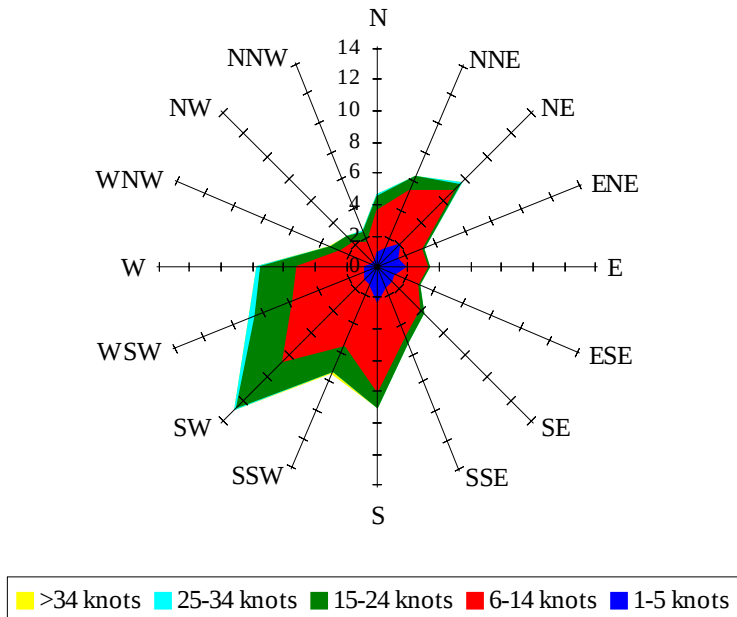
Labels of Percent Frequency on North Axis



Percent Calm = 12.26

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

Labels of Percent Frequency on North Axis



Percent Calm = 8.87