

**GLADSTONE RADAR, Australia****Annual Climatic Design Data (1994–2019)**

| Latitude | Longitude | Elevation ft | Standard Station<br>Pressure psi | Winter<br>Temperature °F | Summer<br>Temperature °F | Extreme Wind<br>Speed mph | Extreme Wind<br>Direction |
|----------|-----------|--------------|----------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| 23.8553S | 151.2628E | 247          | 14.57                            | 52.7                     | 91.1                     | 23.6                      | E                         |

**Monthly Winds (1994–2019)**

|       | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| %CALM | 0   | 0   | 1   | 1   | 1   | 1   | 2   | 2   | 1   | 1   | 1   | 1   |

**Prevailing Wind #1**

|         |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| DIR     | E    | E    | SE   | SE   | SE   | SE   | SE   | SE   | ENE  | ENE  | ENE  | ENE  |
| %OCC    | 19   | 18   | 19   | 20   | 16   | 14   | 12   | 10   | 12   | 17   | 20   | 18   |
| AVG mph | 16.9 | 17.0 | 12.6 | 12.4 | 11.5 | 11.8 | 11.3 | 11.1 | 11.2 | 12.4 | 12.8 | 13.1 |
| MED mph | 16.9 | 17.2 | 12.4 | 12.4 | 11.5 | 11.7 | 11.3 | 11.3 | 11.1 | 12.1 | 12.6 | 12.9 |

**Prevailing Wind #2**

|         |      |      |      |      |      |      |      |      |     |      |      |      |
|---------|------|------|------|------|------|------|------|------|-----|------|------|------|
| DIR     | ENE  | SE   | SSE  | SSE  | SSE  | SSE  | SSE  | ENE  | NE  | NE   | NE   | E    |
| %OCC    | 19   | 16   | 16   | 18   | 15   | 14   | 12   | 10   | 12  | 14   | 16   | 15   |
| AVG mph | 13.4 | 12.2 | 11.0 | 10.8 | 10.5 | 10.5 | 10.1 | 10.5 | 9.8 | 10.4 | 10.6 | 16.4 |
| MED mph | 13.2 | 12.1 | 10.9 | 10.8 | 10.6 | 10.5 | 10.2 | 10.1 | 9.8 | 10.5 | 10.6 | 16.3 |

**Prevailing Wind #3**

|         |      |      |      |      |      |     |     |      |      |      |      |      |
|---------|------|------|------|------|------|-----|-----|------|------|------|------|------|
| DIR     | SE   | ENE  | E    | E    | E    | SW  | SW  | SSE  | E    | E    | E    | NE   |
| %OCC    | 12   | 15   | 16   | 14   | 10   | 10  | 11  | 10   | 9    | 13   | 13   | 13   |
| AVG mph | 12.0 | 13.4 | 16.0 | 15.1 | 13.2 | 7.9 | 7.9 | 10.0 | 14.1 | 15.5 | 15.9 | 10.6 |
| MED mph | 11.8 | 13.2 | 16.2 | 15.2 | 13.2 | 7.7 | 7.7 | 10.4 | 13.9 | 15.4 | 15.8 | 10.7 |

**Prevailing Wind #4**

|         |      |      |      |      |      |     |     |      |      |      |      |      |
|---------|------|------|------|------|------|-----|-----|------|------|------|------|------|
| DIR     | ESE  | ESE  | ESE  | ESE  | ESE  | SSW | SSW | E    | SE   | SE   | NNE  | SE   |
| %OCC    | 11   | 14   | 13   | 12   | 10   | 10  | 10  | 10   | 8    | 8    | 8    | 10   |
| AVG mph | 16.0 | 15.5 | 15.2 | 14.7 | 13.3 | 8.4 | 8.2 | 13.3 | 10.9 | 10.9 | 10.5 | 11.4 |
| MED mph | 15.5 | 15.3 | 14.9 | 14.5 | 13.5 | 8.4 | 8.3 | 13.2 | 11.0 | 10.9 | 10.3 | 11.4 |