

**MALAKITE BEACH, TX, United States of America****Annual Climatic Design Data (2005–2019)**

| Latitude | Longitude | Elevation m | Standard Station<br>Pressure kPa | Winter<br>Temperature °C | Summer<br>Temperature °C | Extreme Wind<br>Speed m/s | Extreme Wind<br>Direction |
|----------|-----------|-------------|----------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| 27.581N  | 97.216W   | 10          | 101.20                           | 2.9                      | 31.7                     | 13.1                      | SSE                       |

**Monthly Winds (2005–2019)**

|                           | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| %CALM                     | 0   | 1   | 2   | 2   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |
| <b>Prevailing Wind #1</b> |     |     |     |     |     |     |     |     |     |     |     |     |
| DIR                       | N   | N   | SE  | SE  | SE  | SE  | SE  | SE  | ESE | SE  | SSE | N   |
| %OCC                      | 16  | 15  | 22  | 25  | 31  | 34  | 33  | 27  | 16  | 17  | 15  | 17  |
| AVG m/s                   | 7.4 | 7.7 | 6.8 | 7.8 | 8.1 | 7.6 | 7.0 | 6.6 | 6.3 | 7.0 | 7.0 | 6.9 |
| MED m/s                   | 7.4 | 7.7 | 7.1 | 7.8 | 8.2 | 7.6 | 7.1 | 6.8 | 6.4 | 7.3 | 7.2 | 6.8 |
| <b>Prevailing Wind #2</b> |     |     |     |     |     |     |     |     |     |     |     |     |
| DIR                       | SSE | SSE | ESE | ESE | ESE | SSE | SSE | SSE | SE  | SSE | N   | SE  |
| %OCC                      | 10  | 14  | 16  | 19  | 20  | 25  | 26  | 22  | 15  | 14  | 15  | 12  |
| AVG m/s                   | 5.9 | 6.6 | 5.8 | 6.6 | 7.3 | 7.9 | 7.1 | 6.3 | 6.9 | 7.7 | 7.3 | 6.0 |
| MED m/s                   | 5.7 | 6.9 | 5.7 | 6.8 | 7.4 | 7.8 | 7.1 | 6.4 | 7.1 | 7.8 | 7.3 | 5.7 |
| <b>Prevailing Wind #3</b> |     |     |     |     |     |     |     |     |     |     |     |     |
| DIR                       | NNE | SE  | SSE | SSE | SSE | ESE | ESE | ESE | E   | ESE | SE  | NNW |
| %OCC                      | 10  | 13  | 12  | 13  | 17  | 16  | 15  | 16  | 13  | 13  | 14  | 11  |
| AVG m/s                   | 6.8 | 5.9 | 7.0 | 8.5 | 8.3 | 6.7 | 6.2 | 5.8 | 6.0 | 6.2 | 6.3 | 6.5 |
| MED m/s                   | 6.9 | 5.8 | 7.1 | 8.6 | 8.5 | 6.9 | 6.0 | 5.8 | 5.8 | 6.2 | 6.2 | 6.2 |
| <b>Prevailing Wind #4</b> |     |     |     |     |     |     |     |     |     |     |     |     |
| DIR                       | NNW | NNE | E   | E   | E   | S   | S   | S   | SSE | E   | ESE | SSE |
| %OCC                      | 10  | 10  | 8   | 11  | 9   | 8   | 11  | 10  | 11  | 9   | 9   | 10  |
| AVG m/s                   | 7.1 | 7.1 | 5.0 | 6.0 | 6.4 | 6.9 | 6.7 | 5.9 | 7.2 | 5.7 | 5.3 | 6.7 |
| MED m/s                   | 7.0 | 7.1 | 5.0 | 5.9 | 6.4 | 6.8 | 6.7 | 5.8 | 7.3 | 5.5 | 5.1 | 7.0 |