

**RICHMOND, CA, United States of America****Annual Climatic Design Data (2005–2019)**

| 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 |
|----------|-----------|--------------|----------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| 37.923N  | 122.410W  | 18           | 14.69                            | 42.2                     | 77.0                     | 18.6                      | NW                        |

**Monthly Winds (2005–2019)**

|       | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| %CALM | 4   | 4   | 5   | 3   | 1   | 1   | 2   | 2   | 3   | 5   | 7   | 9   |

**Prevailing Wind #1**

|         |     |     |     |      |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | NNW | NW  | NW  | NW   | SSE | S   | S   | S   | SSE | SSE | NNW | NNW |
| %OCC    | 21  | 15  | 14  | 18   | 18  | 24  | 24  | 25  | 20  | 15  | 15  | 16  |
| AVG mph | 7.5 | 7.6 | 8.2 | 10.4 | 7.1 | 7.7 | 8.1 | 7.5 | 6.0 | 5.7 | 7.2 | 7.5 |
| MED mph | 7.2 | 6.6 | 7.5 | 10.2 | 6.4 | 7.2 | 7.8 | 6.9 | 5.5 | 4.9 | 6.6 | 6.4 |

**Prevailing Wind #2**

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | NW  | NNW | SSE | SSE | S   | SSE | SSE | SSE | S   | S   | NW  | NW  |
| %OCC    | 14  | 13  | 12  | 13  | 18  | 23  | 20  | 22  | 17  | 13  | 15  | 11  |
| AVG mph | 7.1 | 7.4 | 7.7 | 6.4 | 7.2 | 7.5 | 8.1 | 7.4 | 6.1 | 5.7 | 6.9 | 7.1 |
| MED mph | 6.4 | 6.4 | 6.2 | 5.8 | 6.7 | 6.7 | 7.5 | 6.6 | 5.7 | 5.1 | 6.3 | 6.1 |

**Prevailing Wind #3**

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | SSE | SSE | S   | S   | SSW | SSW | SSW | SSW | SSW | NW  | SSE | SSE |
| %OCC    | 9   | 13  | 11  | 13  | 14  | 15  | 18  | 17  | 12  | 10  | 9   | 11  |
| AVG mph | 8.3 | 8.4 | 7.1 | 6.5 | 6.8 | 7.3 | 7.2 | 6.8 | 5.7 | 6.8 | 7.0 | 8.3 |
| MED mph | 6.7 | 6.5 | 5.9 | 5.9 | 6.3 | 6.6 | 6.5 | 6.3 | 5.3 | 6.1 | 5.8 | 7.1 |

**Prevailing Wind #4**

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | NE  | WNW | SSW | SSW | SW  | SW  | SW  | SW  | SW  | SSW | N   | N   |
| %OCC    | 9   | 8   | 10  | 11  | 11  | 11  | 16  | 12  | 9   | 9   | 9   | 8   |
| AVG mph | 8.1 | 7.3 | 6.6 | 6.5 | 6.4 | 6.2 | 6.5 | 6.0 | 6.0 | 5.8 | 7.8 | 8.2 |
| MED mph | 8.1 | 6.0 | 5.7 | 5.9 | 6.0 | 5.9 | 6.1 | 5.6 | 5.7 | 5.0 | 6.5 | 6.7 |