| | |
|---|---|
| **IZMIR, TURKEY** | |
| Latitude = 38.50 N | WMO No. 172180 |
| Longitude = 27.02 E | Elevation = 16 feet |
| Period of Record = 1967 to 1996 | Average Pressure = 29.91 inches Hg |

## Design Criteria Data

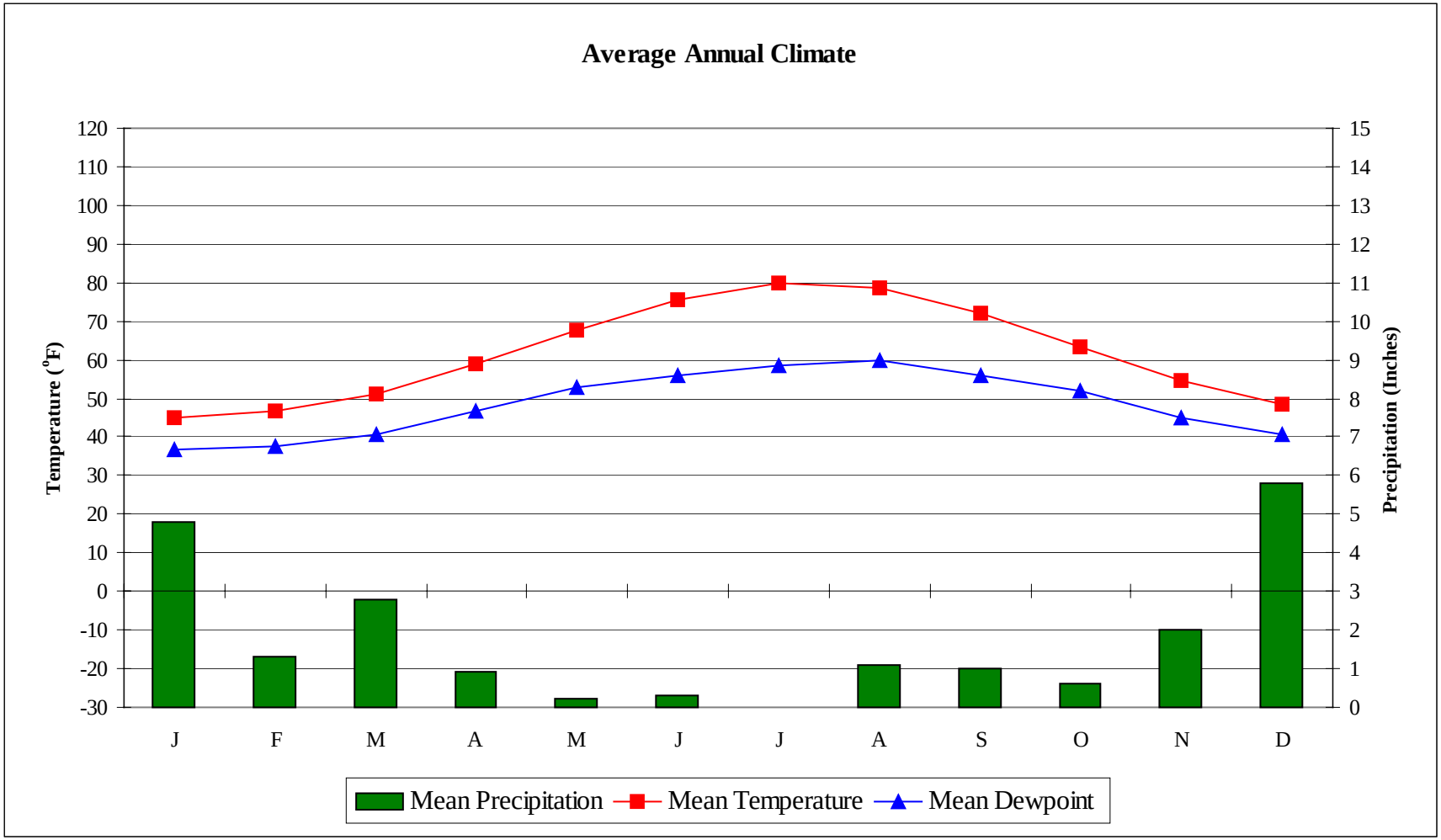
| | | Mean Coincident (Average) Values | | | |
|---|---|---|---|---|---|
| **Dry Bulb Temperature (T)** | **Design Value ($^oF$)** | Wet Bulb Temperature ($^oF$) | Humidity Ratio (gr/lb) | Wind Speed (mph) | Prevailing Direction (NSEW) |
| Median of Extreme Highs | 102 | 73 | 80 | 12.9 | NNW |
| 0.4% Occurrence | 97 | 71 | 76 | 13.0 | N |
| 1.0% Occurrence | 93 | 70 | 78 | 13.5 | NNW |
| 2.0% Occurrence | 91 | 70 | 78 | 13.6 | N |
| Mean Daily Range | 19 | - | - | - | - |
| 97.5% Occurrence | 34 | 31 | 22 | 7.3 | N |
| 99.0% Occurrence | 32 | 29 | 20 | 7.1 | N |
| 99.6% Occurrence | 28 | 26 | 16 | 6.2 | N |
| Median of Extreme Lows | 25 | 23 | 14 | 6.6 | N |
| | | Mean Coincident (Average) Values | | | |
| **Wet Bulb Temperature ($T_{wb}$)** | **Design Value ($^oF$)** | Dry Bulb Temperature ($^oF$) | Humidity Ratio (gr/lb) | Wind Speed (mph) | Prevailing Direction (NSEW) |
| Median of Extreme Highs | 77 | 91 | 113 | 15.2 | NNW |
| 0.4% Occurrence | 75 | 90 | 104 | 13.8 | NNW |
| 1.0% Occurrence | 73 | 89 | 95 | 12.7 | NNW |
| 2.0% Occurrence | 72 | 88 | 92 | 12.1 | NNW |
| | | Mean Coincident (Average) Values | | | |
| **Humidity Ratio (HR)** | **Design Value (gr/lb)** | Dry Bulb Temperature ($^oF$) | Vapor Pressure (in. Hg) | Wind Speed (mph) | Prevailing Direction (NSEW) |
| Median of Extreme Highs | 118 | 87 | 0.78 | 13.6 | NNW |
| 0.4% Occurrence | 111 | 85 | 0.74 | 12.3 | N |
| 1.0% Occurrence | 104 | 82 | 0.69 | 10.4 | NNW |
| 2.0% Occurrence | 97 | 81 | 0.65 | 9.4 | N |
| **Air Conditioning/** | | $T \geq 93^oF$ | $T \geq 80^oF$ | $T_{wb} \geq 73^oF$ | $T_{wb} \geq 67^oF$ |
| **Humid Area Criteria** | # of Hours | 133 | 1200 | 134 | 1116 |

**Other Site Data**

| Weather Region | Rain Rate 100 Year Recurrence (in./hr) | Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph) | Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible |
|---|---|---|---|
| 8 | N/A | N/A | 0.4 + 1.2 |
| **Ground Water Temperature ($^oF$) 50 Foot Depth *** | **Frost Depth 50 Year Recurrence (in.)** | **Ground Snow Load 50 Year Recurrence ($lb/ft^2$)** | **Average Annual Freeze-Thaw Cycles (#)** |
| 64.3 | N/A | N/A | 14 |

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

**IZMIR, TURKEY** WMO No. 172180



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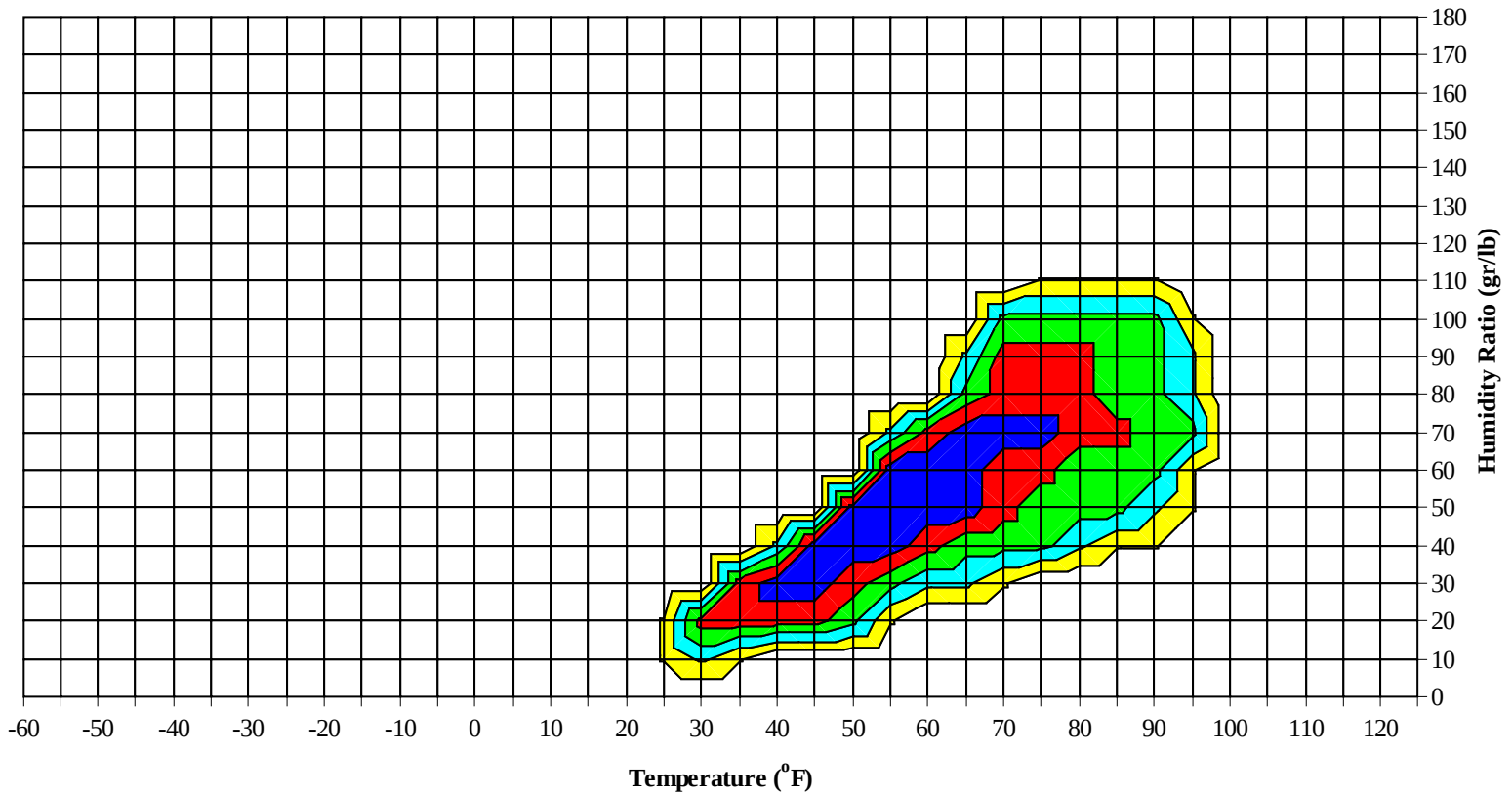
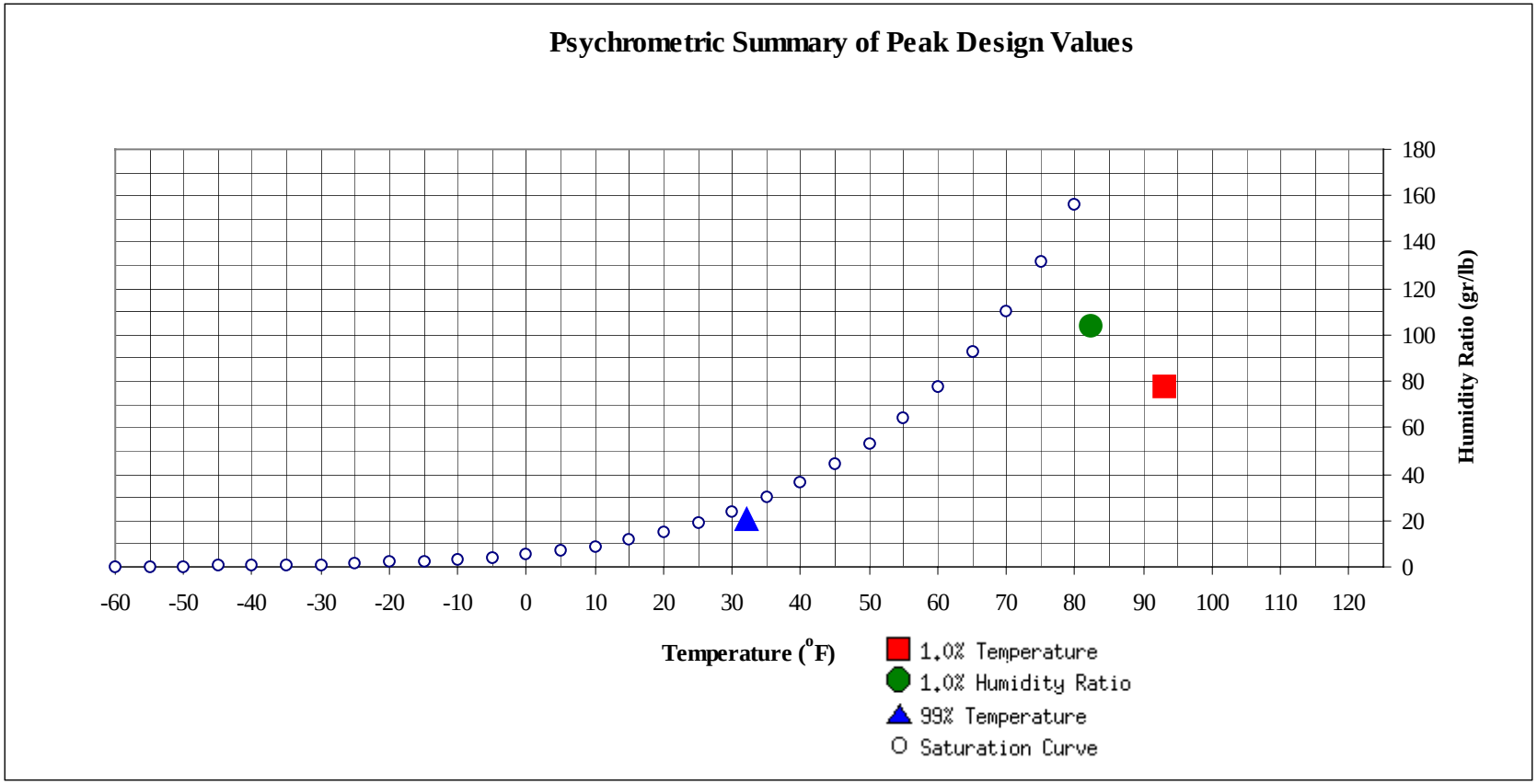
## Long Term Psychrometric Summary




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

**IZMIR, TURKEY** WMO No. 172180




| | (°F) | MCHR (gr/lb) | Enthalpy (btu/lb) |
|---|---|---|---|
| **99% Dry Bulb** | 32 | 20.3 | 10.8 |

| | (gr/lb) | MCDB (°F) | MCWB (°F) | MC Dewpt (°F) | Enthalpy (btu/lb) |
|---|---|---|---|---|---|
| **1.0% Humidity Ratio** | 103.6 | 82.3 | 72.2 | 68 | 36.0 |

| | (°F) | MCHR (gr/lb) | MCWB (°F) | Enthalpy (btu/lb) |
|---|---|---|---|---|
| **1.0% Dry Bulb** | 93 | 77.9 | 70.7 | 34.6 |

**IZMIR, TURKEY** WMO No. 172180

## Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

**Period of Record = 1967 to 1996**

| Temperature Range (°F) | January Hour Group (LST) 01 To 08 | 09 To 16 | 17 To 00 | Total Obs | MCWB (°F) | February Hour Group (LST) 01 To 08 | 09 To 16 | 17 To 00 | Total Obs | MCWB (°F) | March Hour Group (LST) 01 To 08 | 09 To 16 | 17 To 00 | Total Obs | MCWB (°F) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **105 / 109** | | | | | | | | | | | | | | | |
| **100 / 104** | | | | | | | | | | | | | | | |
| **95 / 99** | | | | | | | | | | | | | | | |
| **90 / 94** | | | | | | | | | | | | | | | |
| **85 / 89** | | | | | | | | | | | | 0 | | 0 | 65.0 |
| **80 / 84** | | | | | | | | | | | | 0 | 0 | 0 | 64.5 |
| **75 / 79** | | | | | | | | | | | 0 | 1 | 0 | 1 | 60.1 |
| **70 / 74** | | | | | | | 1 | 0 | 1 | 60.1 | 0 | 9 | 2 | 11 | 57.9 |
| **65 / 69** | 0 | 1 | | 1 | 57.0 | 0 | 4 | 1 | 5 | 56.5 | 0 | 23 | 8 | 31 | 56.0 |
| **60 / 64** | 2 | 15 | 5 | 22 | 54.7 | 3 | 22 | 12 | 37 | 53.9 | 5 | 49 | 28 | 82 | 53.7 |
| **55 / 59** | 16 | 39 | 26 | 81 | 51.4 | 16 | 47 | 33 | 95 | 50.9 | 25 | 59 | 54 | 138 | 50.9 |
| **50 / 54** | 36 | 64 | 50 | 149 | 47.6 | 36 | 56 | 51 | 143 | 47.5 | 50 | 57 | 68 | 175 | 47.4 |
| **45 / 49** | 45 | 60 | 58 | 164 | 42.8 | 44 | 45 | 55 | 144 | 42.9 | 69 | 32 | 49 | 149 | 43.1 |
| **40 / 44** | 35 | 32 | 43 | 110 | 38.4 | 36 | 22 | 30 | 89 | 38.5 | 41 | 10 | 23 | 74 | 38.6 |
| **35 / 39** | 54 | 24 | 45 | 123 | 34.2 | 43 | 19 | 27 | 89 | 34.3 | 39 | 6 | 14 | 59 | 34.3 |
| **30 / 34** | 45 | 10 | 18 | 73 | 29.9 | 35 | 6 | 14 | 55 | 29.5 | 17 | 1 | 3 | 21 | 29.8 |
| **25 / 29** | 14 | 2 | 4 | 20 | 25.1 | 9 | 1 | 2 | 12 | 25.2 | 3 | 0 | 0 | 3 | 25.6 |
| **20 / 24** | 1 | 0 | | 1 | 21.9 | 1 | | 0 | 1 | 21.3 | | | | | |

**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.**

**IZMIR, TURKEY** WMO No. 172180

## Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)

**Period of Record = 1967 to 1996**

| Temperature Range (°F) | April | | | | | May | | | | | June | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hour Group (LST) | | | | MCWB | Hour Group (LST) | | | | MCWB | Hour Group (LST) | | | | MCWB |
| | 01 To 08 | 09 To 16 | 17 To 00 | Total Obs | (°F) | 01 To 08 | 09 To 16 | 17 To 00 | Total Obs | (°F) | 01 To 08 | 09 To 16 | 17 To 00 | Total Obs | (°F) |
| **105 / 109** | | | | | | | | | | | | 0 | | 0 | 75.0 |
| **100 / 104** | | | | | | | | | | | | 1 | 0 | 1 | 72.8 |
| **95 / 99** | | | | | | | 1 | | 1 | 67.9 | | 8 | 2 | 10 | 70.8 |
| **90 / 94** | | | | | | | 5 | 1 | 6 | 67.7 | | 38 | 14 | 52 | 69.4 |
| **85 / 89** | | 0 | | 0 | 61.5 | | 14 | 4 | 18 | 66.6 | 0 | 47 | 20 | 67 | 67.7 |
| **80 / 84** | | 4 | 1 | 5 | 62.5 | 0 | 41 | 14 | 55 | 65.2 | 4 | 77 | 44 | 125 | 65.9 |
| **75 / 79** | 0 | 21 | 6 | 27 | 60.9 | 3 | 66 | 33 | 102 | 63.0 | 22 | 49 | 56 | 127 | 64.2 |
| **70 / 74** | 2 | 44 | 17 | 63 | 58.8 | 13 | 63 | 53 | 129 | 61.1 | 62 | 15 | 62 | 139 | 62.7 |
| **65 / 69** | 7 | 45 | 26 | 77 | 56.8 | 32 | 31 | 49 | 112 | 59.4 | 67 | 3 | 29 | 99 | 60.3 |
| **60 / 64** | 25 | 64 | 59 | 147 | 54.9 | 83 | 21 | 61 | 165 | 57.3 | 66 | 2 | 11 | 79 | 57.7 |
| **55 / 59** | 54 | 44 | 65 | 163 | 52.1 | 78 | 5 | 27 | 110 | 53.5 | 19 | 0 | 1 | 20 | 53.7 |
| **50 / 54** | 79 | 17 | 51 | 147 | 48.6 | 33 | 1 | 5 | 39 | 49.3 | 2 | 0 | 0 | 2 | 49.4 |
| **45 / 49** | 56 | 2 | 14 | 72 | 44.0 | 6 | 0 | 0 | 6 | 44.2 | 0 | | | 0 | 46.0 |
| **40 / 44** | 13 | 0 | 1 | 14 | 39.7 | 1 | | 0 | 1 | 39.6 | | | | | |
| **35 / 39** | 5 | | 0 | 5 | 36.0 | 0 | | | 0 | 37.3 | | | | | |
| **30 / 34** | | | | | | | | | | | | | | | |
| **25 / 29** | | | | | | | | | | | | | | | |
| **20 / 24** | | | | | | | | | | | | | | | |

**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.**

**IZMIR, TURKEY** WMO No. 172180

## Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)

**Period of Record = 1967 to 1996**

| Temperature Range (°F) | July Hour Group (LST) 01 To 08 | July 09 To 16 | July 17 To 00 | July Total Obs | July MCWB (°F) | August Hour Group (LST) 01 To 08 | August 09 To 16 | August 17 To 00 | August Total Obs | August MCWB (°F) | September Hour Group (LST) 01 To 08 | September 09 To 16 | September 17 To 00 | September Total Obs | September MCWB (°F) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **105 / 109** | | 0 | 0 | 0 | 73.0 | | | | | | | | | | |
| **100 / 104** | | 6 | 1 | 7 | 73.4 | | 1 | 0 | 1 | 71.6 | | | | | |
| **95 / 99** | | 21 | 9 | 30 | 72.0 | | 17 | 4 | 21 | 71.3 | | 2 | | 2 | 70.9 |
| **90 / 94** | 0 | 74 | 33 | 107 | 70.4 | | 57 | 22 | 79 | 70.8 | | 12 | 3 | 15 | 69.2 |
| **85 / 89** | 1 | 61 | 34 | 96 | 68.7 | 1 | 65 | 32 | 98 | 69.5 | | 36 | 8 | 43 | 68.3 |
| **80 / 84** | 9 | 60 | 58 | 127 | 67.3 | 6 | 69 | 56 | 131 | 68.0 | 0 | 77 | 27 | 104 | 66.7 |
| **75 / 79** | 56 | 23 | 71 | 149 | 65.6 | 41 | 32 | 69 | 142 | 66.2 | 6 | 65 | 50 | 121 | 64.4 |
| **70 / 74** | 105 | 3 | 35 | 142 | 63.5 | 95 | 6 | 51 | 151 | 64.2 | 35 | 35 | 70 | 140 | 62.9 |
| **65 / 69** | 55 | 0 | 7 | 62 | 61.1 | 64 | 0 | 13 | 77 | 61.8 | 58 | 9 | 42 | 110 | 60.8 |
| **60 / 64** | 22 | 0 | 1 | 23 | 58.3 | 39 | | 2 | 41 | 58.8 | 84 | 4 | 33 | 121 | 57.7 |
| **55 / 59** | 1 | | | 1 | 54.9 | 3 | | | 3 | 54.7 | 45 | 0 | 7 | 52 | 53.7 |
| **50 / 54** | | | | | | | | | | | 12 | | 0 | 12 | 49.9 |
| **45 / 49** | | | | | | | | | | | 0 | | | 0 | 46.0 |
| **40 / 44** | | | | | | | | | | | | | | | |
| **35 / 39** | | | | | | | | | | | | | | | |
| **30 / 34** | | | | | | | | | | | | | | | |
| **25 / 29** | | | | | | | | | | | | | | | |
| **20 / 24** | | | | | | | | | | | | | | | |

**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.**

**IZMIR, TURKEY** WMO No. 172180

## Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)

**Period of Record = 1967 to 1996**

| Temperature Range (°F) | October | | | | | November | | | | | December | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hour Group (LST) | | | | MCWB | Hour Group (LST) | | | | MCWB | Hour Group (LST) | | | | MCWB |
| | 01 To 08 | 09 To 16 | 17 To 00 | Total Obs | (°F) | 01 To 08 | 09 To 16 | 17 To 00 | Total Obs | (°F) | 01 To 08 | 09 To 16 | 17 To 00 | Total Obs | (°F) |
| **105 / 109** | | | | | | | | | | | | | | | |
| **100 / 104** | | | | | | | | | | | | | | | |
| **95 / 99** | | 0 | | 0 | 71.0 | | | | | | | | | | |
| **90 / 94** | | 1 | 0 | 1 | 68.5 | | | | | | | | | | |
| **85 / 89** | | 4 | 1 | 5 | 66.8 | | | | | | | | | | |
| **80 / 84** | | 21 | 3 | 24 | 65.9 | | | | | | | | | | |
| **75 / 79** | 2 | 52 | 16 | 70 | 64.0 | | 2 | 0 | 2 | 62.7 | | | | | |
| **70 / 74** | 7 | 61 | 37 | 105 | 61.9 | 0 | 18 | 2 | 20 | 60.5 | 0 | 1 | | 1 | 59.8 |
| **65 / 69** | 20 | 45 | 46 | 110 | 59.6 | 3 | 39 | 10 | 52 | 58.0 | 0 | 6 | 1 | 7 | 57.5 |
| **60 / 64** | 49 | 37 | 69 | 155 | 57.0 | 21 | 62 | 46 | 128 | 56.0 | 10 | 33 | 16 | 59 | 55.6 |
| **55 / 59** | 80 | 20 | 51 | 151 | 53.1 | 50 | 55 | 68 | 173 | 52.5 | 26 | 52 | 40 | 118 | 52.3 |
| **50 / 54** | 58 | 6 | 21 | 85 | 48.9 | 56 | 39 | 59 | 154 | 48.0 | 51 | 72 | 59 | 181 | 48.0 |
| **45 / 49** | 27 | 1 | 5 | 33 | 44.5 | 53 | 18 | 33 | 105 | 43.0 | 52 | 47 | 62 | 160 | 43.2 |
| **40 / 44** | 4 | | 0 | 4 | 40.1 | 29 | 4 | 14 | 47 | 38.8 | 37 | 19 | 33 | 89 | 38.9 |
| **35 / 39** | 1 | | | 1 | 36.4 | 22 | 2 | 7 | 31 | 35.0 | 45 | 13 | 30 | 88 | 34.8 |
| **30 / 34** | | | | | | 7 | 0 | 1 | 8 | 30.2 | 26 | 4 | 8 | 38 | 30.4 |
| **25 / 29** | | | | | | 0 | | | 0 | 25.4 | 3 | 0 | 1 | 4 | 25.8 |
| **20 / 24** | | | | | | | | | | | | | | | |

**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.**

**IZMIR, TURKEY** WMO No. 172180

## Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

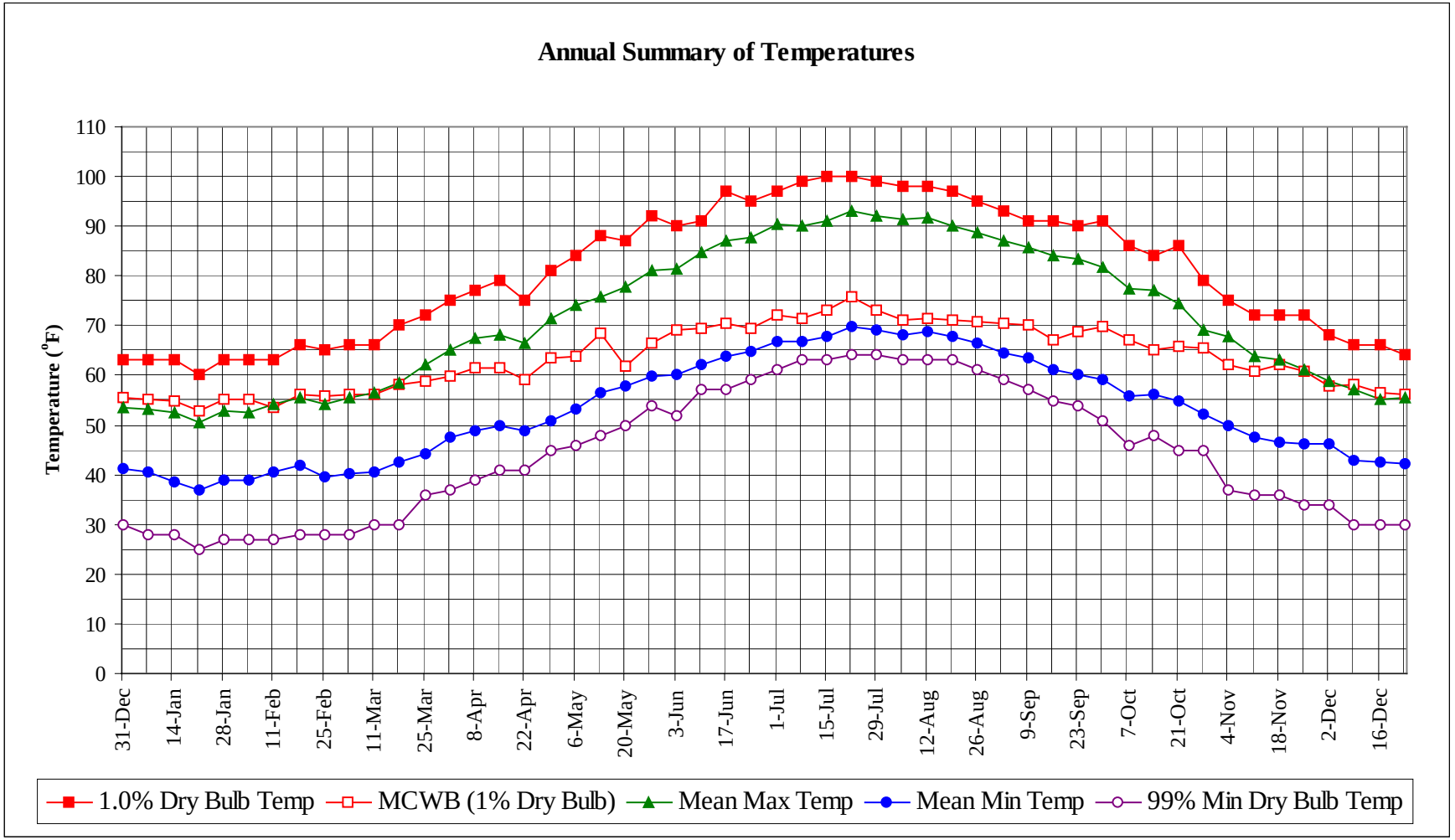
**Period of Record = 1967 to 1996**

**Annual Totals**

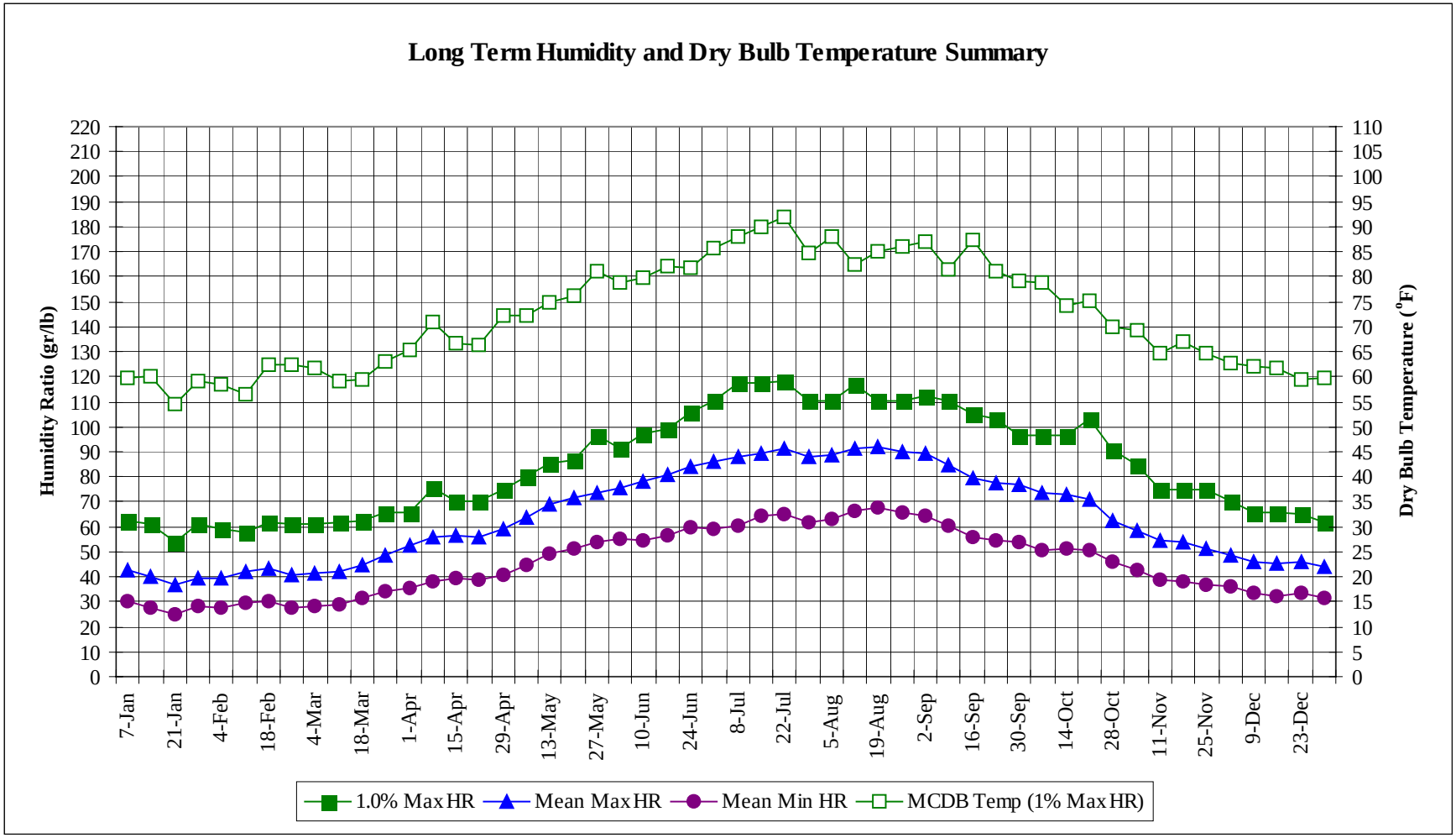
| Temperature Range (°F) | Hour Group (LST) 01 To 08 | 09 To 16 | 17 To 00 | Total Obs | MCWB (°F) |
|---|---|---|---|---|---|
| **105 / 109** | | 0 | 0 | 0 | 73.8 |
| **100 / 104** | | 8 | 2 | 10 | 73.1 |
| **95 / 99** | | 49 | 15 | 64 | 71.5 |
| **90 / 94** | 0 | 187 | 71 | 258 | 70.2 |
| **85 / 89** | 1 | 226 | 99 | 325 | 68.5 |
| **80 / 84** | 19 | 349 | 203 | 571 | 66.8 |
| **75 / 79** | 128 | 311 | 300 | 739 | 64.6 |
| **70 / 74** | 317 | 254 | 325 | 896 | 62.4 |
| **65 / 69** | 302 | 203 | 229 | 735 | 59.6 |
| **60 / 64** | 402 | 306 | 338 | 1046 | 56.4 |
| **55 / 59** | 408 | 323 | 369 | 1100 | 52.3 |
| **50 / 54** | 411 | 314 | 364 | 1089 | 48.0 |
| **45 / 49** | 355 | 207 | 279 | 841 | 43.2 |
| **40 / 44** | 196 | 91 | 147 | 434 | 38.6 |
| **35 / 39** | 213 | 67 | 126 | 405 | 34.5 |
| **30 / 34** | 136 | 22 | 46 | 204 | 29.9 |
| **25 / 29** | 31 | 3 | 7 | 41 | 25.3 |
| **20 / 24** | 2 | 0 | 0 | 2 | 21.6 |

**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.**

**IZMIR, TURKEY** WMO No. 172180



**IZMIR, TURKEY** WMO No. 172180

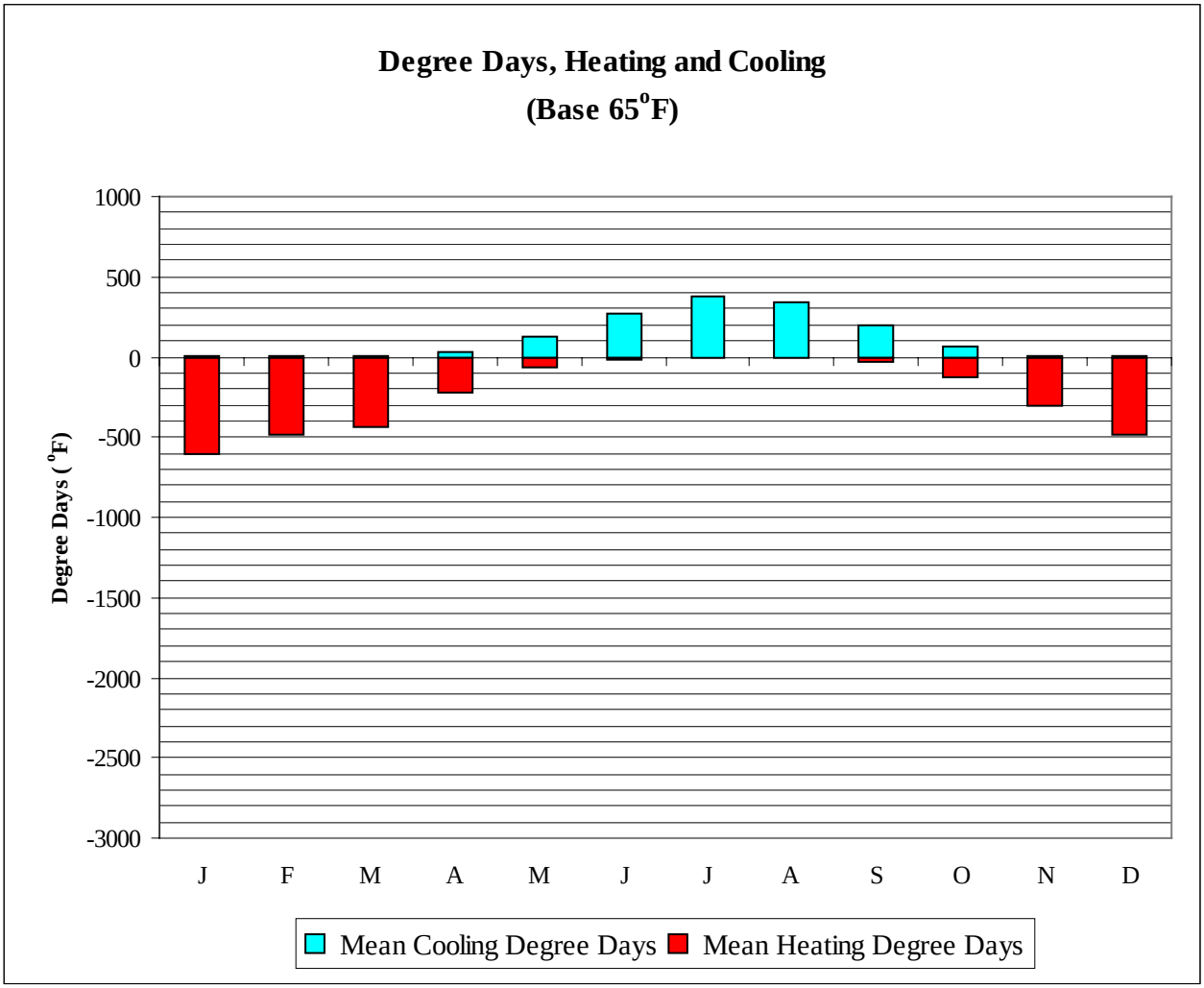


**IZMIR, TURKEY** WMO No. 172180

## Long Term Dry Bulb Temperature and Humidity Summary

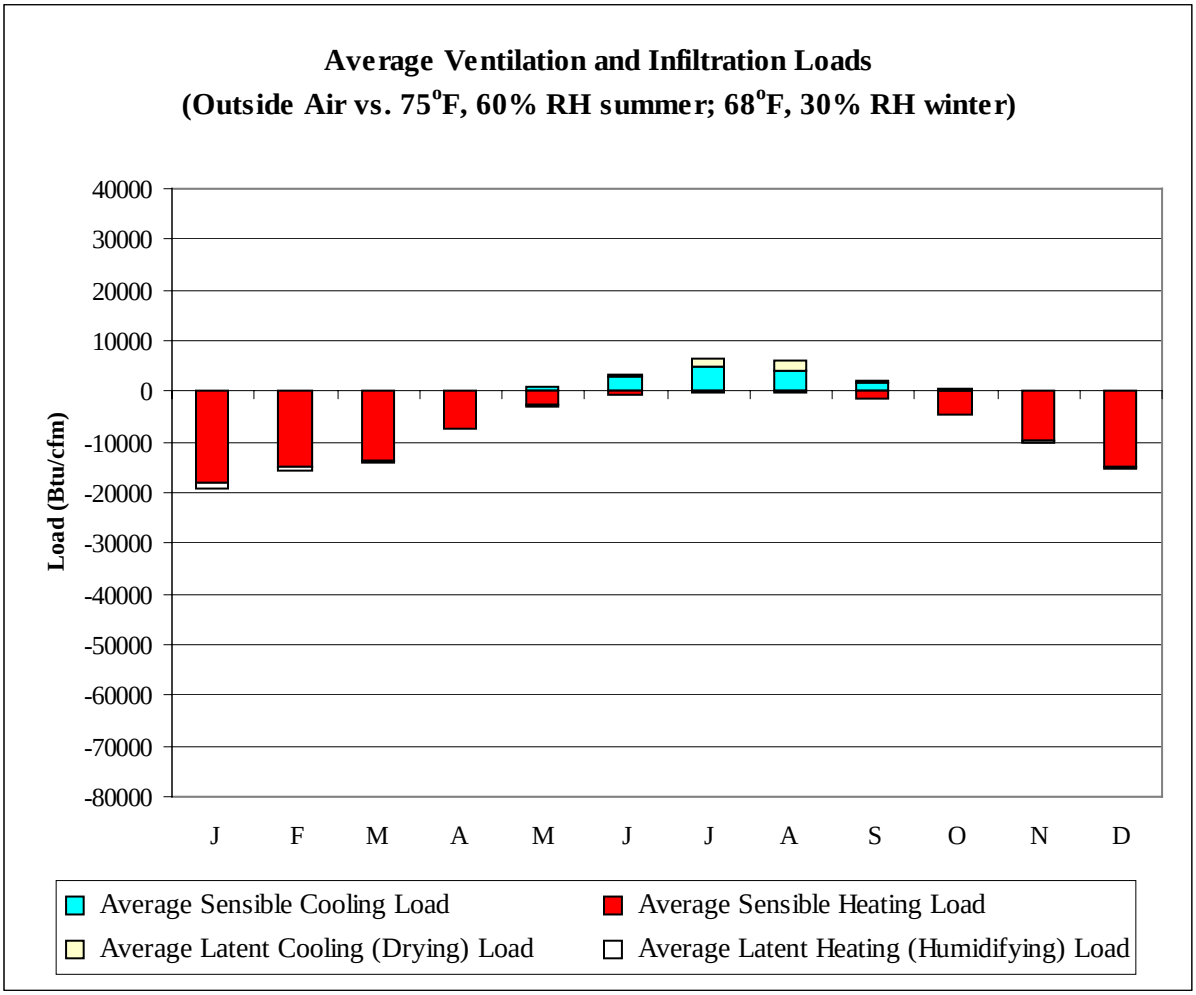
| Week Ending | 1.0% Temp (°F) | MCWB @ 1% Temp (°F) | Mean Max Temp (°F) | Mean Min Temp (°F) | 99% Temp (°F) | 1.0% HR (gr/lb) | MCDB @ 1% HR (°F) | Mean Max HR (gr/lb) | Mean Min HR (gr/lb) |
|---|---|---|---|---|---|---|---|---|---|
| 7-Jan | 63.0 | 55.2 | 53.3 | 40.7 | 28.0 | 62.3 | 59.9 | 42.7 | 30.3 |
| 14-Jan | 63.0 | 54.7 | 52.5 | 38.6 | 28.0 | 60.9 | 60.1 | 39.8 | 27.9 |
| 21-Jan | 60.0 | 53.0 | 50.6 | 36.8 | 25.0 | 53.9 | 54.4 | 36.9 | 25.0 |
| 28-Jan | 63.0 | 55.3 | 52.7 | 38.9 | 27.0 | 60.9 | 59.2 | 39.4 | 28.1 |
| 4-Feb | 63.0 | 55.2 | 52.4 | 38.8 | 27.0 | 58.8 | 58.4 | 39.3 | 27.4 |
| 11-Feb | 63.0 | 53.5 | 54.3 | 40.4 | 27.0 | 58.1 | 56.6 | 41.8 | 29.8 |
| 18-Feb | 66.0 | 56.0 | 55.5 | 41.7 | 28.0 | 61.6 | 62.4 | 43.6 | 30.2 |
| 25-Feb | 65.0 | 55.7 | 54.2 | 39.5 | 28.0 | 60.9 | 62.4 | 40.6 | 27.7 |
| 4-Mar | 66.0 | 56.0 | 55.6 | 40.1 | 28.0 | 60.9 | 61.8 | 41.1 | 28.3 |
| 11-Mar | 66.0 | 56.2 | 56.3 | 40.5 | 30.0 | 61.6 | 59.2 | 42.2 | 29.2 |
| 18-Mar | 70.0 | 58.2 | 58.5 | 42.5 | 30.0 | 62.3 | 59.3 | 44.8 | 31.5 |
| 25-Mar | 72.0 | 58.7 | 62.2 | 44.4 | 36.0 | 65.8 | 63.1 | 48.6 | 33.9 |
| 1-Apr | 75.0 | 60.0 | 65.2 | 47.4 | 37.0 | 65.8 | 65.4 | 52.8 | 35.4 |
| 8-Apr | 77.0 | 61.6 | 67.5 | 49.0 | 39.0 | 75.6 | 70.8 | 56.1 | 38.3 |
| 15-Apr | 79.0 | 61.3 | 68.2 | 49.7 | 41.0 | 70.0 | 66.5 | 56.4 | 39.7 |
| 22-Apr | 75.0 | 59.1 | 66.6 | 48.9 | 41.0 | 70.0 | 66.3 | 55.9 | 38.9 |
| 29-Apr | 81.0 | 63.5 | 71.3 | 51.0 | 45.0 | 74.9 | 72.1 | 59.3 | 40.9 |
| 6-May | 84.0 | 63.9 | 74.1 | 53.2 | 46.0 | 79.8 | 72.3 | 63.7 | 44.5 |
| 13-May | 88.0 | 68.5 | 75.8 | 56.6 | 48.0 | 85.4 | 74.9 | 69.0 | 49.5 |
| 20-May | 87.0 | 61.7 | 77.9 | 57.7 | 50.0 | 86.8 | 76.3 | 71.6 | 51.3 |
| 27-May | 92.0 | 66.3 | 81.2 | 59.9 | 54.0 | 96.6 | 81.0 | 73.8 | 53.6 |
| 3-Jun | 90.0 | 69.2 | 81.5 | 60.2 | 52.0 | 91.0 | 78.9 | 75.7 | 54.9 |
| 10-Jun | 91.0 | 69.5 | 84.8 | 62.3 | 57.0 | 97.3 | 79.7 | 78.0 | 54.7 |
| 17-Jun | 97.0 | 70.3 | 87.1 | 63.7 | 57.0 | 99.4 | 82.0 | 80.5 | 56.4 |
| 24-Jun | 95.0 | 69.4 | 87.6 | 64.8 | 59.0 | 105.7 | 81.7 | 84.2 | 59.4 |
| 1-Jul | 97.0 | 72.3 | 90.3 | 66.7 | 61.0 | 110.6 | 85.8 | 86.0 | 59.4 |
| 8-Jul | 99.0 | 71.4 | 90.1 | 66.8 | 63.0 | 117.6 | 88.1 | 88.2 | 60.5 |
| 15-Jul | 100.0 | 73.1 | 91.1 | 67.9 | 63.0 | 117.6 | 90.1 | 89.5 | 64.1 |
| 22-Jul | 100.0 | 75.7 | 93.0 | 69.6 | 64.0 | 118.3 | 92.0 | 91.5 | 65.3 |
| 29-Jul | 99.0 | 73.0 | 91.9 | 69.2 | 64.0 | 110.6 | 84.7 | 87.8 | 61.7 |
| 5-Aug | 98.0 | 71.0 | 91.5 | 68.2 | 63.0 | 110.6 | 88.0 | 89.0 | 63.1 |
| 12-Aug | 98.0 | 71.5 | 91.6 | 68.8 | 63.0 | 116.9 | 82.5 | 91.3 | 66.2 |
| 19-Aug | 97.0 | 71.2 | 90.0 | 67.9 | 63.0 | 110.6 | 85.2 | 92.0 | 67.4 |
| 26-Aug | 95.0 | 71.0 | 88.9 | 66.4 | 61.0 | 110.6 | 86.1 | 90.2 | 65.6 |
| 2-Sep | 93.0 | 70.3 | 87.0 | 64.5 | 59.0 | 112.0 | 87.0 | 89.6 | 64.3 |
| 9-Sep | 91.0 | 70.1 | 85.7 | 63.4 | 57.0 | 110.6 | 81.4 | 84.9 | 60.2 |
| 16-Sep | 91.0 | 67.0 | 84.2 | 61.0 | 55.0 | 105.0 | 87.5 | 79.8 | 55.6 |
| 23-Sep | 90.0 | 68.7 | 83.3 | 60.1 | 54.0 | 102.9 | 81.1 | 77.2 | 54.3 |
| 30-Sep | 91.0 | 69.8 | 81.8 | 59.3 | 51.0 | 96.6 | 79.3 | 76.5 | 53.6 |
| 7-Oct | 86.0 | 67.2 | 77.6 | 55.7 | 46.0 | 96.6 | 78.7 | 73.3 | 50.3 |
| 14-Oct | 84.0 | 65.2 | 77.1 | 56.2 | 48.0 | 96.6 | 74.3 | 72.7 | 51.3 |
| 21-Oct | 86.0 | 65.9 | 74.6 | 54.8 | 45.0 | 102.9 | 75.2 | 70.9 | 50.4 |
| 28-Oct | 79.0 | 65.6 | 69.0 | 52.1 | 45.0 | 90.3 | 70.0 | 62.4 | 45.8 |
| 4-Nov | 75.0 | 62.2 | 67.8 | 49.9 | 37.0 | 84.7 | 69.3 | 58.7 | 42.6 |
| 11-Nov | 72.0 | 60.8 | 63.7 | 47.5 | 36.0 | 74.9 | 64.8 | 54.2 | 38.8 |
| 18-Nov | 72.0 | 62.1 | 63.2 | 46.4 | 36.0 | 74.9 | 66.9 | 54.1 | 38.2 |
| 25-Nov | 72.0 | 60.8 | 61.2 | 46.1 | 34.0 | 74.9 | 64.7 | 51.2 | 36.9 |
| 2-Dec | 68.0 | 57.9 | 58.9 | 46.1 | 34.0 | 70.0 | 62.6 | 48.9 | 36.3 |
| 9-Dec | 66.0 | 58.2 | 57.1 | 43.0 | 30.0 | 65.8 | 62.1 | 46.2 | 33.2 |
| 16-Dec | 66.0 | 56.4 | 55.1 | 42.6 | 30.0 | 65.8 | 61.6 | 45.1 | 32.4 |
| 23-Dec | 64.0 | 56.3 | 55.5 | 42.2 | 30.0 | 65.1 | 59.3 | 46.1 | 33.2 |
| 31-Dec | 63.0 | 55.6 | 53.6 | 41.2 | 30.0 | 61.6 | 59.7 | 43.9 | 31.6 |

**IZMIR, TURKEY** WMO No. 172180




| | Mean Cooling Degree Days (°F) | Mean Heating Degree Days (°F) |
|---|---|---|
| JAN | 0 | 600 |
| FEB | 0 | 489 |
| MAR | 4 | 433 |
| APR | 29 | 217 |
| MAY | 128 | 66 |
| JUN | 273 | 12 |
| JUL | 378 | 1 |
| AUG | 337 | 3 |
| SEP | 198 | 26 |
| OCT | 69 | 121 |
| NOV | 7 | 303 |
| DEC | 0 | 485 |
| ANN | 1424 | 2756 |

**IZMIR, TURKEY** WMO No. 172180




| | Average Sensible Cooling Load (Btu/cfm) | Average Sensible Heating Load (Btu/cfm) | Average Latent Cooling Load (Btu/cfm) | Average Latent Heating Load (Btu/cfm) |
|---|---|---|---|---|
| JAN | 0 | -17900 | 0 | -1172 |
| FEB | 0 | -14715 | 0 | -910 |
| MAR | 3 | -13493 | 0 | -619 |
| APR | 64 | -7495 | 4 | -42 |
| MAY | 740 | -2823 | 145 | -8 |
| JUN | 2737 | -637 | 724 | -2 |
| JUL | 4926 | -135 | 1686 | -1 |
| AUG | 4050 | -236 | 1842 | 0 |
| SEP | 1562 | -1256 | 730 | 0 |
| OCT | 284 | -4518 | 217 | -10 |
| NOV | 3 | -9855 | 7 | -262 |
| DEC | 0 | -14813 | 0 | -576 |
| ANN | 14369 | -87876 | 5355 | -3602 |

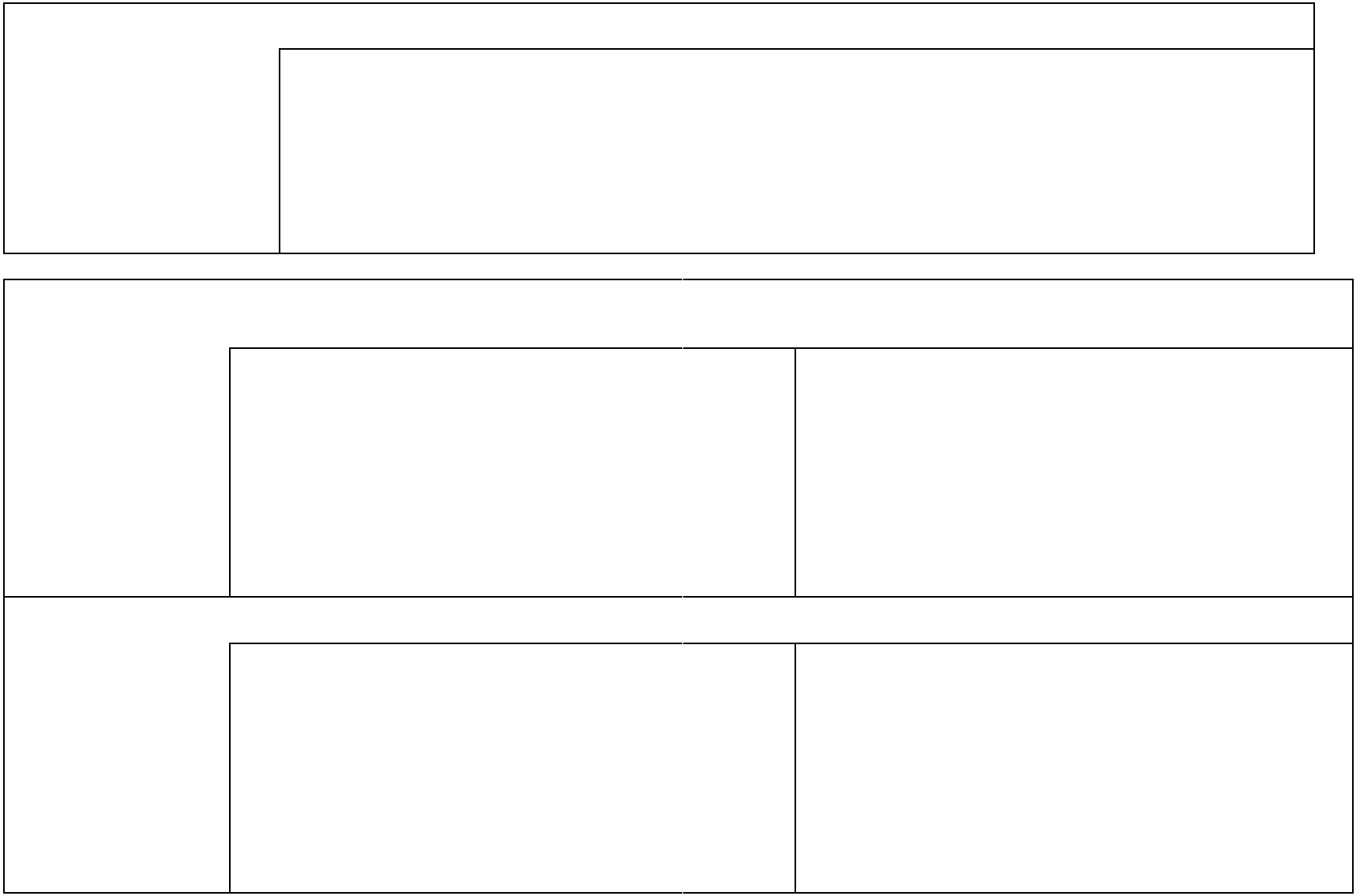
## Average Annual Solar Radiation – Nearest Available Site

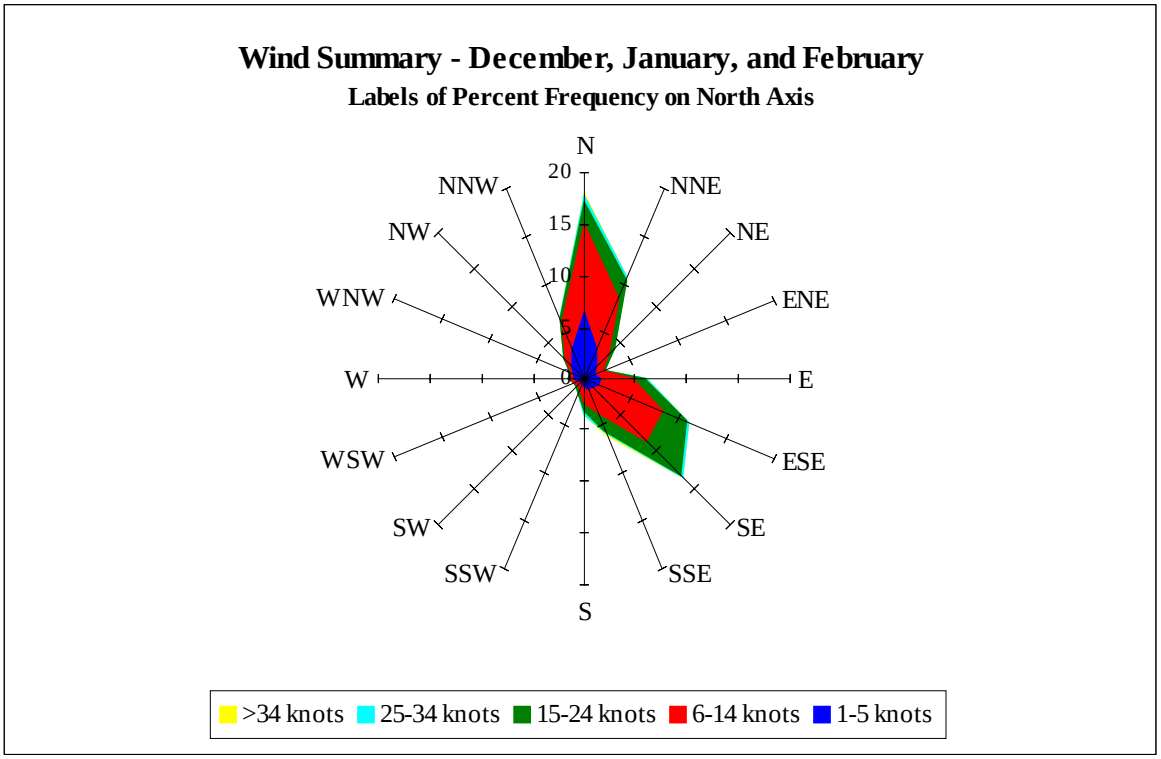
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

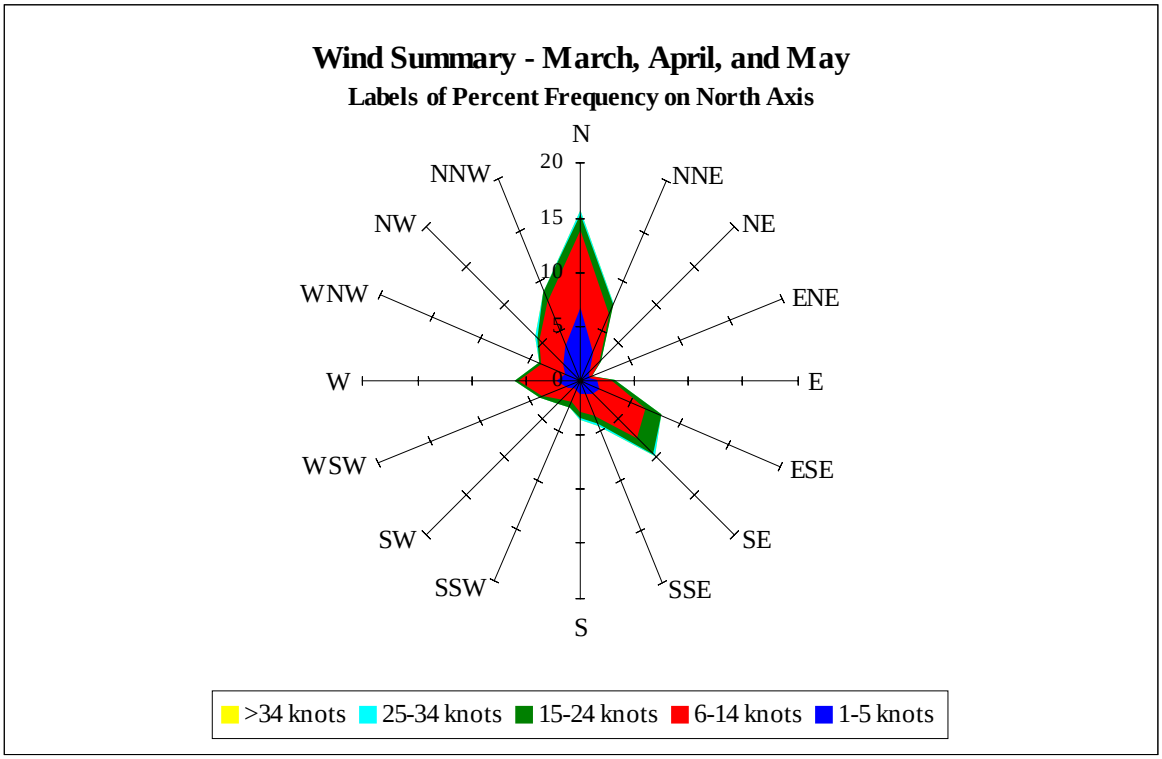
**Average Annual Solar Heat and Illumination – Nearest Available Site**

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

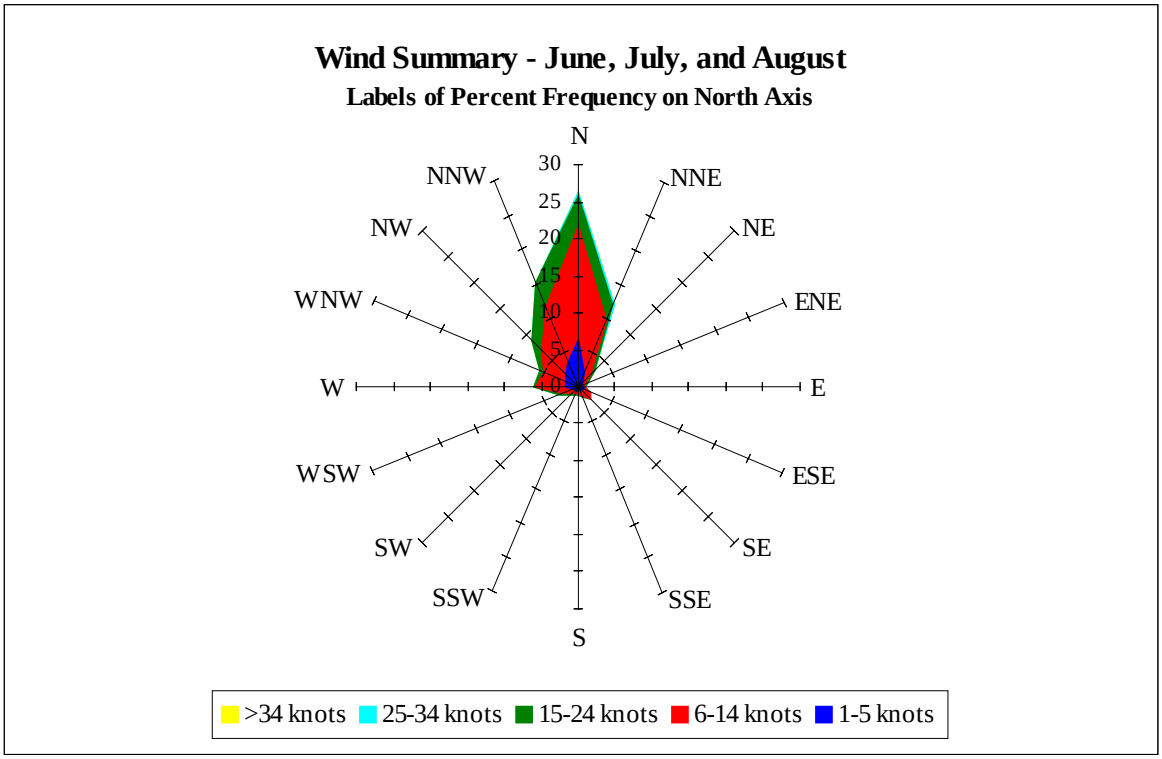




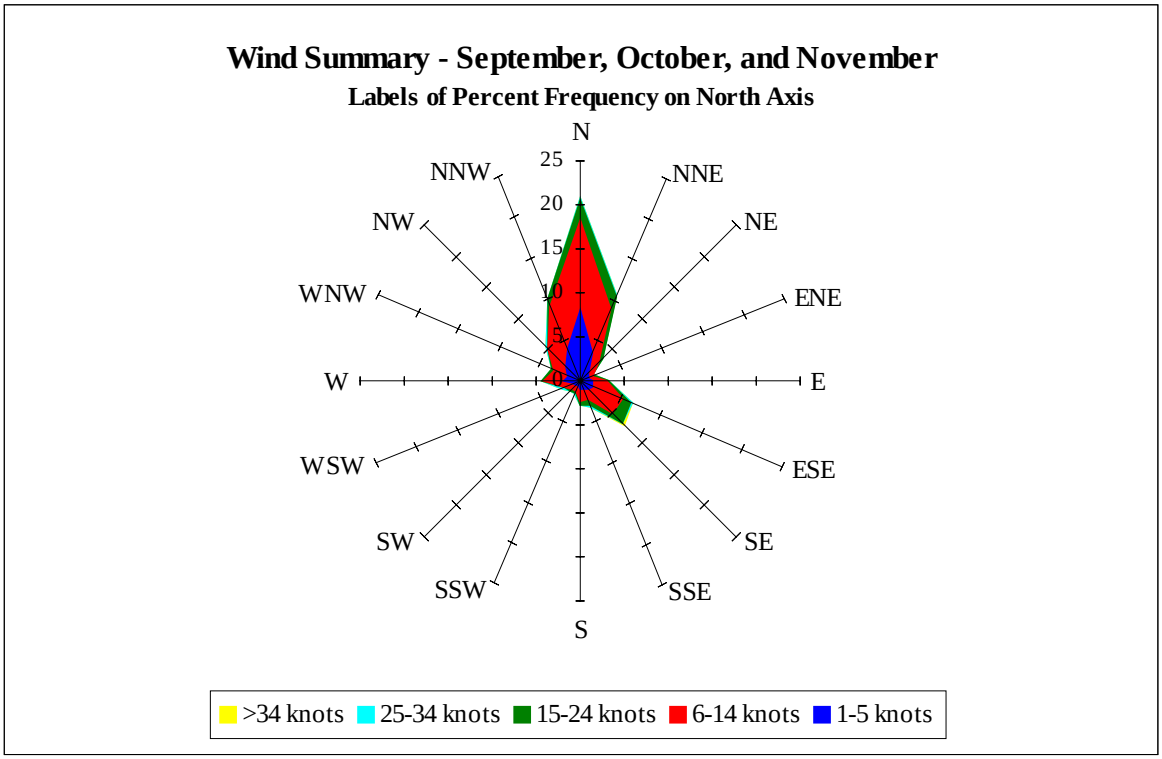

Percent Calm = 9.49




Percent Calm = 10.85




Percent Calm = 9.55




Percent Calm = 12.98