## LAKE TAHOE, CA, USA

WMO#: 725847 1912 Lat: 38.89N Long: 120.00W Elev: StdP: 80.37 Time Zone: -8.00 (NAP) Period: 00-10 WBAN: 93230 Annual Heating and Humidification Design Conditions Humidification DP/MCDB and HR Coldest month WS/MCDB Heating DB Coldest 99.6% to 99.6% DB Month 99.6% 99% HR MCDB HR MCDB WS MCDB MCDB **MCWS PCWD** (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (1) (m) (n)(0) 11.7 2.7 190 1 -16.2 -12.9-19.1 0.9 -8.3 -17.2 1.0 -7.1 10.4 2.9 1.2 (1) (1) ling, Dehumidification, and Enthalpy Design Conditions Annual C Hottest Cooling DB/MCWB Evaporation WB/MCDB MCWS/PCWD Hottest Month to 0.4% DB Month DB Range DB MCWB DB MCWB DB MCWB WB MCDB MCDB WB MCDB MCWS PCWD (a) (b) (e) (k) (c) (d) (f) (q) (h) (i)(1)(m) (0) (p) (i) (n) 7 19.9 28.8 13.7 27.6 13.0 26.5 12.5 15.4 25.7 14.5 25.0 13.6 24.3 3.7 30 (2) (2) Dehumidification DP/MCDB and HR Enthalpy/MCDB Hours 0.4% 2% 8 to 4 & 0.4% DP MCDB DP MCDB DP MCDB MCDB MCDB Enth MCDB HR Enth Enth HR HR 12.8/20.6 (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (1) (m) (n) (0) (p) 25.5 11.7 10.8 19.0 9.9 9.6 18.4 8.4 8.6 18.0 49.5 46.4 24.6 43.6 24.0 731 (3) (3) Extreme Annual Design Conditions Extreme Extreme Annual DB n-Year Return Period Values of Extreme DB Extreme Annual WS Standard deviation Max Mear n=5 years n=10 years n=20 years n=50 years 2.5% 5% WB Min Max Min Max Min Max Min Min Max Min Max 1% Max (a) (b) (c) (e) (h) (i) (k) (1) (m) (d) (f) (q) (i) (n) (0) (p) 9.4 8.2 7.2 18.4 -21.6 31.6 1.8 1.0 -22.9 32.4 -23.9 33.0 -24.9 33.5 -26.2 34.3 (4) (4) Monthly Climatic Design Conditions Sep Annual Jan Feb Apr May Jun Jul Aug Oct Nov Dec (i) (d) (e) (f)(g) (h) (j) (k) (1)(m) (n) (0) (p) 6.5 -1.8 -1.0 1.6 3.7 8.8 12.7 17.0 15.6 12.1 7.4 2.4 -0.9 (5) Tavg (5) (6) Sd 3.91 3.54 4.04 3.79 3.73 3.00 2.30 2.25 3.02 3.49 4.04 4.05 (6) 308 HDD10.0 1878 365 261 189 68 11 0 15 92 228 339 (7) 1 (7) Temperatures. 297 168 186 478 HDD18.3 4331 623 542 519 438 54 88 341 597 (8) (8) Degree-Days and CDD10.0 604 0 0 0 1 30 93 217 174 79 10 0 0 (9) (9) Degree-Hours 15 0 0 0 0 0 0 12 3 0 0 0 0 (10) CDD18.3 (10) 0 0 0 0 19 118 631 430 141 3 0 0 CDH23.3 1342 (11)(11)(12)CDH26.7 228 0 0 0 0 2 12 134 69 11 0 0 0 (12)PrecAvg 560 99 86 71 38 28 15 10 13 16 31 68 87 (13)(13)580 326 278 198 76 67 68 65 37 212 210 700 (14)PrecMax 1279 (14)Precipitation PrecMin 251 13 11 16 6 2 1 1 2 17 1 7 (15)(15)PrecSD 264.6 143.5 93.0 65.8 42.2 18.8 20.2 17.0 18.7 12.1 52.7 65.4 146.1 (16) (16) 16.5 26.1 27.9 31.2 27.8 22.8 17.4 12.7 (17)DB 11.0 12.2 20.1 30.3 (17)0.4% **MCWB** 3.1 4.0 6.7 8.7 11.4 13.0 14.6 13.3 11.8 10.5 8.6 5.1 (18)(18) Monthly Design DB 8.7 9.1 14.1 17.4 22.7 26.2 29.2 28.3 26.4 20.8 14.1 9.8 (19)(19)Dry Bulb 2% (20) and **MCWB** 2.7 2.8 5.6 7.6 10.5 12.1 14.4 13.0 11.5 9.3 6.3 3.2 (20) Mean Coincident DB 7.2 7.6 12.2 15.1 21.1 24.4 28.0 27.3 25.0 19.0 12.5 7.9 (21)(21)5% Wet Bulb 1.8 9.9 11.0 8.4 5.1 MCWB 2.0 4.9 6.1 11.3 13.6 12.7 2.8 (22)(22)Temperatures 18.8 17.3 10.5 DB 5.5 6.1 9.8 12.6 22.9 27.1 26.1 23.2 6.2 (23) (23)10% (24) **MCWB** 1.2 1.5 3.3 5.3 9.1 10.8 13.2 12.3 10.5 7.8 4.1 1.9 (24)WB 4.5 5.0 7.9 9.9 12.9 14.7 17.3 15.3 13.8 11.9 9.5 6.7 (25) (25) 0.4% 8.5 10.0 15.1 18.2 25.1 26.6 25.5 2<u>4.2</u> 18.7 15.9 10.2 (26) **MCDB** 21.8 (26)Monthly Design WB 3.3 3.8 6.5 8.0 11.5 13.4 16.2 14.5 12.4 10.4 7.3 4.8 (27)(27)Wet Bulb 2% MCDB 7.0 7.9 13.2 16.4 21.1 23.8 25.7 25.2 24.4 18.7 13.1 8.0 (28)and (28)Mean Coincident 2.5 2.7 5.2 10.3 12.3 15.2 13.8 11.6 6.7 9.2 5.9 3.4 (29)WB (29) 5% Dry Bulb MCDB 5.9 6.4 11.5 14.3 19.6 22.5 25.8 24.8 23.8 17.5 11.1 6.6 (30)(30)Temperatures (31) WB 1.6 1.7 3.9 5.5 9.4 11.5 14.3 13.0 10.7 8.0 4.7 2.4 (31) 10% 9.0 18.0 22.6 16.1 9.7 5.6 (32)**MCDB** 4.7 5.2 12.3 21.6 24.7 24.3 (32) 12.7 12.0 13.2 12.8 15.8 18.4 19.9 20.2 20.4 16.7 14.0 12.1 MDBR (33)(33)15.5 15.6 17.2 18.6 20.4 21.6 21.1 22.1 23.7 21.2 17.7 14.7 (34)MCDBR (34)Mean Daily 5% DB Temperature **MCWBR** 10.3 10.0 9.7 9.8 9.7 9.8 9.0 9.8 11.1 11.4 10.8 9.5 (35) (35)Range (36) MCDBR 13.7 13.4 16.7 18.1 19.8 20.1 19.2 20.2 22.5 19.7 16.5 12.7 (36)5% WB 9.6 8.9 9.8 9.8 9.8 9.4 8.5 9.4 10.8 10.9 10.5 8.8 MCWBR (37) (37)0.268 0.278 0.255 0.254 0.257 0.269 0.275 0.289 0.268 0.264 0.262 0.275 (38) taub (38) Clear Sky 2.629 2.559 2.635 2.629 2.668 2.661 2.665 2.675 2.722 2.669 2.674 2.618 (39)taud (39)Solar 932 960 1009 1027 1025 1017 1010 999 983 938 917 905 (40) Ebn,noon (40) Irradiance 83 64 64 Edh,noon 68 85 91 90 90 89 86 77 74 (41) (41)

Nomenclature: See separate page