

## LAKE TAHOE, CA, USA

WMO#: 725847

Lat: 38.89N

Long: 120.00W

Elev: 6273

StdP: 11.66

Time Zone: -8 (NAP)

Period: 00-10

WBAN: 93230

## Annual Heating and Humidification Design Conditions

Coldest Month	Heating DB		Humidification DP/MCDB and HR						Coldest month WS/MCDB				MCWS/PCWD to 99.6% DB	
			99.6%			99%			0.4%		1%			
	99.6%	99%	DP	HR	MCDB	DP	HR	MCDB	WS	MCDB	WS	MCDB	MCWS	PCWD
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1	2.9	8.8	-2.3	6.1	17.1	1.0	7.3	19.2	26.1	36.8	23.4	37.2	2.8	190

## Annual Cooling, Dehumidification, and Enthalpy Design Conditions

Hottest Month	Hottest Month DB Range	Cooling DB/MCWB						Evaporation WB/MCDB						MCWS/PCWD to 0.4% DB	
		0.4%		1%		2%		0.4%		1%		2%			
		DB	MCWB	DB	MCWB	DB	MCWB	WB	MCDB	WB	MCDB	WB	MCDB	MCWS	PCWD
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
7	35.7	83.9	56.7	81.8	55.4	79.7	54.5	59.7	78.3	58.1	76.9	56.5	75.7	8.2	30

Dehumidification DP/MCDB and HR									Enthalpy/MCDB						Hours 8 to 4 & 55/69
0.4%			1%			2%			0.4%		1%		2%		
DP	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	Enth	MCDB	Enth	MCDB	Enth	MCDB	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
53.0	75.6	66.2	49.8	67.1	65.1	47.0	60.3	64.4	29.0	77.9	27.6	76.3	26.5	75.3	731

## Extreme Annual Design Conditions

Extreme Annual WS			Extreme Max WB	Extreme Annual DB				n-Year Return Period Values of Extreme DB							
				Mean		Standard deviation		n=5 years		n=10 years		n=20 years		n=50 years	
1%	2.5%	5%		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
21.0	18.3	16.0	65.1	-6.9	88.9	3.2	1.9	-9.2	90.2	-11.1	91.3	-12.8	92.4	-15.1	93.7

## Monthly Climatic Design Conditions

		Annual (d)	Jan (e)	Feb (f)	Mar (g)	Apr (h)	May (i)	Jun (j)	Jul (k)	Aug (l)	Sep (m)	Oct (n)	Nov (o)	Dec (p)
(5) Temperatures, Degree-Days and Degree-Hours	Tavg	43.7	28.8	30.2	34.9	38.7	47.8	54.9	62.6	60.1	53.9	45.2	36.3	30.3
	Sd	7.04	6.37	7.27	6.82	6.71	5.41	4.15	4.05	5.44	6.28	7.28	7.29	
	HDD50	3380	657	555	470	341	123	20	0	1	27	166	410	610
	HDD65	7795	1122	975	935	789	534	303	97	158	334	613	860	1075
	CDD50	1088	0	0	0	1	54	168	391	313	143	18	0	0
	CDD65	27	0	0	0	0	0	0	22	5	0	0	0	0
	CDH74	2415	0	0	0	0	35	213	1135	774	253	5	0	0
(13) Precipitation	CDH80	411	0	0	0	0	3	21	242	125	20	0	0	0
	PrecAvg	22.0	3.9	3.4	2.8	1.5	1.1	0.6	0.4	0.5	0.6	1.2	2.7	3.4
	PrecMax	50.4	22.8	12.8	10.9	7.8	3.0	2.6	2.7	2.6	1.5	8.4	8.3	27.6
	PrecMin	9.9	0.5	0.4	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.7	0.3
(17) Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures	PrecSD	10.4	5.7	3.7	2.6	1.7	0.7	0.8	0.7	0.7	0.5	2.1	2.6	5.8
	0.4%	DB	51.8	54.0	61.7	68.1	78.9	82.3	88.2	86.5	82.1	73.1	63.3	54.8
		MCWB	37.5	39.2	44.0	47.6	52.6	55.4	58.3	55.9	53.2	51.0	47.6	41.2
	2%	DB	47.7	48.4	57.4	63.4	72.9	79.2	84.5	82.9	79.4	69.5	57.4	49.6
		MCWB	36.9	37.0	42.2	45.7	50.9	53.8	57.9	55.4	52.7	48.8	43.3	37.8
	5%	DB	45.0	45.7	54.0	59.2	69.9	75.9	82.4	81.2	77.1	66.1	54.4	46.1
		MCWB	35.2	35.6	40.8	42.9	49.8	52.3	56.5	54.9	51.8	47.1	41.2	37.0
	10%	DB	41.9	42.9	49.7	54.8	65.9	73.2	80.9	79.0	73.8	63.1	50.9	43.2
		MCWB	34.1	34.6	38.0	41.5	48.4	51.5	55.8	54.1	51.0	46.1	39.4	35.4
(25) Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures	0.4%	WB	40.2	40.9	46.3	49.8	55.2	58.4	63.1	59.5	56.8	53.4	49.0	44.0
		MCDB	47.4	49.9	59.2	64.8	71.2	77.1	80.0	77.9	75.5	65.6	60.5	50.3
	2%	WB	38.0	38.8	43.6	46.5	52.7	56.0	61.1	58.2	54.4	50.7	45.2	40.6
		MCDB	44.6	46.2	55.7	61.5	70.0	74.8	78.3	77.3	75.9	65.7	55.5	46.4
	5%	WB	36.6	36.9	41.3	44.1	50.6	54.2	59.4	56.8	52.9	48.6	42.7	38.1
		MCDB	42.5	43.6	52.8	57.8	67.3	72.6	78.4	76.7	74.8	63.4	52.0	43.9
	10%	WB	34.9	35.0	39.0	41.9	48.9	52.6	57.7	55.3	51.3	46.4	40.5	36.3
		MCDB	40.4	41.4	48.2	54.1	64.4	70.8	76.5	75.8	72.7	60.9	49.4	42.1
(33) Mean Daily Temperature Range	5% DB	MDBR	22.9	21.7	23.8	23.0	28.5	33.1	35.7	36.3	36.7	30.1	25.2	21.8
		MCDBR	27.9	28.1	30.9	33.5	36.8	38.9	38.0	39.8	42.7	38.2	31.9	26.4
		MCWBR	18.5	17.9	17.5	17.7	17.5	17.7	16.3	17.7	19.9	20.5	19.4	17.2
	5% WB	MCDWR	24.6	24.2	30.0	32.6	35.7	36.2	34.5	36.4	40.6	35.4	29.7	22.8
		MCWBR	17.3	16.1	17.6	17.7	17.7	17.0	15.2	16.9	19.5	19.6	18.9	15.9
(38) Clear Sky Solar Irradiance	taub		0.268	0.278	0.264	0.255	0.254	0.257	0.262	0.269	0.275	0.289	0.275	0.268
	taud		2.629	2.559	2.635	2.629	2.668	2.661	2.665	2.675	2.722	2.669	2.674	2.618
	Ebn,noon		296	305	320	326	325	322	320	317	312	298	291	287
	Edh,noon		21	26	27	29	28	29	28	27	24	23	20	20

Nomenclature:

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