

STOCKTON METROPOLITAN, CA

Latitude = 37.89 N

Longitude = 121.24 W

Period of Record = 1988 To 2017

Station ID = ICAO_KSCK

Elevation = 33 Feet

Average Pressure = 29.96 inches Hg

Design Criteria Data

Dry Bulb Temperature (T)	Mean Coincident (Average) Values				
	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	107	73	65	9.8	NW
0.4% Occurrence	101	70	60	9.9	NW
1.0% Occurrence	98	69	59	9.8	NW
2.0% Occurrence	95	68	58	10	WNW
Mean Daily Range	25	-	-	-	ESE
97.5% Occurrence	36	35	28	3.9	ESE
99.0% Occurrence	33	32	25	3.5	E
99.6% Occurrence	30	29	21	3.1	ESE
Median of Extreme Lows	27	26	18	3	ESE

Wet Bulb Temperature (T_{wb})	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	75	97	93	9.5	NW
0.4% Occurrence	73	96	82	9.6	NW
1.0% Occurrence	71	94	74	9.9	WNW
2.0% Occurrence	69	91	69	9.8	WNW

Humidity Ratio (HR)	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	92	84	0.62	8.4	NW
0.4% Occurrence	90	86	0.61	8.8	WNW
1.0% Occurrence	81	80	0.54	8.7	WNW
2.0% Occurrence	78	78	0.52	8.7	WNW

Air Conditioning/ Humid Area Criteria	Threshold	$T \geq 93^{\circ}\text{F}$	$T \geq 80^{\circ}\text{F}$	$T_{wb} \geq 73^{\circ}\text{F}$	$T_{wb} \geq 67^{\circ}\text{F}$
	# of Hours	277	1230	55	469

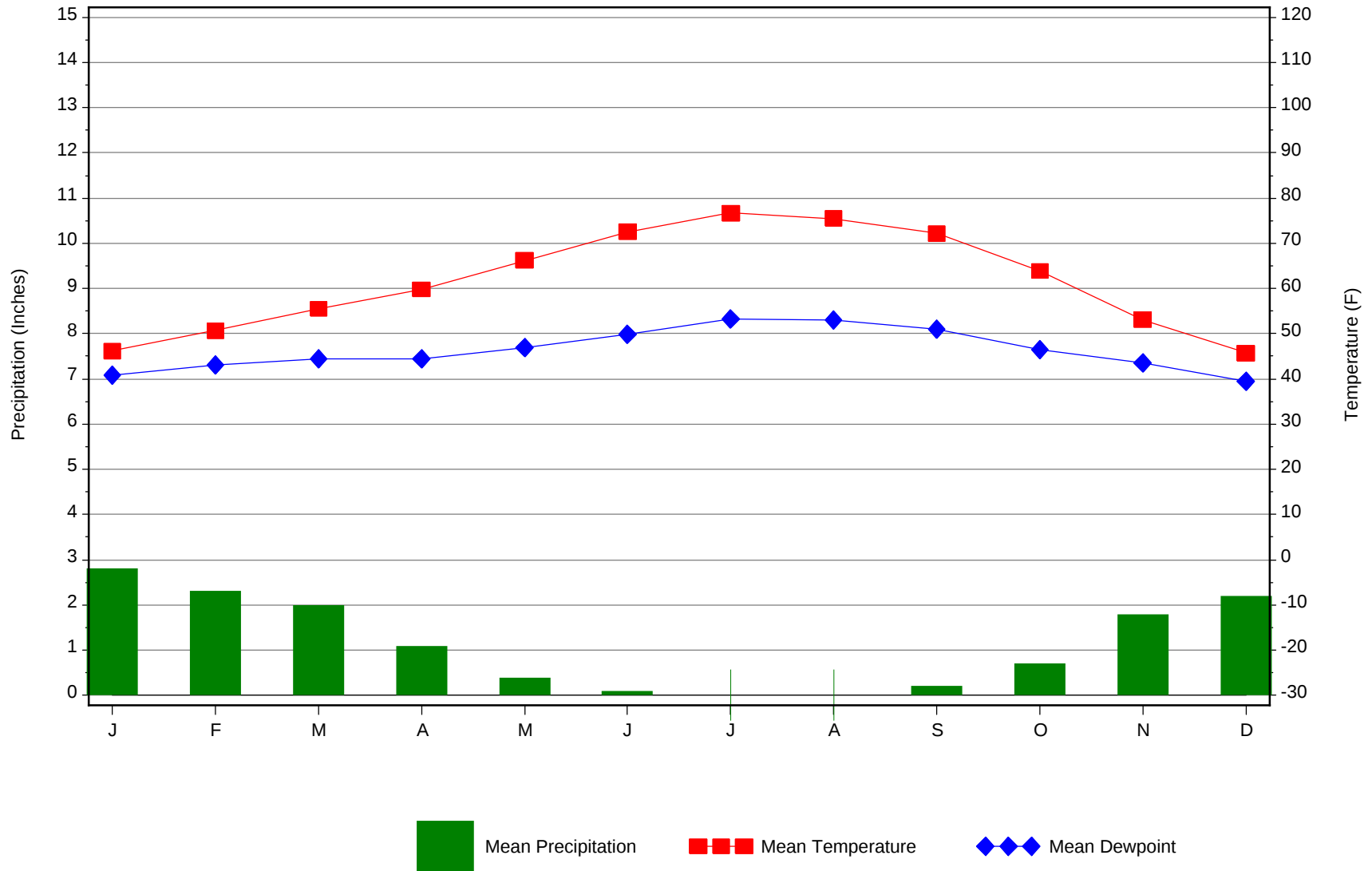
Other Site Data

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	1.3	85	0.1 + 1.5
Ground Water Temperature (°F) 50 Foot Depth*	Frost Depth 50 Year Recurrence (in)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
64.1	4	0	12

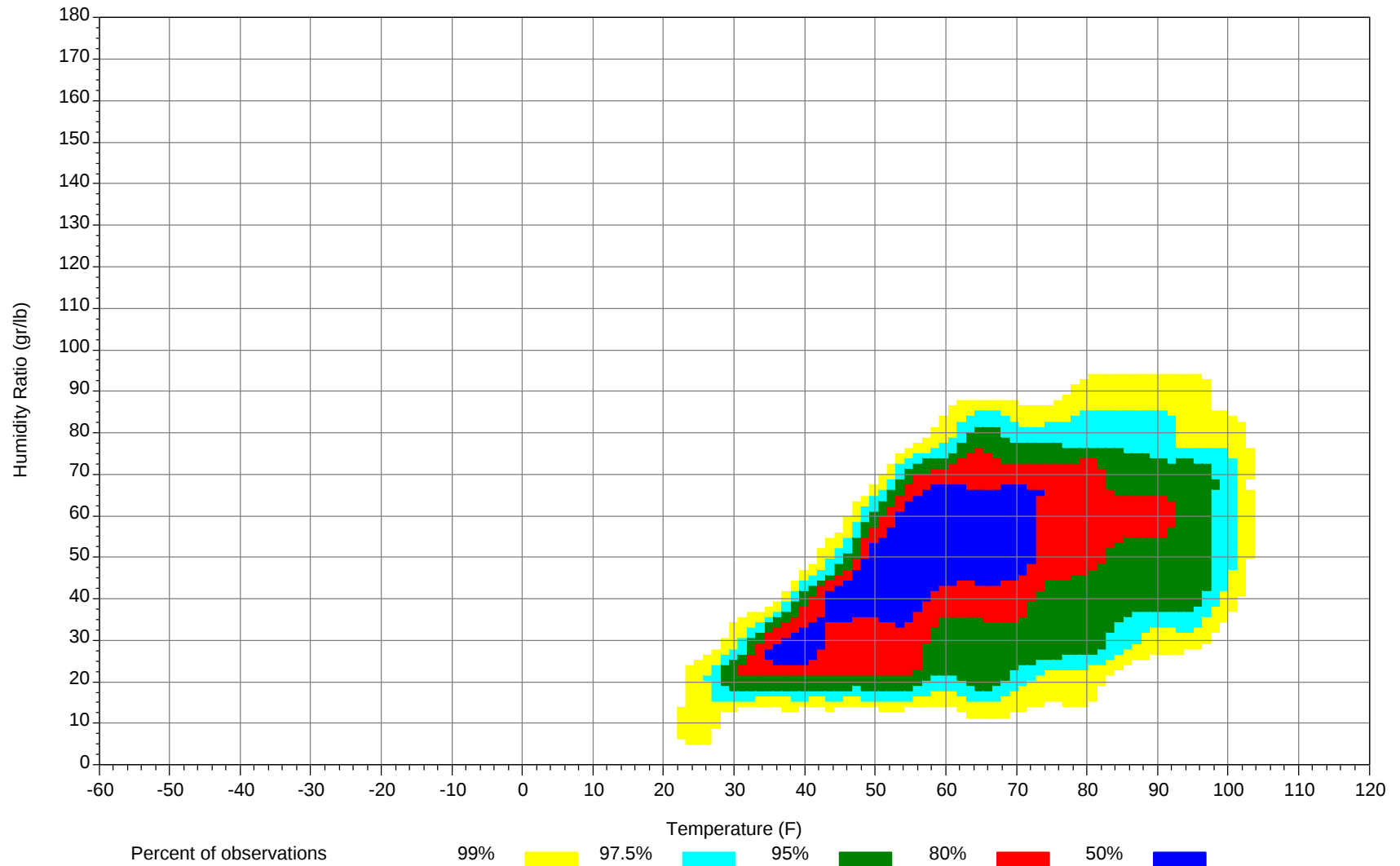
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



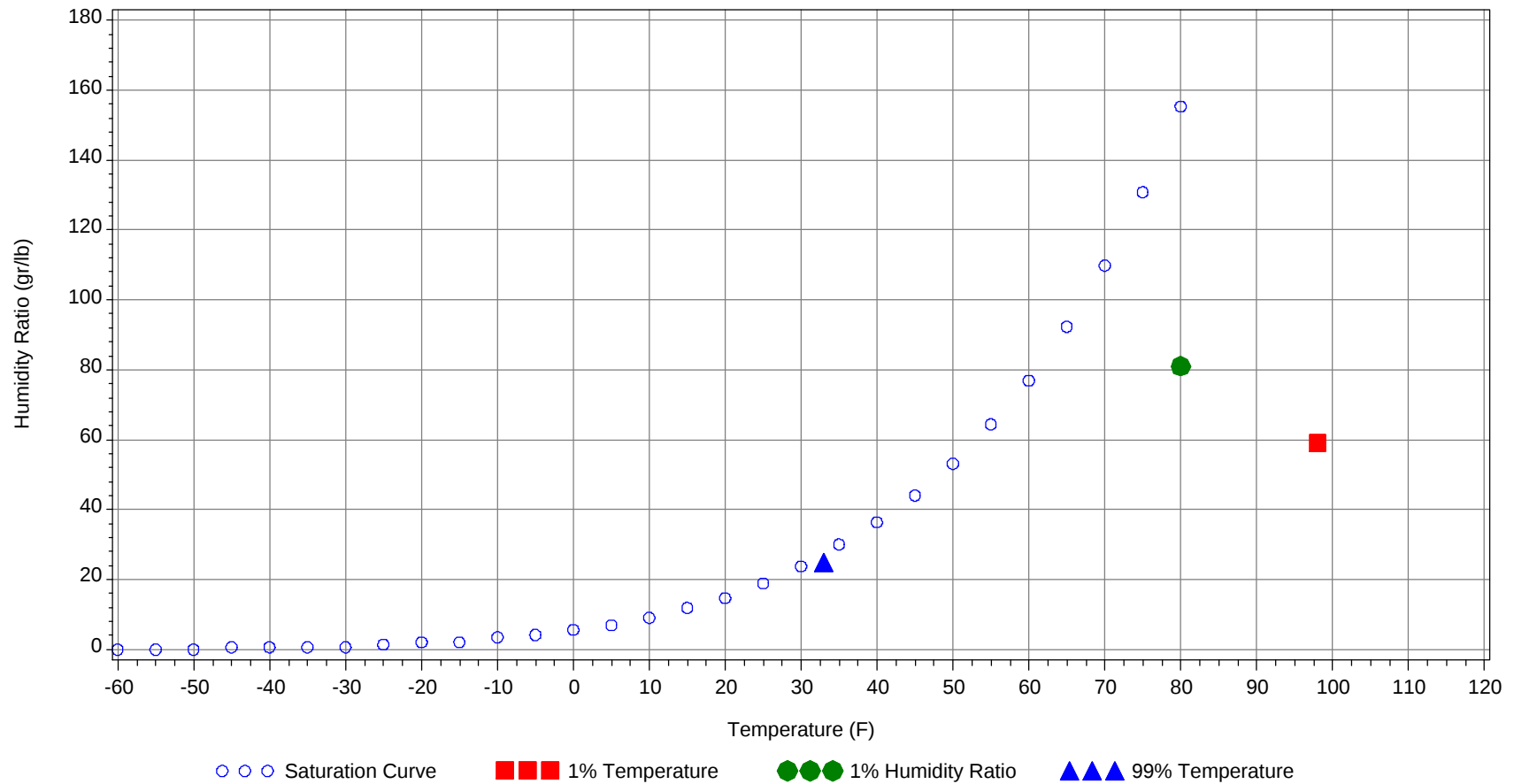
Average Annual Climate



Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values



	(° F) / (gr/lb)	MCDB (° F)	MCWB (° F)	MCDP (° F)	MCHR (gr/lb)	Enthalpy (btu/lb)
1.0% Dry Bulb	98.0		69		59.0	32.1
99.0% Dry Bulb	33.0				25.0	11.7
1.0% Humidity Ratio	81.0	80.0	67.2	60.9		31.8

Dry-Bulb Temperature Hours For An Average Year

	January					February					March				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
115/119															
110/114															
105/109															
100/104															
95/ 99															
90/ 94															
85/ 89												0	0	0	61.4
80/ 84												3	1	4	62
75/ 79		0		0	56		0		0	61.2		14	3	17	60.1
70/ 74		0		0	52.2		7	1	8	57.7		35	12	47	57.7
65/ 69	0	4	0	4	54		17	5	22	56.2		38	17	55	55.9
60/ 64	1	19	5	25	53.5	1	45	19	65	53.8	2	65	43	110	53.7
55/ 59	4	50	20	74	51.2	10	63	47	120	51.4	24	55	64	143	51.5
50/ 54	28	70	59	157	48.6	37	54	69	160	48.5	74	30	64	168	48.7
45/ 49	59	62	86	207	44.7	69	28	57	154	44.6	88	8	38	134	44.6
40/ 44	51	24	44	119	40.8	48	7	17	72	40.5	37	0	7	44	40.5
35/ 39	62	16	29	107	36.4	44	2	7	53	36.4	22	0	1	23	36.6
30/ 34	37	3	5	45	31.6	12	0	0	12	31.6	1		0	1	32.8
25/ 29	7	0	0	7	26.4	1	0	0	1	25.8	0			0	21
20/ 24	0			0	20	0		0	0	21.7					
15/ 19	0			0	18										

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.

Dry-Bulb Temperature Hours For An Average Year

	April					May					June				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
115/119															
110/114															
105/109							0		0	68.3		2	0	2	72.4
100/104							1	0	1	69.1		8	3	11	69.8
95/ 99		0	0	0	65		5	1	6	67.7		17	6	23	68
90/ 94		3	1	4	64.8		17	5	22	65.5	0	33	13	46	66.1
85/ 89		6	2	8	63.1		20	7	27	63.4	0	36	15	51	64.6
80/ 84		18	6	24	61.1	0	39	16	55	61.8	3	51	29	83	63.1
75/ 79	0	30	10	40	59.2	2	46	21	69	59.8	7	41	32	80	61.1
70/ 74	1	47	21	69	57.1	6	53	36	95	57.9	23	32	41	96	59.1
65/ 69	2	41	24	67	55.3	15	33	33	81	56.2	36	14	33	83	57.4
60/ 64	15	53	48	116	53.3	50	25	53	128	54.4	78	5	46	129	55.5
55/ 59	48	30	58	136	51.2	77	7	50	134	51.8	71	1	20	92	52.7
50/ 54	85	11	48	144	48.3	77	2	22	101	48.7	21	0	2	23	49.7
45/ 49	71	2	20	93	44.4	19		3	22	45.1	1		0	1	45.6
40/ 44	14	0	1	15	40.7	1		0	1	40.8					
35/ 39	5	0	1	6	37.1	0			0	37.3					
30/ 34	0	0		0	33.3										
25/ 29															
20/ 24															
15/ 19															

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Dry-Bulb Temperature Hours For An Average Year

	July					August					September				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
115/119		0		0	77										
110/114		0	0	0	74.7		0		0	74.7					
105/109		4	1	5	72.5		1	0	1	72.8		1	0	1	70.6
100/104		13	5	18	70.6		11	4	15	69.8		3	1	4	70
95/ 99		32	13	45	69.3		26	9	35	68.2		17	4	21	68.3
90/ 94	0	53	25	78	68		49	21	70	67		36	12	48	66.3
85/ 89	1	44	22	67	66.4	0	44	23	67	65.8	0	36	14	50	64.8
80/ 84	4	49	38	91	64.8	2	53	37	92	64.5	1	53	29	83	63.5
75/ 79	14	32	40	86	62.6	9	36	39	84	62.6	3	44	35	82	61.8
70/ 74	40	18	46	104	60.7	32	23	51	106	60.7	17	34	53	104	60
65/ 69	56	2	29	87	58.8	50	5	35	90	59	35	12	39	86	58.3
60/ 64	90	0	24	114	56.8	106	0	27	133	57	94	4	44	142	56.2
55/ 59	38	0	3	41	53.9	45		2	47	54.3	71	0	9	80	53.1
50/ 54	4	0		4	51.8	3			3	51.5	19	0	0	19	49.7
45/ 49		0		0	42						1		0	1	45.2
40/ 44		0		0	41										
35/ 39															
30/ 34															
25/ 29															
20/ 24															
15/ 19															

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Dry-Bulb Temperature Hours For An Average Year

Temperature Range (°F)	October					November					December				
	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
115/119															
110/114															
105/109															
100/104		0		0	65.5										
95/ 99		2	0	2	66.9										
90/ 94		8	1	9	65.1										
85/ 89		14	3	17	63.4										
80/ 84		36	9	45	61.5		1		1	63.7					
75/ 79	0	50	16	66	59.8		9	0	9	60.4					
70/ 74	1	54	35	90	57.9		25	4	29	58.1		0		0	61.3
65/ 69	6	37	37	80	56.4	0	30	8	38	55.7		3	0	3	56.7
60/ 64	37	35	68	140	54.7	3	61	32	96	54	1	23	4	28	53.9
55/ 59	76	11	53	140	51.9	19	56	54	129	51.6	9	53	20	82	51.3
50/ 54	80	3	21	104	48.4	54	38	70	162	48.7	29	70	53	152	48.2
45/ 49	40	0	4	44	43.9	78	17	50	145	44.4	42	51	73	166	44.1
40/ 44	6		0	6	39.6	44	3	16	63	40.2	40	26	50	116	40.3
35/ 39	1			1	36	33	1	6	40	36.2	70	18	39	127	36.1
30/ 34						9	0	1	10	31.4	46	4	8	58	31.5
25/ 29						1			1	27.3	9	0	2	11	26.1
20/ 24											2	0	0	2	20.4
15/ 19											0			0	17.7

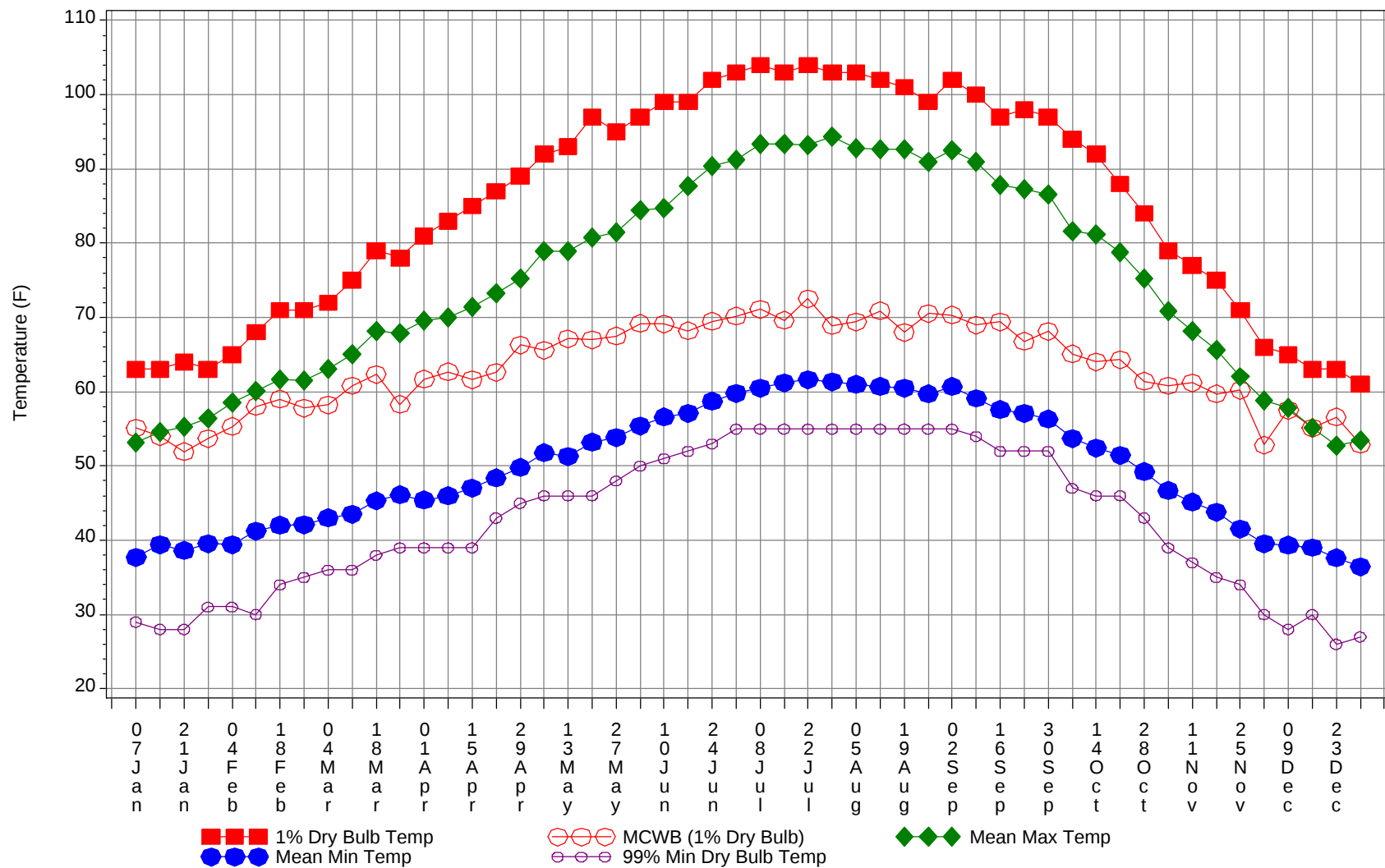
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Dry-Bulb Temperature Hours For An Average Year

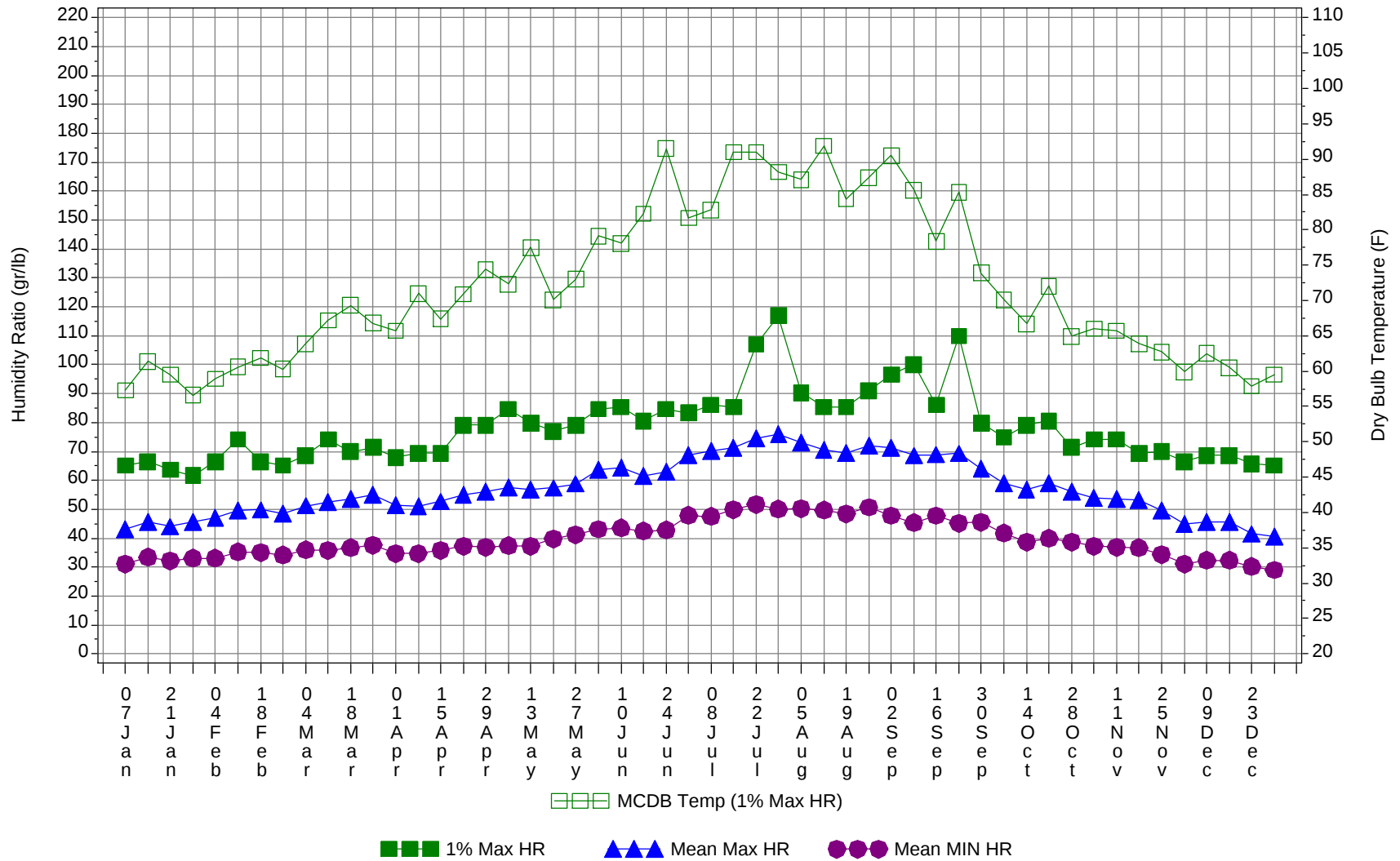
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
115/119		0		0	77
110/114		0	0	0	74.7
105/109		7	2	9	72.4
100/104		36	12	48	70.1
95/ 99		99	34	133	68.5
90/ 94	0	199	78	277	66.8
85/ 89	1	200	86	287	65.1
80/ 84	10	301	164	475	63.4
75/ 79	35	301	197	533	61.2
70/ 74	121	329	300	750	59
65/ 69	201	235	261	697	57.2
60/ 64	478	337	412	1227	55
55/ 59	492	326	400	1218	51.9
50/ 54	511	276	409	1196	48.6
45/ 49	468	168	330	966	44.5
40/ 44	241	61	134	436	40.5
35/ 39	236	37	82	355	36.3
30/ 34	105	7	14	126	31.6
25/ 29	18	1	2	21	26.3
20/ 24	2	0	0	2	20.5
15/ 19	0			0	17.7

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.

Annual Summary of Temperatures



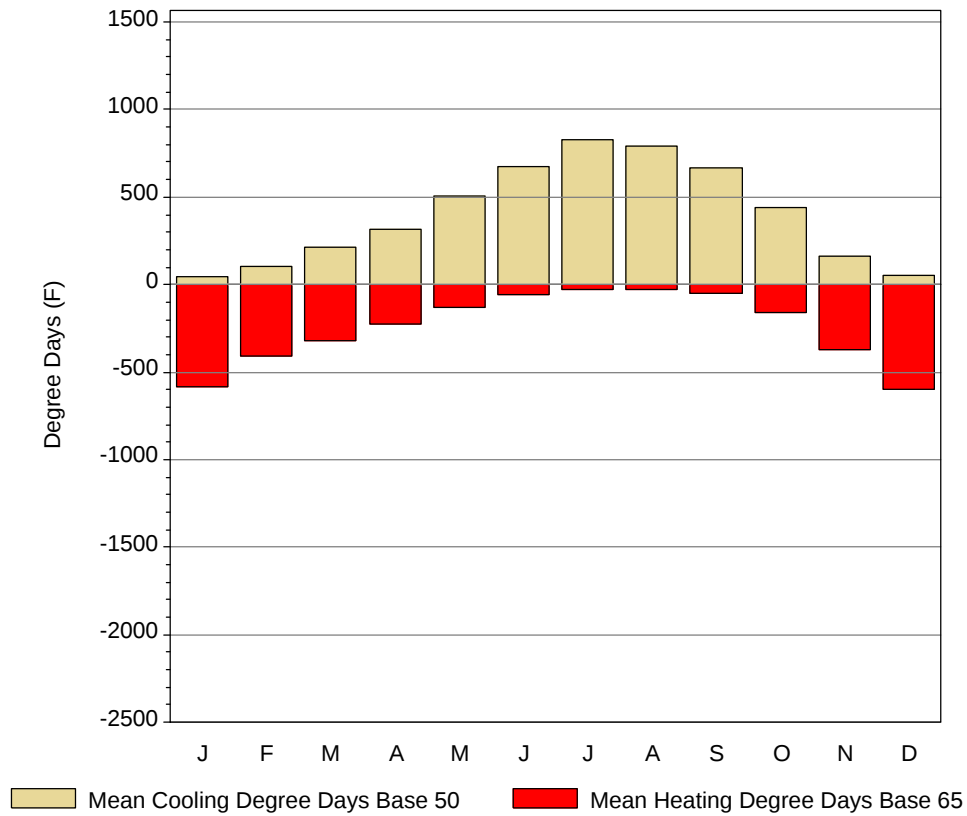
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

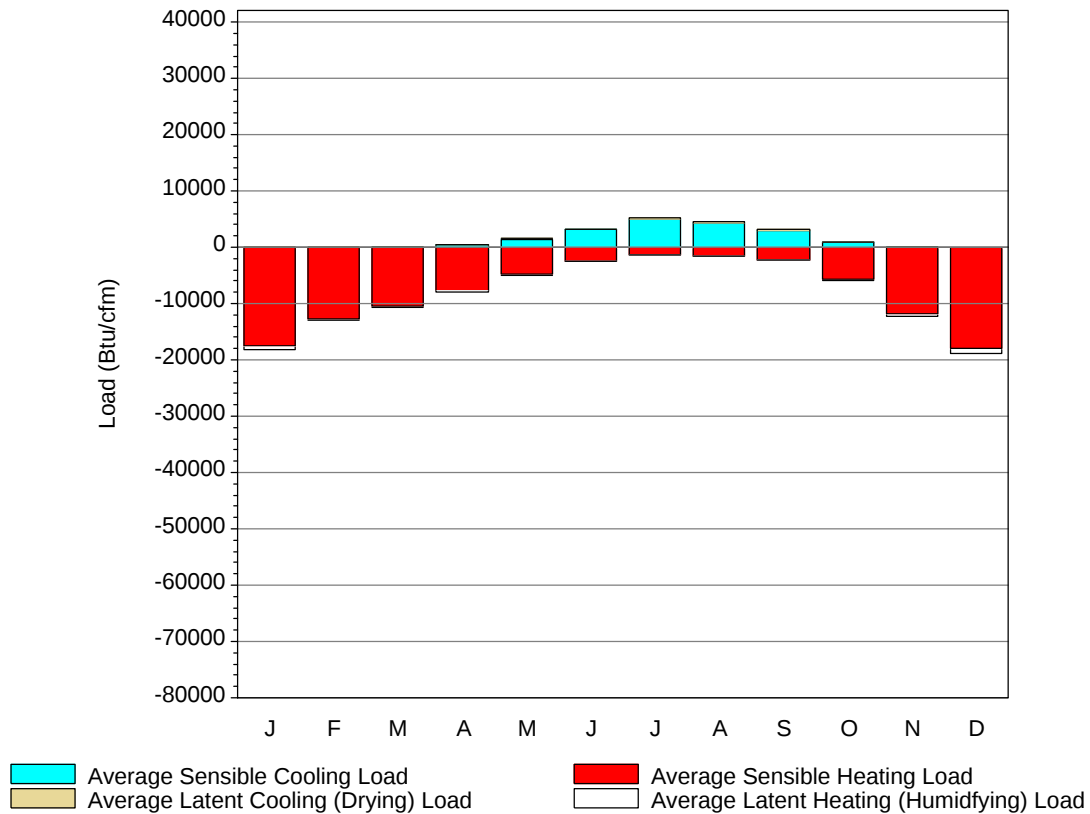
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	63	55.1	53.2	37.7	29	65.1	57.3	43	31.1
14-Jan	63	54	54.5	39.4	28	66.5	61.4	45.6	33.5
21-Jan	64	51.9	55.3	38.6	28	63.7	59.5	44	32.1
28-Jan	63	53.7	56.4	39.5	31	61.6	56.6	45.6	33
4-Feb	65	55.3	58.5	39.4	31	66.5	58.9	47.2	33
11-Feb	68	58	60.1	41.2	30	74.2	60.6	49.5	35.2
18-Feb	71	59	61.7	42	34	66.5	61.9	49.8	35.1
25-Feb	71	57.8	61.5	42.1	35	65.1	60.3	48.4	34.2
4-Mar	72	58.2	63	43	36	68.6	63.9	51.2	35.9
11-Mar	75	60.8	65.1	43.5	36	74.2	67.2	52.4	35.8
18-Mar	79	62.3	68.1	45.3	38	70	69.3	53.7	36.7
25-Mar	78	58.3	67.9	46.1	39	71.4	66.8	54.9	37.5
1-Apr	81	61.7	69.6	45.4	39	67.9	65.7	51.5	34.7
8-Apr	83	62.7	70	46	39	69.3	71	51.1	34.7
15-Apr	85	61.6	71.4	47	39	69.3	67.4	52.7	35.7
22-Apr	87	62.6	73.2	48.4	43	79.1	70.9	55	37.3
29-Apr	89	66.3	75.2	49.8	45	79.1	74.4	56.2	36.9
6-May	92	65.6	78.9	51.8	46	84.7	72.3	57.5	37.4
13-May	93	67.1	78.9	51.3	46	79.8	77.5	56.7	37.3
20-May	97	67	80.7	53.2	46	77	70.1	57.4	39.7
27-May	95	67.5	81.5	53.8	48	79.1	73	58.8	41.2
4-Jun	97	69.2	84.5	55.4	50	84.7	79.1	63.6	43.1
10-Jun	99	69.1	84.7	56.6	51	85.4	78.1	64.5	43.6
17-Jun	99	68.2	87.7	57.1	52	80.5	82.3	61.6	42.5
24-Jun	102	69.5	90.4	58.7	53	84.7	91.5	63.1	42.8
1-Jul	103	70.2	91.2	59.8	55	83.3	81.7	68.8	47.9
8-Jul	104	71.1	93.3	60.5	55	86.1	82.8	70.1	47.5
15-Jul	103	69.6	93.3	61.2	55	85.4	91	71.2	49.8
22-Jul	104	72.5	93.2	61.6	55	107.1	91	74.6	51.7
29-Jul	103	68.9	94.4	61.3	55	116.9	88.2	76.1	50
5-Aug	103	69.4	92.8	61	55	90.3	87.1	73.1	50.3
12-Aug	102	70.9	92.6	60.7	55	85.4	91.9	70.5	49.7
19-Aug	101	68	92.6	60.5	55	85.4	84.4	69.4	48.5
26-Aug	99	70.5	91	59.7	55	91	87.4	72	50.7
2-Sep	102	70.3	92.5	60.7	55	96.6	90.5	71.2	47.8
9-Sep	100	69	91	59.1	54	100.1	85.6	68.6	45.3
16-Sep	97	69.4	87.8	57.6	52	86.1	78.4	68.9	47.8
23-Sep	98	66.8	87.3	57.1	52	109.9	85.3	69.3	45.1
30-Sep	97	68.1	86.5	56.3	52	79.8	73.9	64	45.6
7-Oct	94	65.1	81.6	53.7	47	74.9	70.1	58.9	41.7
14-Oct	92	64	81.2	52.4	46	79.1	66.7	56.9	38.6
21-Oct	88	64.3	78.8	51.4	46	80.5	72	58.9	40
28-Oct	84	61.4	75.3	49.2	43	71.4	64.9	56	38.7
4-Nov	79	60.8	70.9	46.7	39	74.2	66	54	37.3
11-Nov	77	61.2	68.1	45.1	37	74.2	65.7	53.6	36.9
18-Nov	75	59.7	65.6	43.8	35	69.3	63.9	53.1	36.7
25-Nov	71	60.2	62	41.5	34	70	62.7	49.7	34.4
2-Dec	66	52.8	58.8	39.5	30	66.5	59.9	45	31.1
9-Dec	65	57.5	57.8	39.3	28	68.6	62.5	45.7	32.4
16-Dec	63	55.1	55.2	39	30	68.6	60.5	45.5	32.4
23-Dec	63	56.6	52.7	37.6	26	65.8	57.9	41.5	30.2
31-Dec	61	52.9	53.4	36.4	27	65.1	59.5	40.7	29

Degree Days, Heating and Cooling (Base 65 F) & Cooling (Base 50F)



Month	Mean Cooling Degree Days (°F) Base 50	Mean Cooling Degree Days (°F) Base 65	Mean Heating Degree Days (°F) Base 65
JAN	47.2	0.3	582.3
FEB	104.1	3.9	407.2
MAR	214.6	27.6	321.9
APR	313.8	71.3	226.5
MAY	504	166.3	130.2
JUN	673.6	280.5	57.1
JUL	827.8	389.9	27.2
AUG	789.8	355.5	30.7
SEP	666.8	269.4	52.7
OCT	437.6	123.2	158.1
NOV	161.4	15.3	371.8
DEC	50.7	0.2	597.4
ANN	4791.4	1703.4	2963.1

Average Ventilation and Infiltration Loads (Outside Air vs 75F, 60% RH summer; 68F, 30% RH winter)



Month	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	-17499	2	-598
FEB	0	-12688	2	-354
MAR	54	-10435	3	-238
APR	409	-7610	23	-266
MAY	1487	-4732	76	-140
JUN	3204	-2385	91	-51
JUL	4932	-1338	341	-5
AUG	4326	-1511	171	-5
SEP	2951	-2270	296	-38
OCT	882	-5616	26	-242
NOV	19	-11778	2	-434
DEC	0	-17890	0	-876
ANN	18264	-95752	1033	-3247

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	SACRAMENTO, CA 23232	Window:	1.000
Lat, Lon, Elev	38.52N 121.50W 26ft	Overhang:	0.491
Press, Stn_Type	14.7psia Secondary	Vert Gap:	0.313

AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day) Percentage Uncertainty = 9														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ.	Global	610	940	1370	1870	2280	2490	2520	2230	1810	1280	760	550	1560
	Std.Dev.	64	114	138	167	134	96	56	82	80	70	100	73	36
	Minimum	490	730	1070	1460	1970	2210	2330	2010	1610	1110	590	440	1460
	Maximum	750	1200	1690	2070	2460	2660	2600	2350	1920	1370	950	730	1620
	Diffuse	360	450	570	650	650	610	540	520	460	410	360	320	490
Clear Day	Global	890	1240	1740	2240	2560	2690	2620	2340	1900	1390	960	790	1780
NORTH	Global	210	280	360	460	580	680	640	490	380	310	230	190	400
	Diffuse	210	280	360	440	500	510	490	440	370	310	230	190	360
Clear Day	Global	210	270	350	430	590	690	640	480	370	290	220	190	400
EAST	Global	370	570	830	1110	1300	1380	1410	1300	1110	810	480	340	920
	Diffuse	250	340	450	560	610	610	600	560	480	390	280	230	450
Clear Day	Global	620	830	1100	1340	1470	1500	1470	1380	1180	910	670	570	1090
SOUTH	Global	850	1130	1220	1140	960	850	910	1140	1430	1470	1080	820	1080
	Diffuse	360	450	530	560	550	530	520	520	510	490	400	330	480
Clear Day	Global	1690	1810	1730	1390	1050	890	940	1220	1590	1790	1720	1630	1450
WEST	Global	410	600	840	1100	1300	1380	1420	1310	1120	820	510	370	930
	Diffuse	260	350	460	560	610	610	590	560	480	390	290	230	450
Clear Day	Global	620	830	1100	1340	1470	1500	1470	1380	1180	910	670	570	1090

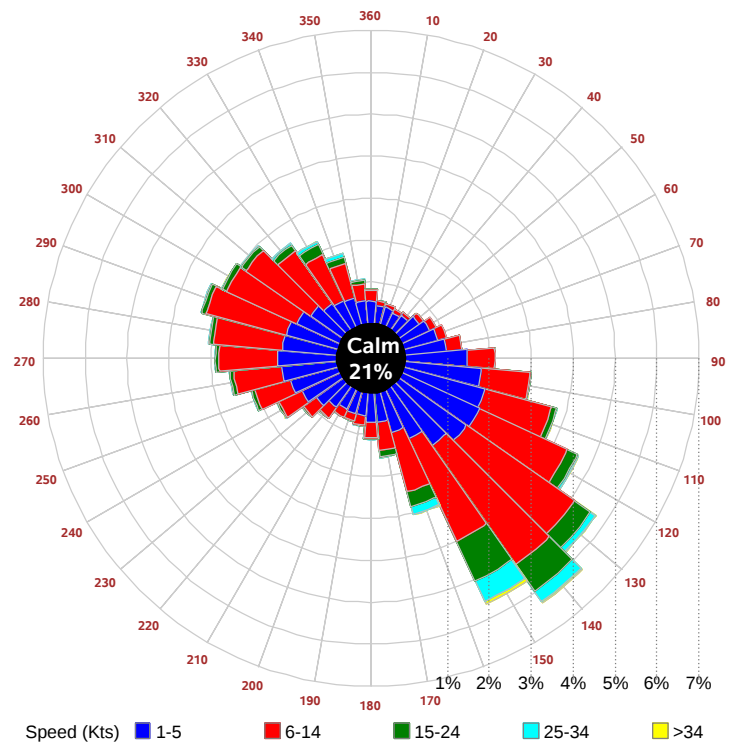
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING Percentage Uncertainty = 9														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ.	Unshaded	410	650	970	1360	1670	1830	1850	1630	1310	890	510	360	1120
NORTH	Unshaded	140	190	250	310	370	420	400	320	260	210	160	130	260
	Shaded	130	170	230	280	340	390	370	300	240	200	140	120	240
EAST	Unshaded	250	400	590	790	930	980	1010	930	790	570	330	230	650
	Shaded	220	360	520	700	810	850	880	810	700	510	300	200	570
SOUTH	Unshaded	640	820	840	730	560	480	520	690	950	1060	800	620	720
	Shaded	610	760	670	480	360	340	340	400	680	940	780	600	580
WEST	Unshaded	280	420	590	780	930	990	1010	930	800	580	350	250	660
	Shaded	250	370	530	690	800	850	880	820	710	520	310	230	580

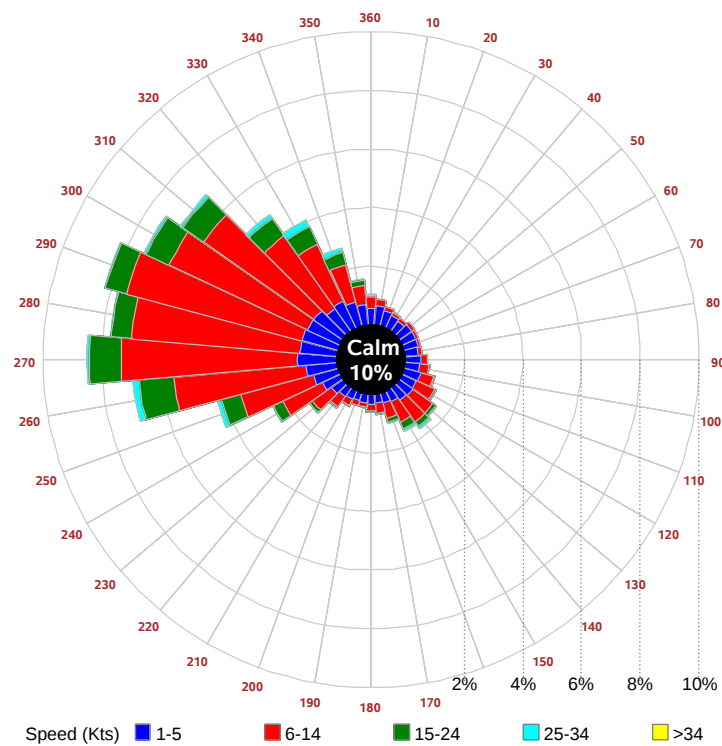
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	39	73	83	66	28	48	86	105	100	72	
	M.Cloudy	24	48	56	45	18	35	62	84	80	56	
NORTH	M.Clear	10	15	16	14	8	20	16	16	16	14	
	M.Cloudy	9	16	17	15	7	16	17	18	18	16	
EAST	M.Clear	72	57	16	14	8	81	75	32	16	14	
	M.Cloudy	30	35	17	15	7	49	51	30	18	16	
SOUTH	M.Clear	37	71	81	64	26	11	30	45	41	20	
	M.Cloudy	19	41	49	38	14	12	25	39	36	19	
WEST	M.Clear	10	15	22	66	63	11	16	16	52	83	
	M.Cloudy	9	16	20	38	27	12	17	18	44	59	
M.Clear	(% hrs)	43	41	39	40	43	77	78	76	76	76	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	28	69	89	82	51	13	40	46	29	3	
	M.Cloudy	19	47	65	61	36	8	23	26	18	2	
NORTH	M.Clear	8	14	16	15	12	5	10	11	9	2	
	M.Cloudy	8	15	17	17	12	4	10	11	8	1	
EAST	M.Clear	65	72	30	15	12	32	37	11	9	2	
	M.Cloudy	32	44	26	17	12	8	16	11	8	1	
SOUTH	M.Clear	20	56	76	69	40	29	73	82	56	5	
	M.Cloudy	13	37	55	50	27	7	24	27	19	2	
WEST	M.Clear	8	14	16	54	79	5	10	21	43	7	
	M.Cloudy	8	15	17	40	47	4	10	13	16	2	
M.Clear	(% hrs)	80	81	80	80	78	27	29	32	35	37	

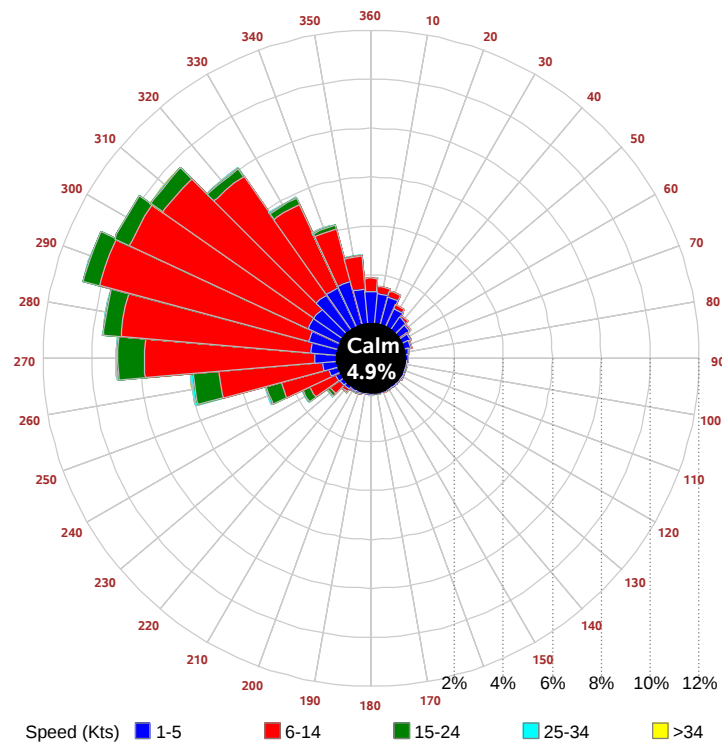
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

