MIRAMAR NAS CA	
Latitude = 32.85 N	WMO No. 722908
Longitude =117.10 W	Elevation = 420 feet
Period of Record = 1973 to 1996	Average Pressure = 29.47 inches Hg

Design Criteria Data

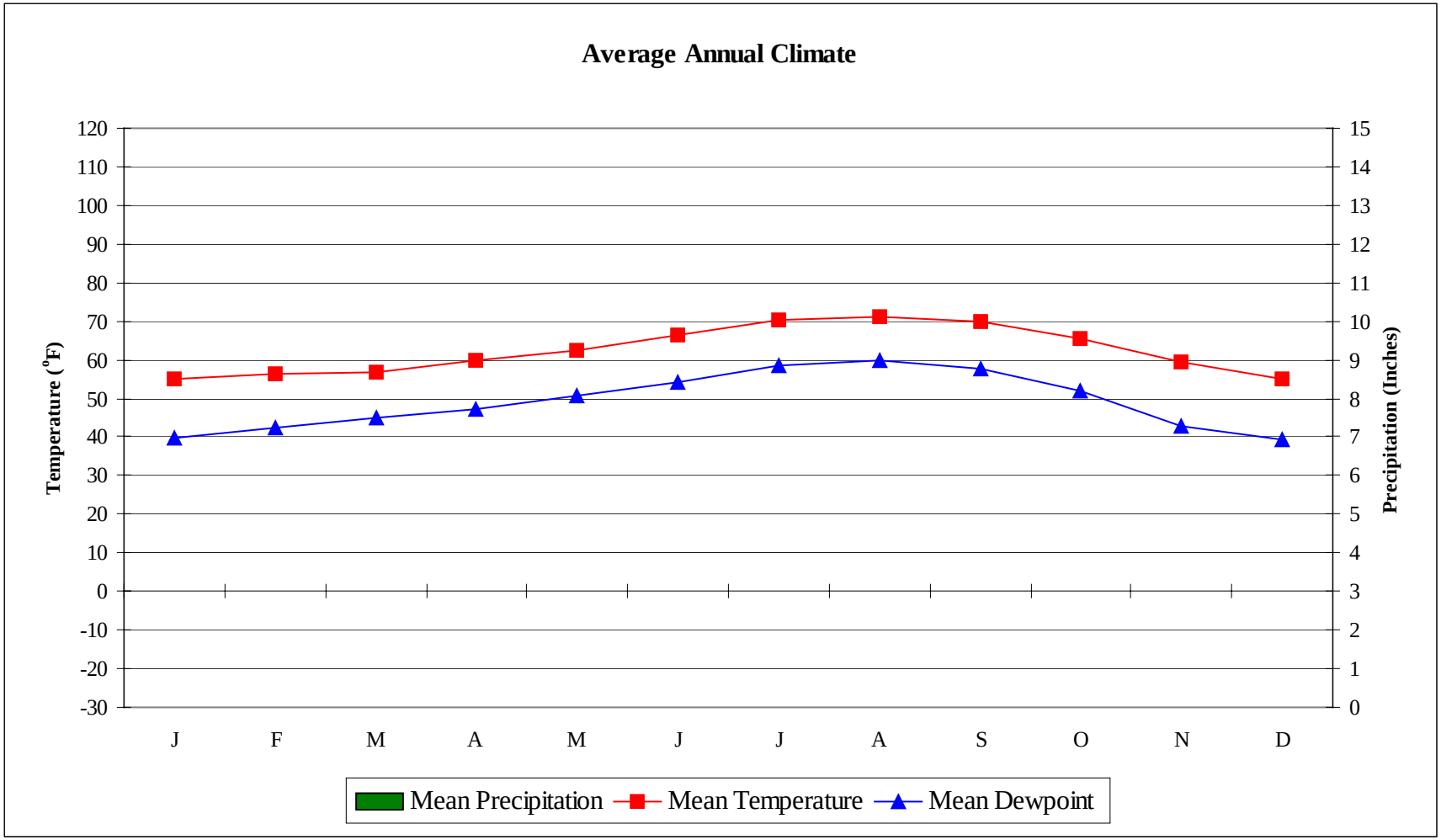
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	100	67	50	7.0	WNW
0.4% Occurrence	91	68	66	6.4	NW
1.0% Occurrence	87	67	68	6.1	NW
2.0% Occurrence	84	66	71	5.9	WNW
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	44	40	30	3.6	E
99.0% Occurrence	42	38	27	3.8	E
99.6% Occurrence	39	35	24	3.6	E
Median of Extreme Lows	35	31	19	2.8	E
		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	75	89	106	5.2	NW
0.4% Occurrence	72	85	97	5.4	WNW
1.0% Occurrence	70	82	90	5.3	WNW
2.0% Occurrence	69	80	88	5.1	WNW
		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	113	78	0.74	3.3	NW
0.4% Occurrence	101	77	0.67	3.5	WNW
1.0% Occurrence	97	76	0.65	3.8	NW
2.0% Occurrence	92	75	0.61	4.7	NW
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	26	455	20	485

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
9	N/A	N/A	0.4 + 0.5
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 (#)**
64.9	N/A	N/A	0

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

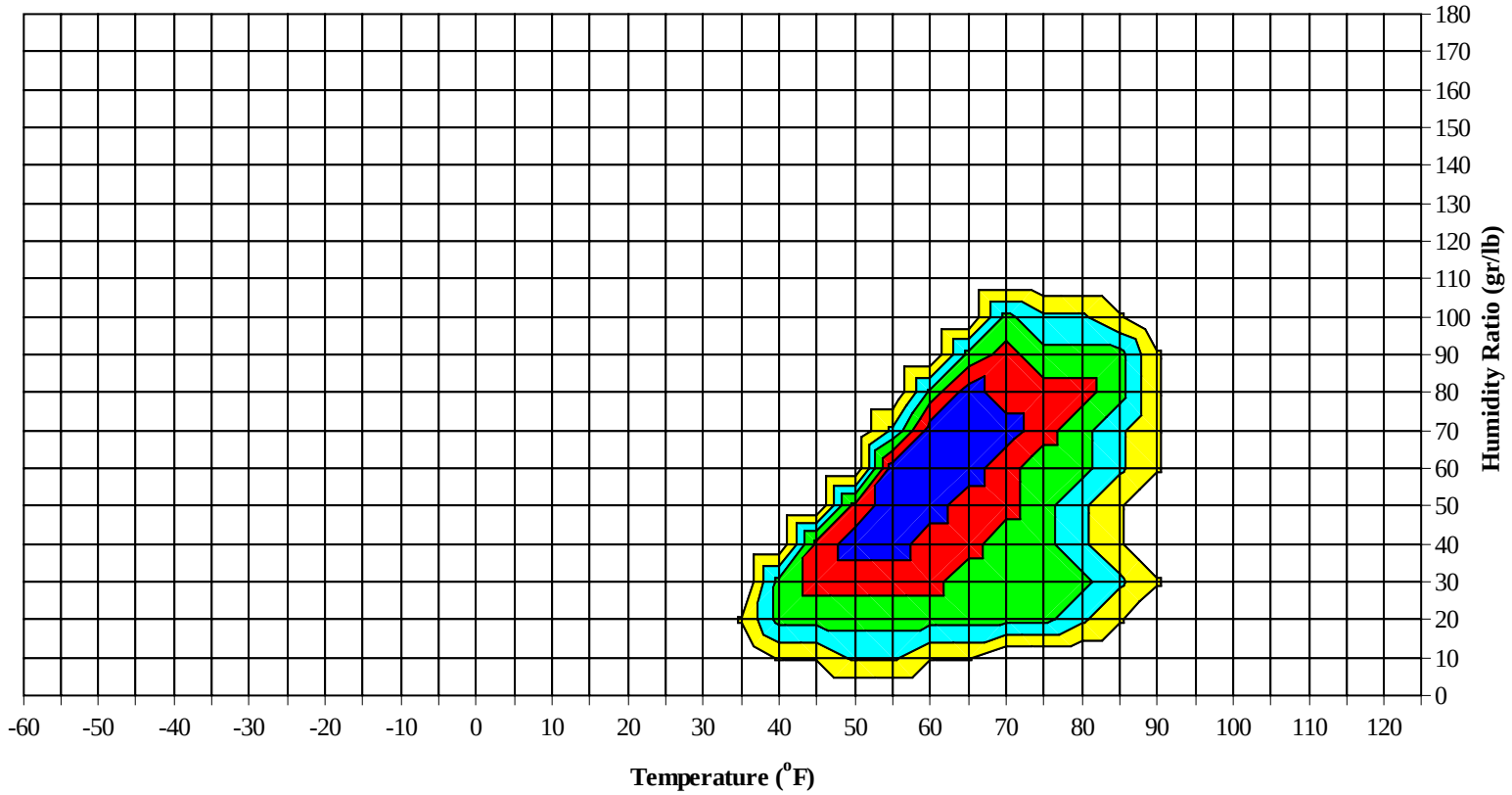
MIRAMAR NAS **CA** WMO No. 722908



No Precipitation Data Available

MIRAMAR NAS **CA** WMO No. 722908

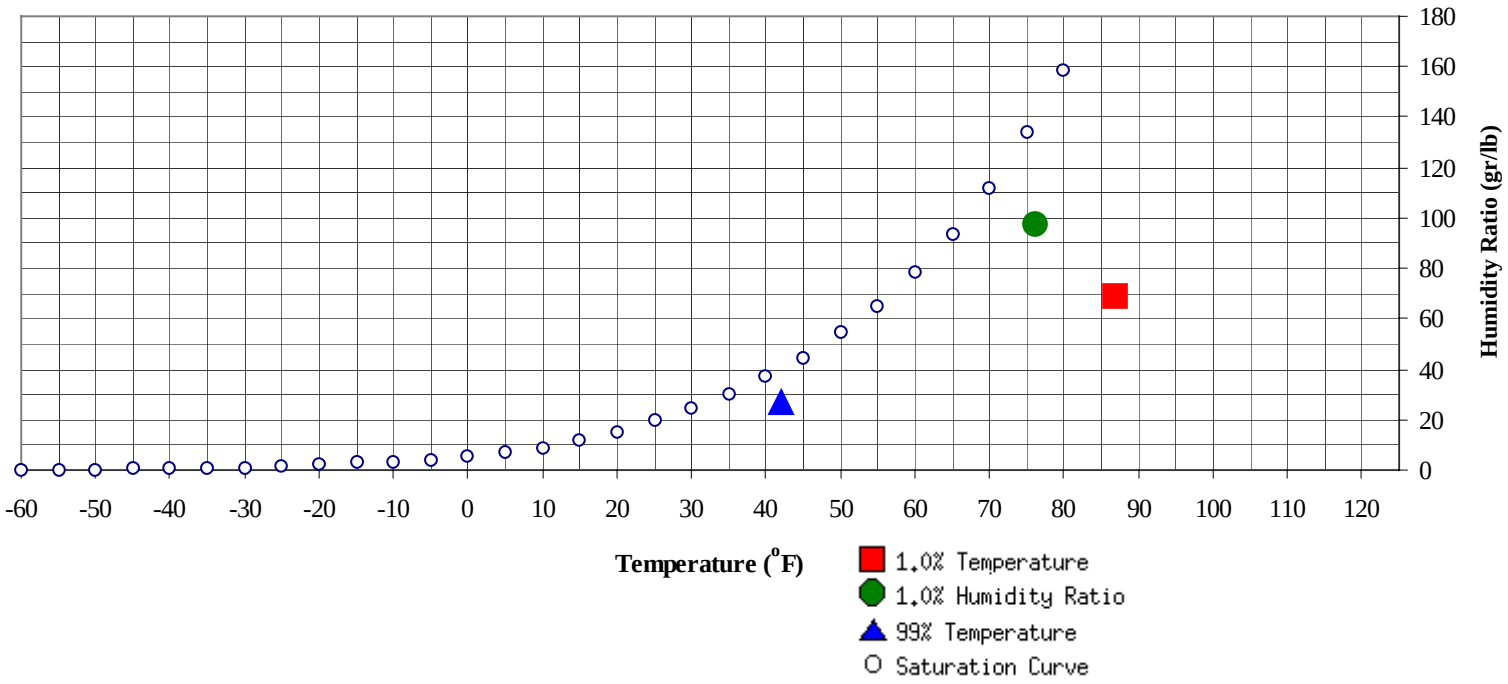
Long Term Psychrometric Summary



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

MIRAMAR NAS **CA** WMO No. 722908

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	42	27.1	14.3

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	97.3	76.2	69.2	66	33.5

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	87	68.7	67	31.7

MIRAMAR NAS CA WMO No. 722908

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

Period of Record = 1973 to 1996

Temperature Range (°F)	January Hour Group (LST) 01 To 08	January 09 To 16	January 17 To 00	January Total Obs	January MCWB (°F)	February Hour Group (LST) 01 To 08	February 09 To 16	February 17 To 00	February Total Obs	February MCWB (°F)	March Hour Group (LST) 01 To 08	March 09 To 16	March 17 To 00	March Total Obs	March MCWB (°F)
105 / 109															
100 / 104															
95 / 99												0		0	63.2
90 / 94												1		1	60.8
85 / 89		0		0	57.8		1		1	60.0	0	1	0	1	59.2
80 / 84		5		5	56.1		8	0	8	57.8	0	4	0	4	58.5
75 / 79		15	0	15	54.3	0	13	1	14	56.2	0	12	1	13	57.2
70 / 74		26	2	28	53.1	0	24	3	27	54.8	1	23	2	26	56.6
65 / 69	1	45	7	53	52.7	1	45	7	53	54.4	2	50	9	61	56.2
60 / 64	4	73	21	98	52.5	11	66	30	107	53.7	11	85	30	126	54.3
55 / 59	38	58	74	170	50.7	45	48	74	167	51.3	63	54	97	214	51.8
50 / 54	76	22	83	181	46.7	71	17	70	158	47.4	91	15	77	183	48.2
45 / 49	74	3	46	123	42.5	60	2	31	94	43.1	61	2	28	91	43.9
40 / 44	43	0	14	57	38.1	30	0	8	38	38.7	18	0	4	22	39.1
35 / 39	10	0	2	12	33.6	5	0	0	5	34.3	1			1	35.8
30 / 34	1	0	0	1	28.5	0	0		0	29.1					
25 / 29															

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.

MIRAMAR NAS CA WMO No. 722908

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

Period of Record = 1973 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															
100 / 104		0		0	66.0							1		1	65.4
95 / 99		1		1	64.1		0		0	64.5	0	2	0	2	65.3
90 / 94		1	0	1	61.9	0	1		1	63.0	0	3	0	3	65.5
85 / 89	0	3	0	3	61.9	0	3	0	3	64.1	0	10	1	11	66.5
80 / 84	0	12	1	13	61.0	0	8	1	9	63.6	1	21	3	25	66.1
75 / 79	1	19	2	22	60.0	1	24	2	27	63.3	3	51	7	61	64.4
70 / 74	2	35	6	43	59.2	3	59	5	67	61.2	8	81	19	108	61.7
65 / 69	7	68	15	90	57.2	14	83	26	123	58.4	34	51	51	136	59.7
60 / 64	29	66	52	147	54.9	77	57	95	230	56.1	128	18	117	263	57.2
55 / 59	90	28	99	217	52.1	108	12	99	220	52.6	58	2	40	100	53.6
50 / 54	70	5	52	127	48.1	38	0	19	57	48.5	7	0	2	9	48.8
45 / 49	35	1	12	48	44.2	6		1	7	44.2	0		0	0	45.4
40 / 44	6		1	7	39.9	0			0	40.0			0	0	
35 / 39	0			0											
30 / 34															
25 / 29															

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.

MIRAMAR NAS CA WMO No. 722908

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

Period of Record = 1973 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	69.0							0		0	70.8
100 / 104		0		0	68.0		0		0	71.8	0	1	0	1	69.4
95 / 99	0	1		1	68.7	0	2		2	71.3	0	4	0	4	69.6
90 / 94	0	5	0	5	69.5	0	8	0	8	70.3	0	12	0	12	68.6
85 / 89	0	18	1	19	69.0	1	21	1	23	69.7	1	24	2	27	68.1
80 / 84	1	56	6	63	67.8	2	64	5	71	68.8	2	41	6	49	67.6
75 / 79	7	95	16	118	65.8	9	95	19	123	66.3	7	63	15	85	65.5
70 / 74	24	57	49	130	63.8	35	48	59	142	64.8	24	63	40	128	63.6
65 / 69	104	14	103	221	61.9	129	9	117	255	62.3	93	27	103	224	61.5
60 / 64	100	1	68	169	58.5	64	1	44	109	59.0	89	4	66	160	58.8
55 / 59	12		5	17	54.2	8	0	2	10	54.4	20	0	7	27	53.6
50 / 54	0		0	0	50.7	0			0	50.6	3		0	3	49.4
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															

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.

MIRAMAR NAS CA WMO No. 722908

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

Period of Record = 1973 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		0		0	67.8										
100 / 104		0	0	0	66.0										
95 / 99		1	0	1	65.4		0		0	61.5					
90 / 94	0	5	0	5	63.5		1		1	60.2					
85 / 89	0	13	0	13	62.2		5	0	5	58.8		0		0	57.6
80 / 84	1	20	2	23	62.2	0	16	0	16	57.5		5		5	55.7
75 / 79	3	47	4	54	62.3	1	27	1	29	56.2	0	15	0	15	54.1
70 / 74	6	84	13	103	61.3	2	46	4	52	56.4	0	32	0	32	53.5
65 / 69	39	60	63	162	59.5	5	61	14	80	55.4	1	52	4	57	53.0
60 / 64	107	16	114	237	57.5	26	57	54	137	54.2	7	74	19	100	52.5
55 / 59	56	1	39	96	52.7	68	22	84	174	51.4	33	52	71	156	50.7
50 / 54	30	0	12	42	47.9	71	5	55	131	46.8	71	16	82	169	46.6
45 / 49	6		1	7	43.4	50	0	25	75	42.5	81	2	56	139	42.2
40 / 44						15		4	19	37.7	43	0	14	57	38.1
35 / 39						2		0	2	32.8	10		2	12	33.3
30 / 34						0			0	30.3	2		0	2	27.6
25 / 29											0			0	24.7

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.

MIRAMAR NAS CA WMO No. 722908

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

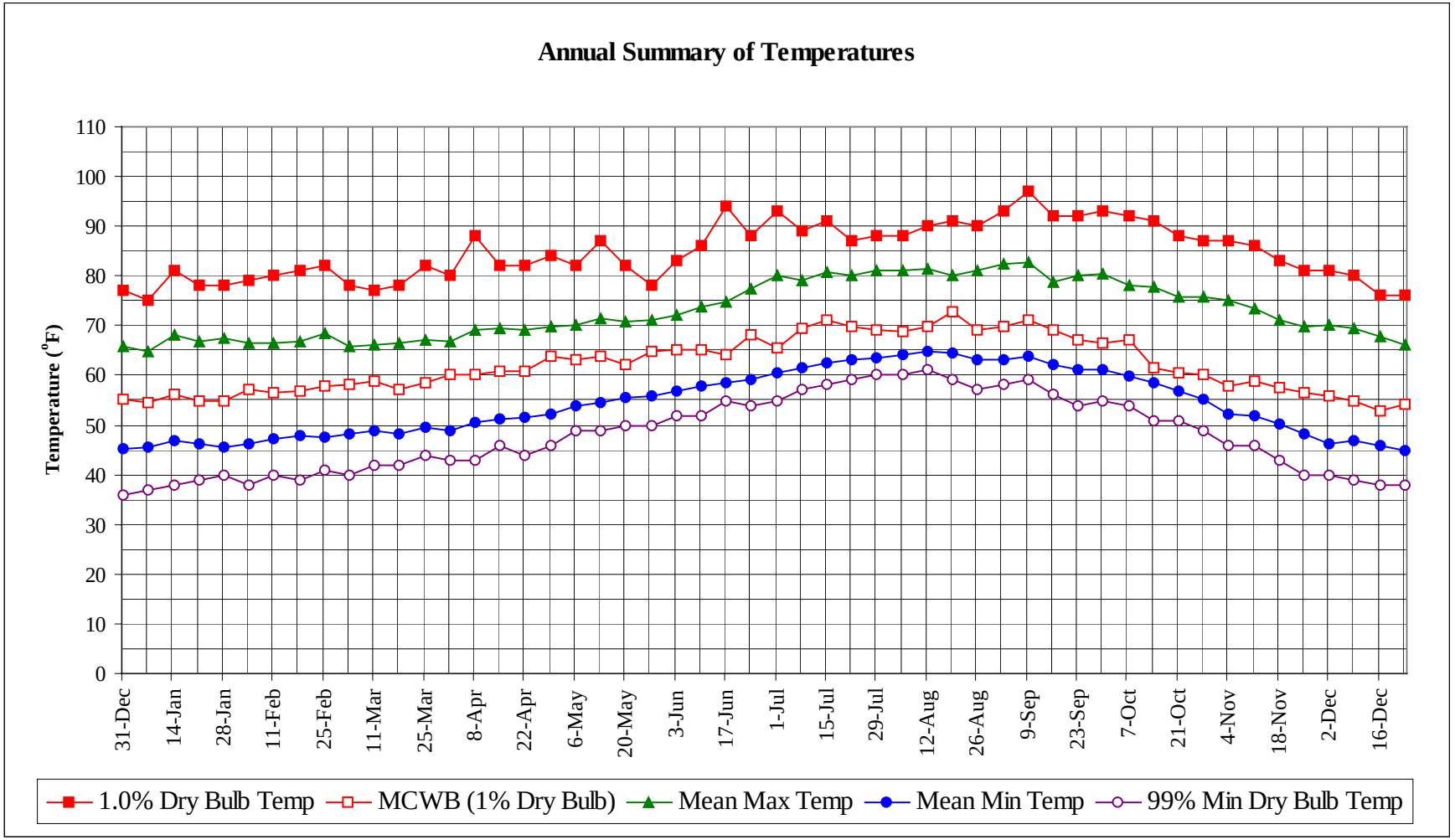
Period of Record = 1973 to 1996

Annual Totals

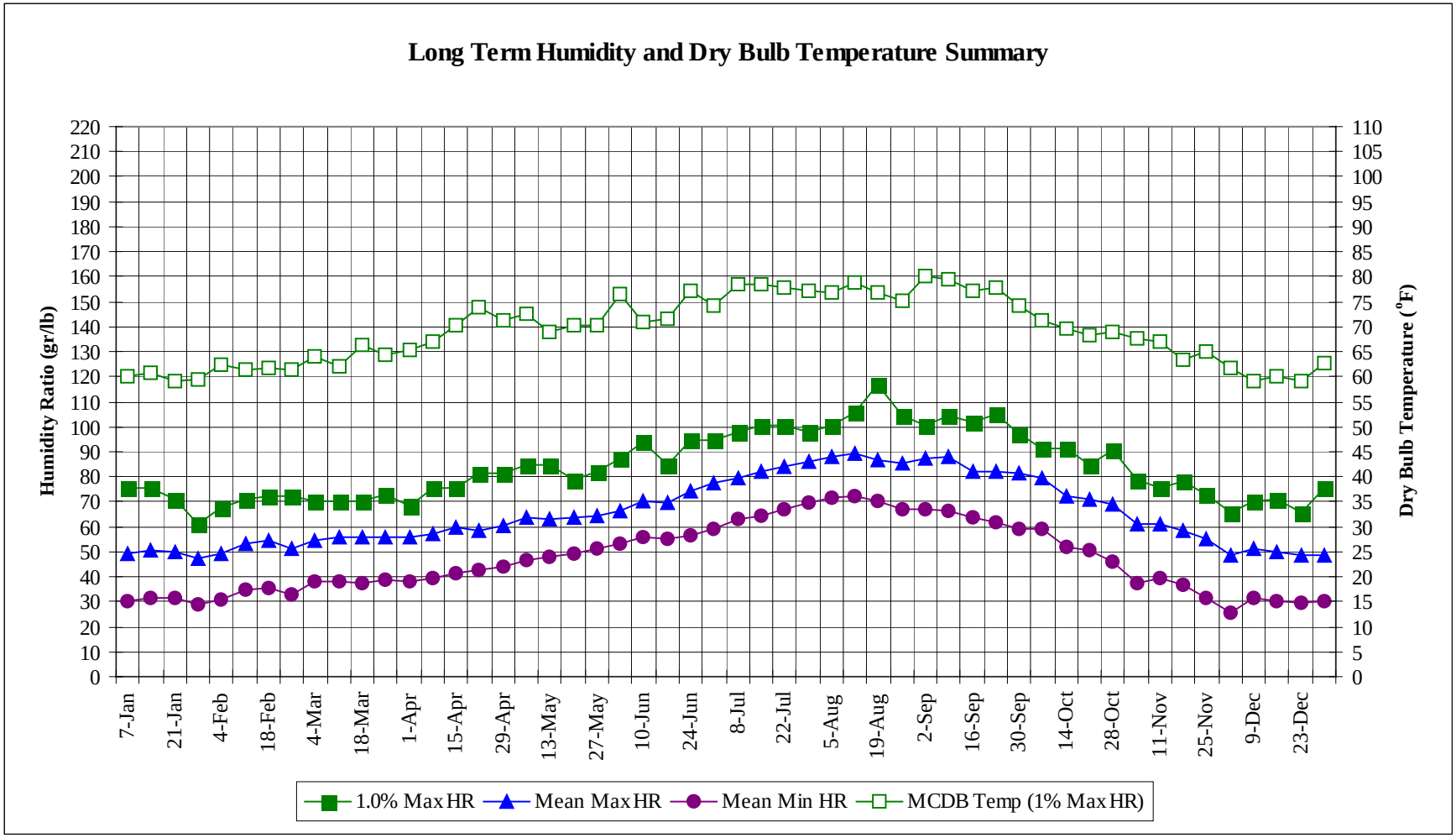
Temperature Range (°F)	Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
105 / 109		1		1	69.7
100 / 104	0	3	0	3	67.6
95 / 99	0	11	0	11	67.9
90 / 94	1	37	1	39	67.5
85 / 89	3	100	6	109	66.7
80 / 84	8	260	23	291	65.6
75 / 79	31	477	68	576	63.5
70 / 74	104	579	202	885	61.3
65 / 69	430	565	518	1513	59.4
60 / 64	652	518	711	1881	56.2
55 / 59	601	277	692	1570	51.9
50 / 54	530	81	451	1062	47.4
45 / 49	374	10	200	584	42.9
40 / 44	155	1	44	200	38.4
35 / 39	27	0	5	32	33.6
30 / 34	3	0	0	3	28.1
25 / 29	0			0	24.7

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.

MIRAMAR NAS **CA** WMO No. 722908



MIRAMAR NAS **CA** WMO No. 722908

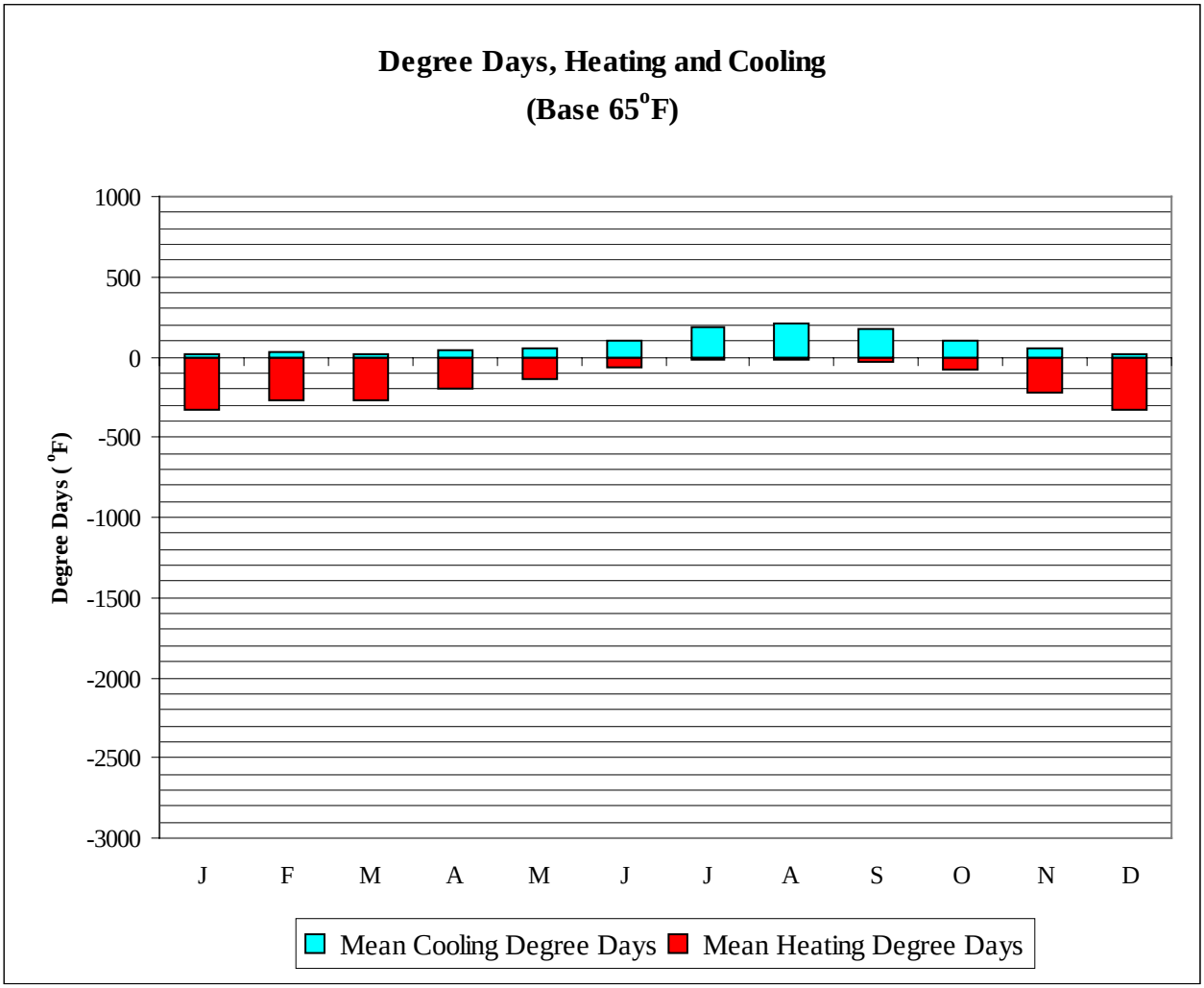


MIRAMAR NAS **CA** WMO No. 722908

Long Term Dry Bulb Temperature and Humidity Summary

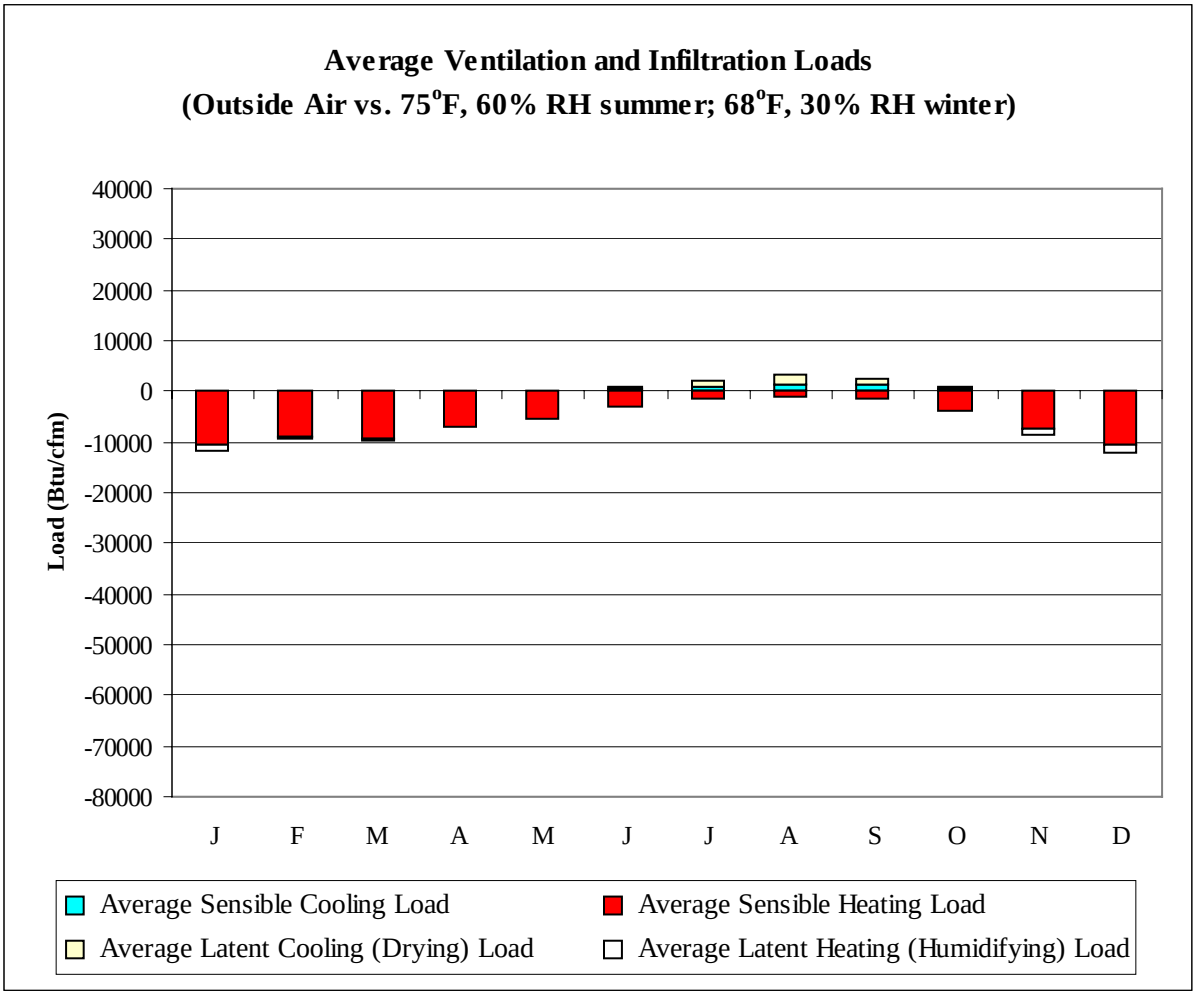
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	75.0	54.4	65.0	45.7	37.0	75.6	60.2	49.5	30.2
14-Jan	81.0	56.0	68.1	46.9	38.0	75.6	60.6	50.4	31.6
21-Jan	78.0	54.8	66.6	46.3	39.0	70.7	59.3	50.0	31.7
28-Jan	78.0	54.7	67.6	45.5	40.0	60.9	59.5	47.0	28.7
4-Feb	79.0	57.0	66.4	46.1	38.0	67.9	62.5	49.3	31.0
11-Feb	80.0	56.5	66.5	47.3	40.0	70.7	61.3	53.4	34.7
18-Feb	81.0	56.9	66.9	47.9	39.0	72.1	61.6	54.3	35.7
25-Feb	82.0	57.7	68.6	47.6	41.0	72.1	61.4	51.4	32.7
4-Mar	78.0	58.3	65.7	48.3	40.0	70.0	64.1	54.7	37.8
11-Mar	77.0	58.9	66.2	49.0	42.0	70.0	62.1	55.5	38.0
18-Mar	78.0	57.2	66.4	48.1	42.0	70.0	66.3	55.6	37.2
25-Mar	82.0	58.6	67.0	49.4	44.0	72.8	64.2	55.6	38.9
1-Apr	80.0	60.1	66.7	48.9	43.0	68.6	65.3	55.7	38.1
8-Apr	88.0	60.0	69.3	50.5	43.0	75.6	67.1	57.2	39.7
15-Apr	82.0	61.0	69.6	51.0	46.0	75.6	70.3	59.5	41.6
22-Apr	82.0	60.8	69.3	51.6	44.0	81.2	73.8	58.4	42.4
29-Apr	84.0	63.7	69.9	52.1	46.0	81.2	71.2	60.4	43.7
6-May	82.0	63.2	70.1	53.9	49.0	84.7	72.7	63.5	46.9
13-May	87.0	63.9	71.4	54.4	49.0	84.7	68.9	63.3	48.1
20-May	82.0	62.2	70.9	55.6	50.0	79.1	70.2	63.4	49.0
27-May	78.0	64.7	71.1	55.9	50.0	81.9	70.3	64.6	51.4
3-Jun	83.0	65.2	72.1	57.0	52.0	87.5	76.5	66.4	53.0
10-Jun	86.0	65.0	73.8	57.8	52.0	93.8	70.8	70.3	55.9
17-Jun	94.0	64.0	74.8	58.6	55.0	84.7	71.6	69.4	55.0
24-Jun	88.0	68.0	77.3	59.1	54.0	94.5	77.2	73.9	56.5
1-Jul	93.0	65.4	80.1	60.6	55.0	94.5	74.1	77.8	59.3
8-Jul	89.0	69.6	79.2	61.3	57.0	98.0	78.5	79.2	63.1
15-Jul	91.0	71.0	80.6	62.4	58.0	100.8	78.4	82.2	64.2
22-Jul	87.0	69.8	80.0	63.3	59.0	100.8	77.7	84.1	66.8
29-Jul	88.0	69.2	81.1	63.6	60.0	98.0	77.2	86.0	69.9
5-Aug	88.0	68.7	81.1	64.0	60.0	100.8	76.8	88.1	71.4
12-Aug	90.0	69.9	81.4	64.7	61.0	105.7	78.9	89.5	72.1
19-Aug	91.0	72.8	80.2	64.4	59.0	116.9	76.8	86.8	70.2
26-Aug	90.0	69.2	81.0	63.1	57.0	104.3	75.2	85.4	67.3
2-Sep	93.0	69.8	82.4	63.3	58.0	100.8	80.0	87.2	66.8
9-Sep	97.0	71.1	82.7	64.0	59.0	104.3	79.5	88.2	66.6
16-Sep	92.0	69.1	78.6	62.2	56.0	101.5	77.1	81.8	63.9
23-Sep	92.0	67.2	80.0	61.3	54.0	105.0	77.7	82.2	61.6
30-Sep	93.0	66.4	80.3	61.2	55.0	97.3	74.3	81.7	58.9
7-Oct	92.0	67.1	78.1	60.0	54.0	91.0	71.2	79.3	58.8
14-Oct	91.0	61.5	77.7	58.4	51.0	91.0	69.5	72.3	51.8
21-Oct	88.0	60.5	75.8	56.8	51.0	84.7	68.2	71.0	50.5
28-Oct	87.0	60.3	75.7	55.3	49.0	90.3	68.9	68.9	45.8
4-Nov	87.0	57.9	75.1	52.3	46.0	79.1	67.6	61.3	37.2
11-Nov	86.0	58.9	73.3	51.9	46.0	75.6	67.0	60.9	39.3
18-Nov	83.0	57.6	71.1	50.0	43.0	78.4	63.5	58.8	36.5
25-Nov	81.0	56.5	70.0	48.2	40.0	72.8	65.0	54.9	31.7
2-Dec	81.0	55.7	70.2	46.2	40.0	65.8	61.9	48.5	25.9
9-Dec	80.0	55.0	69.6	47.0	39.0	70.0	59.1	51.3	31.3
16-Dec	76.0	52.9	67.6	45.8	38.0	70.7	60.2	49.7	30.1
23-Dec	76.0	54.3	66.2	44.9	38.0	65.8	59.0	48.8	29.3
31-Dec	77.0	55.1	65.7	45.0	36.0	75.6	62.8	48.4	30.0

MIRAMAR NAS **CA** WMO No. 722908



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	23	327
FEB	24	268
MAR	23	274
APR	43	199
MAY	51	136
JUN	107	68
JUL	181	22
AUG	204	13
SEP	176	25
OCT	102	83
NOV	51	218
DEC	23	329
ANN	1008	1962

MIRAMAR NAS **CA** WMO No. 722908



	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	68	-10642	1	-1228
FEB	96	-8892	1	-628
MAR	84	-9276	2	-274
APR	211	-7056	20	-114
MAY	173	-5365	49	-12
JUN	575	-3164	210	-12
JUL	1049	-1489	1051	0
AUG	1235	-1055	1907	0
SEP	1228	-1598	1090	-27
OCT	561	-3645	172	-256
NOV	248	-7524	6	-953
DEC	59	-10683	2	-1377
ANN	5587	-70389	4511	-4881

Average Annual Solar Radiation – Nearest Available Site

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

City: SAN DIEGO
State: CA
WBAN No: 23188
Lat(N): 32.73
Long(W): 117.17
Elev(ft): 30

Stn Type: Primary
SHADING GEOMETRY IN DIMENSIONLESS UNITS
Window: 1
Overhang: 0.332
Vert Gap: 0.262

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	970	1230	1560	1930	1980	2050	2200	2070	1720	1390	1080	900	1590
	Std Dev	72	97	115	97	149	181	124	102	123	84	66	62	33
	Minimum	830	1030	1400	1740	1680	1580	1790	1870	1330	1220	930	760	1500
	Maximum	1090	1400	1800	2160	2280	2410	2350	2230	1910	1560	1180	1000	1630
	Diffuse	340	430	560	650	790	810	700	610	560	450	350	300	550
Clear Day	Global	1190	1520	1950	2360	2590	2660	2590	2390	2050	1630	1260	1090	1940
NORTH	Global	240	300	380	460	540	600	580	470	400	330	260	230	400
	Diffuse	240	300	380	440	500	520	500	450	390	330	260	230	380
Clear Day	Global	230	280	350	430	590	700	640	480	360	300	240	210	400
EAST	Global	620	740	870	990	900	880	960	940	850	760	660	580	810
	Diffuse	300	370	470	540	580	590	570	530	480	400	320	280	450
Clear Day	Global	820	990	1210	1360	1420	1440	1410	1350	1220	1030	850	760	1160
SOUTH	Global	1420	1380	1220	1000	750	650	700	900	1140	1380	1470	1430	1120
	Diffuse	410	470	520	540	540	530	510	510	510	480	430	390	480
Clear Day	Global	1990	1920	1650	1180	820	680	730	1000	1430	1800	1950	1960	1420
WEST	Global	640	770	950	1120	1110	1150	1250	1200	1050	880	710	610	950
	Diffuse	310	380	480	550	600	620	600	560	500	410	330	280	470
Clear Day	Global	820	990	1210	1360	1420	1440	1410	1350	1220	1030	850	760	1160

Average Annual Solar Heat and Illumination – Nearest Available Site

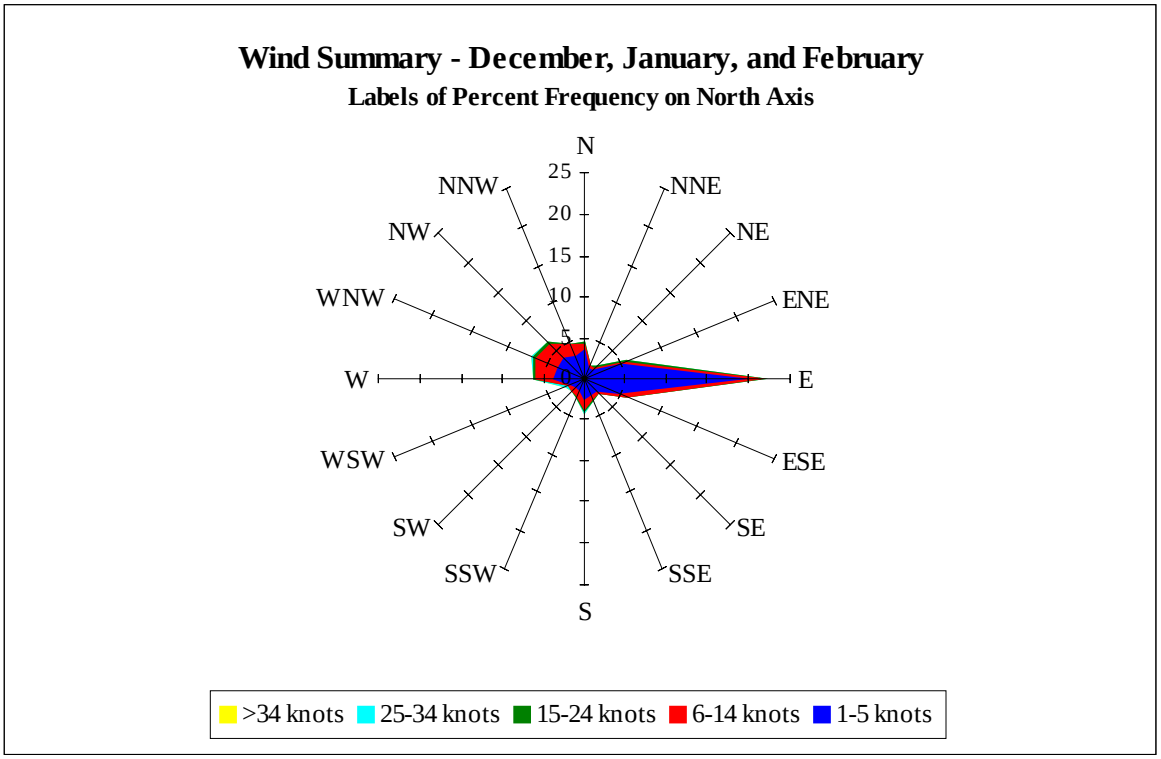
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9

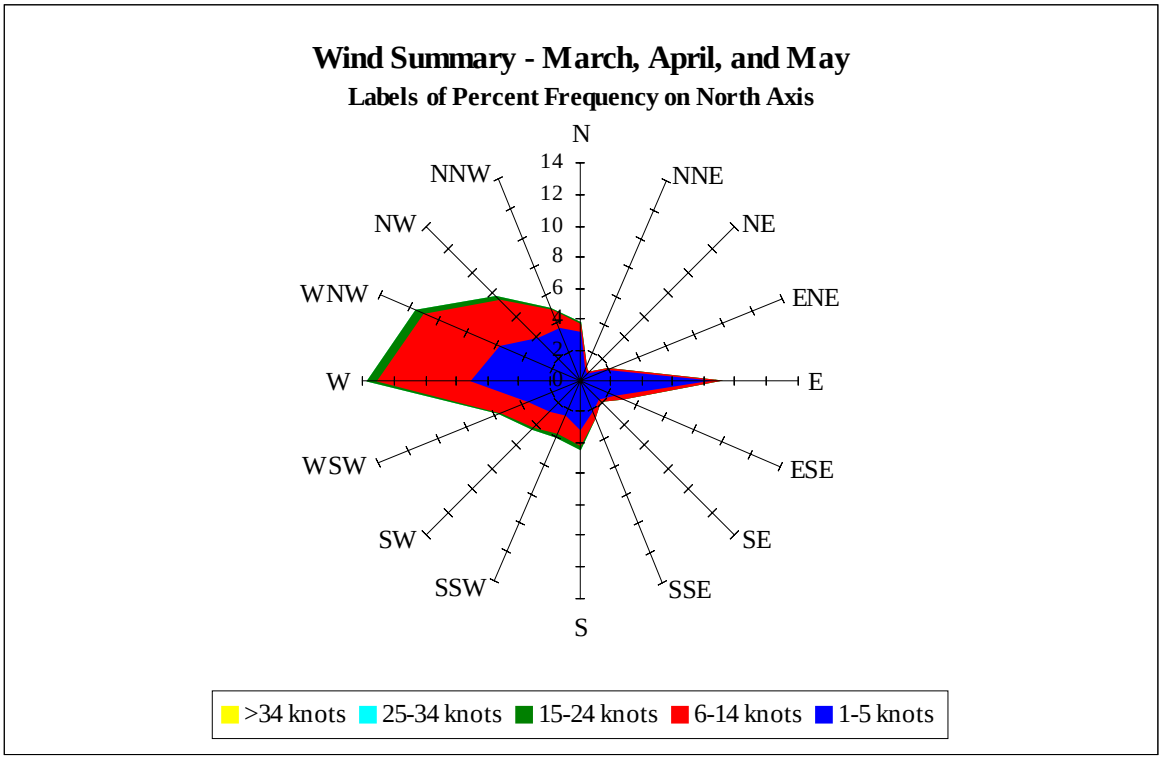
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	650	860	1130	1410	1450	1510	1630	1530	1260	990	740	600	1150
NORTH	Unshaded	170	210	260	310	360	390	370	310	270	230	180	160	270
	Shaded	160	200	250	290	330	360	350	300	260	210	170	150	250
EAST	Unshaded	430	520	610	690	630	610	660	660	600	540	460	400	570
	Shaded	400	480	570	640	560	540	600	590	550	500	430	380	520
SOUTH	Unshaded	1060	990	820	610	440	390	400	530	730	970	1090	1080	760
	Shaded	1040	950	700	460	350	340	330	380	580	890	1070	1060	680
WEST	Unshaded	440	540	670	800	790	810	890	850	740	620	500	420	670
	Shaded	420	510	620	730	720	740	810	780	690	580	470	390	620

AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9

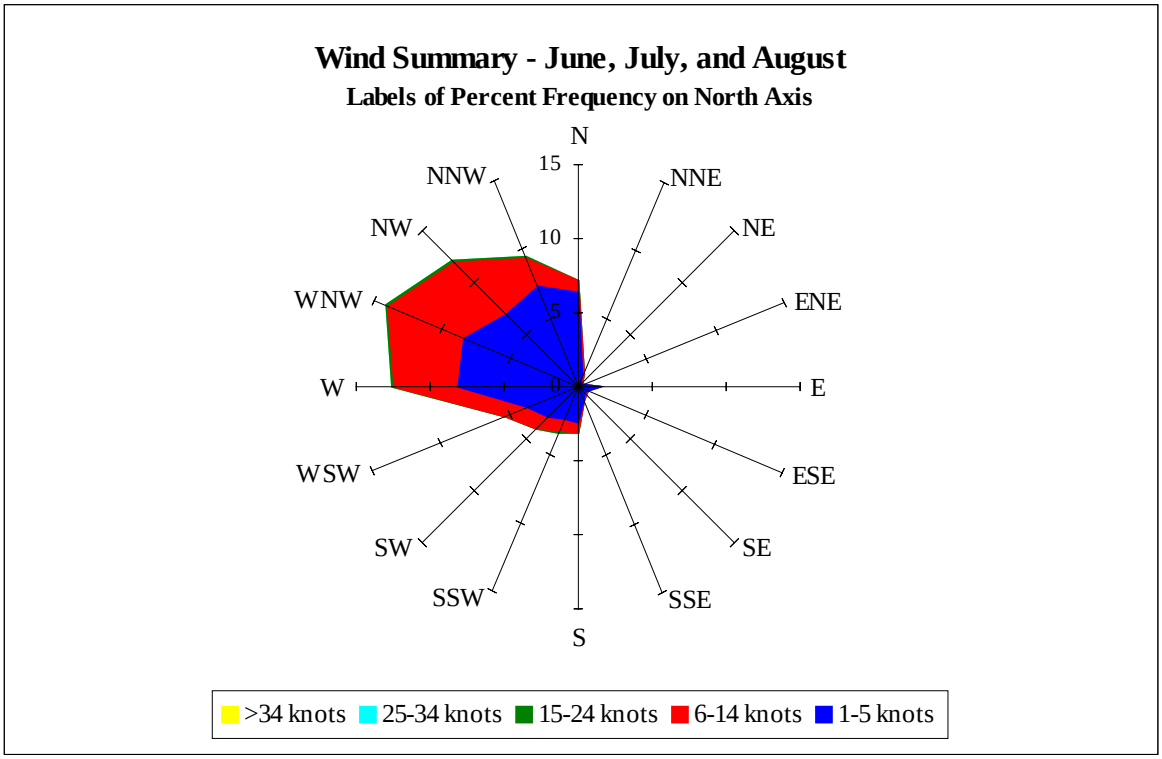
		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	50	83	91	69	25	52	90	107	99	67
	M.Cloudy	31	57	65	49	17	29	52	72	67	42
NORTH	M.Clear	11	15	16	14	8	22	16	16	17	18
	M.Cloudy	12	17	18	15	7	14	19	21	20	17
EAST	M.Clear	79	54	16	14	8	80	70	25	17	14
	M.Cloudy	36	36	18	15	7	27	35	25	20	15
SOUTH	M.Clear	42	69	75	57	21	12	24	35	29	14
	M.Cloudy	23	44	52	38	12	12	22	30	26	15
WEST	M.Clear	11	15	31	74	65	12	16	16	58	83
	M.Cloudy	12	17	26	46	28	12	19	21	40	40
M.Clear	(% hrs)	38	43	45	45	45	17	42	55	60	56
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	37	78	96	85	48	27	56	59	36	3
	M.Cloudy	21	46	65	56	31	18	37	40	25	3
NORTH	M.Clear	10	15	16	16	12	8	12	12	9	2
	M.Cloudy	9	17	19	18	12	7	13	13	9	1
EAST	M.Clear	74	70	23	16	12	56	39	12	9	2
	M.Cloudy	24	34	22	18	12	24	25	13	9	1
SOUTH	M.Clear	24	55	69	60	32	54	87	91	65	8
	M.Cloudy	12	30	46	39	19	23	46	49	32	3
WEST	M.Clear	10	15	16	61	80	8	12	30	58	12
	M.Cloudy	9	17	19	39	37	7	13	21	29	5
M.Clear	(% hrs)	30	56	65	69	66	50	51	53	52	53



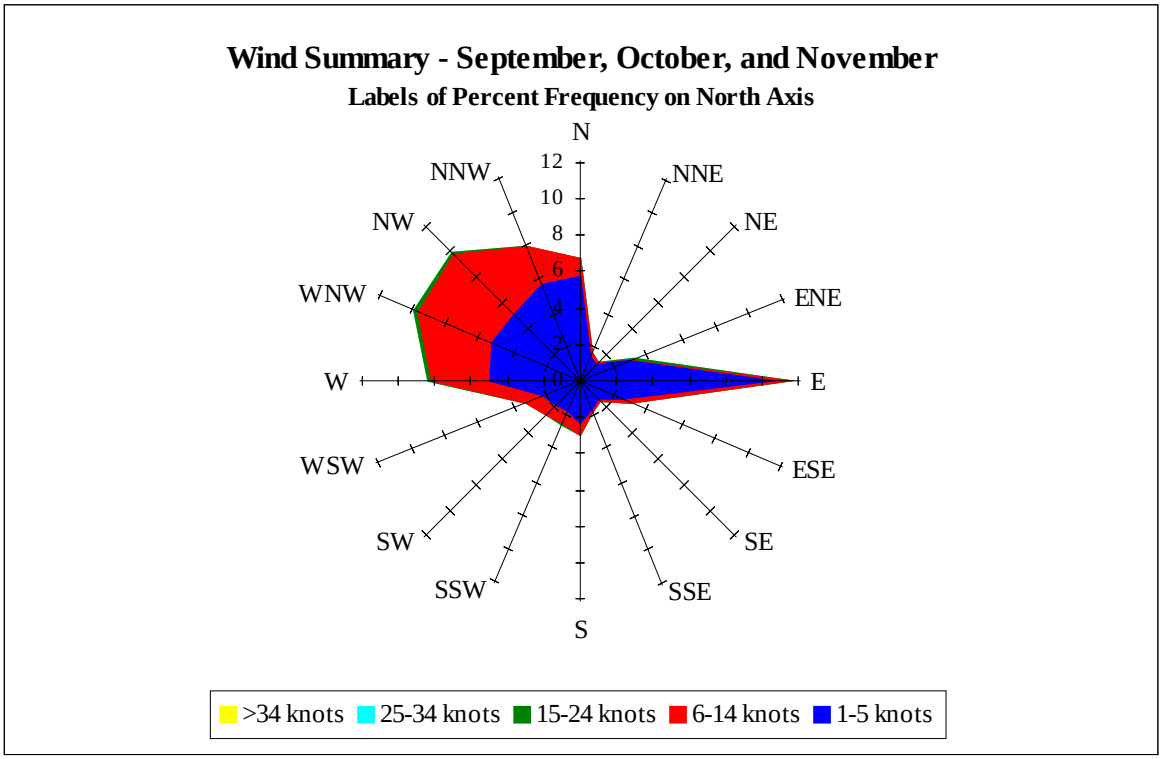
Percent Calm = 20.18



Percent Calm = 21.04



Percent Calm = 23.54



Percent Calm = 22.05