

CAMP PENDLETON MCAS CA

Latitude = 33.30 N

WMO No. 722926

Longitude = 117.30 W

Elevation = 79 feet

Period of Record = 1973 to 1996

Average Pressure = 29.85 inches Hg

Design Criteria Data

	Design Value	Mean Coincident (Average) Values			
		Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Dry Bulb Temperature (T)	(°F)				
Median of Extreme Highs	103	69	53	9.6	SW
0.4% Occurrence	94	68	62	8.9	SSW
1.0% Occurrence	89	67	67	8.7	SSW
2.0% Occurrence	86	67	69	8.9	SSW
Mean Daily Range	21	-	-	-	-
97.5% Occurrence	41	38	28	1.2	N
99.0% Occurrence	37	34	23	1.0	N
99.6% Occurrence	35	32	21	1.0	N
Median of Extreme Lows	30	27	15	0.9	NNE
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T_{wb})	(°F)				
Median of Extreme Highs	76	87	114	8.5	SSW
0.4% Occurrence	73	85	101	9.2	SSW
1.0% Occurrence	72	84	97	9.2	SSW
2.0% Occurrence	70	81	91	8.8	SSW
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)	(gr/lb)				
Median of Extreme Highs	119	82	0.79	7.4	SSW
0.4% Occurrence	108	80	0.72	8.9	SSW
1.0% Occurrence	100	78	0.67	7.8	SSW
2.0% Occurrence	97	77	0.65	7.1	SSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		49	645	54	803

Other Site Data

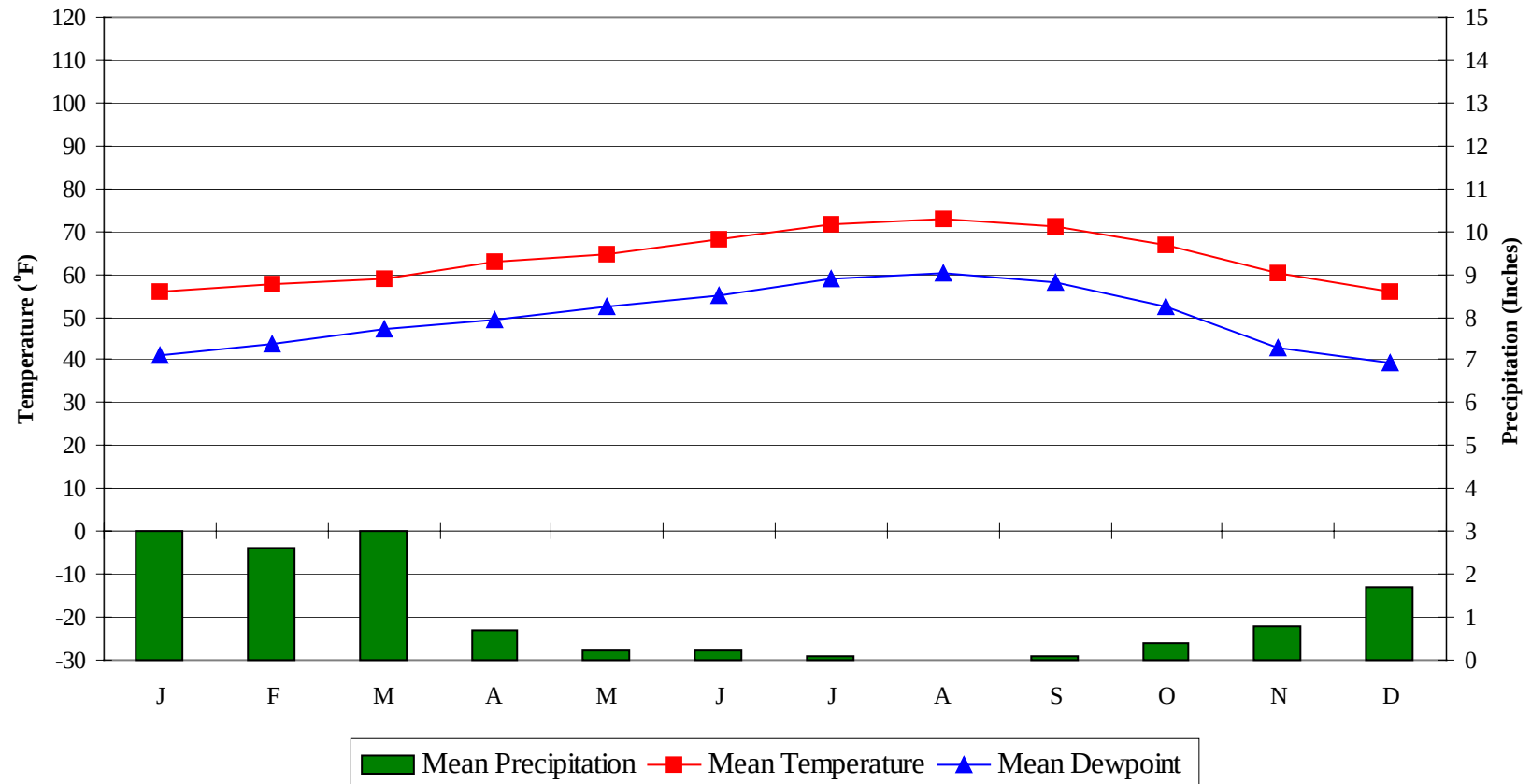
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
9	1.5	85	0.4 + 0.5
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
66.7	0	0	2

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

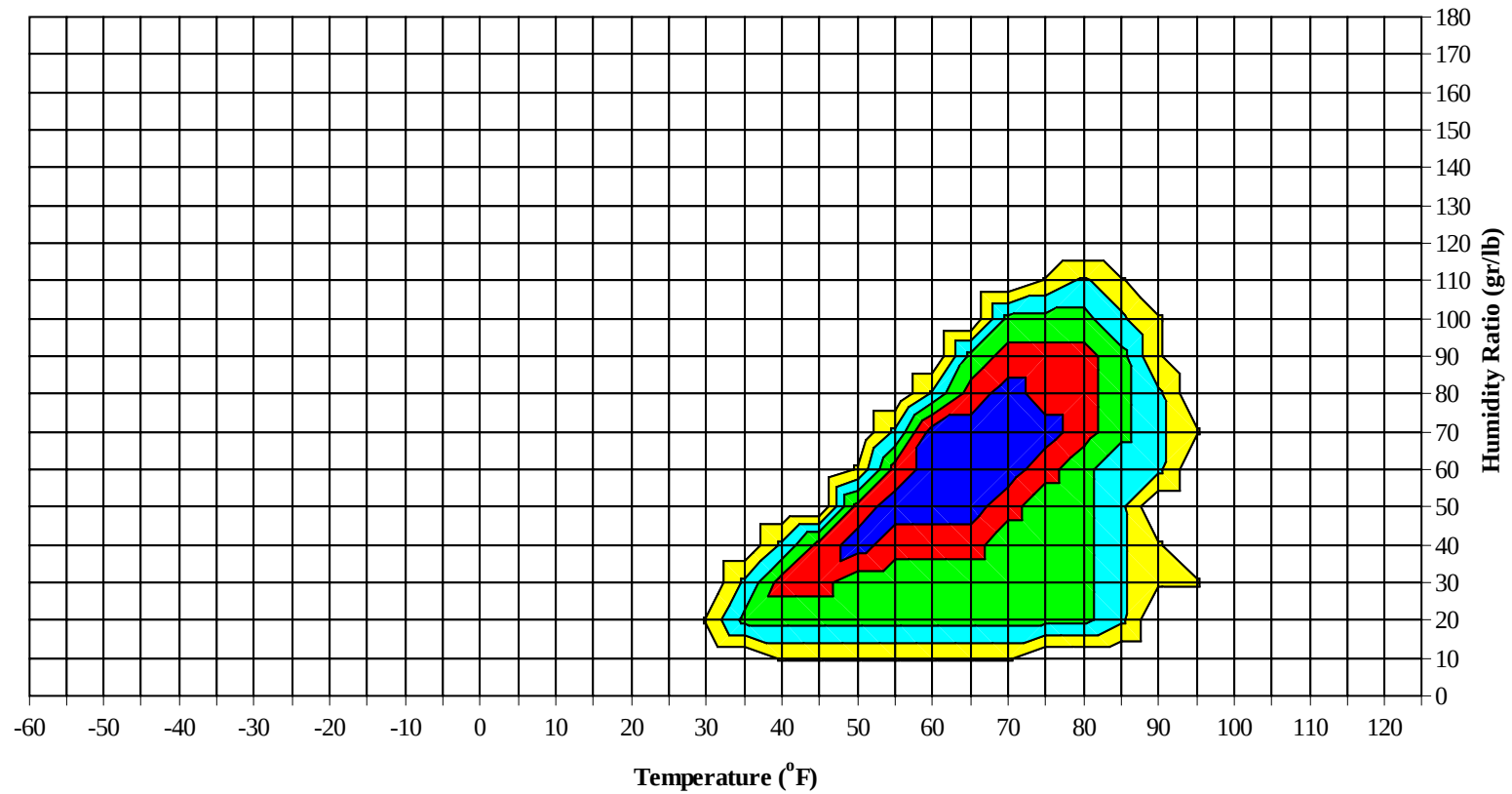
CAMP PENDLETON MCAS CA

WMO No. 722926

Average Annual Climate

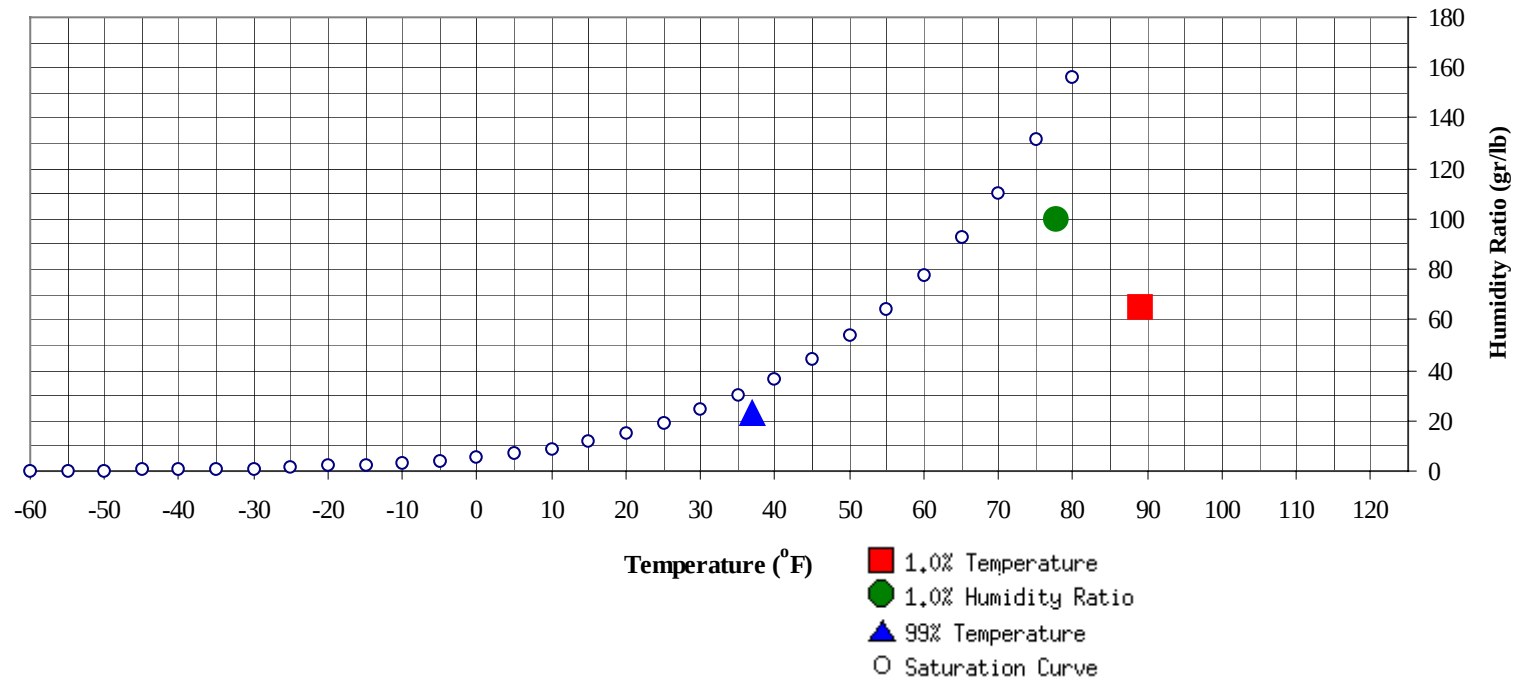


Long Term Psychrometric Summary



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

Psychrometric Summary of Peak Design Values



99% Dry Bulb	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
	37	22.7	12.4		100.1	77.8	70.3	66.9	34.3

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	89	65.4	67.2	31.6

CAMP PENDLETON MCAS CA

WMO No. 722926

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

Period of Record = 1973 to 1996

Temperature Range (°F)	January					February					March				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
125 / 129															
120 / 124															
115 / 119															
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94		0		0	60.0		0		0	62.8		1	0	1	61.2
85 / 89		1		1	59.3		3		3	60.5		2	0	2	61.6
80 / 84		9	0	9	57.9		10	1	11	59.1		6	1	7	60.2
75 / 79		17	1	19	55.6		14	2	16	57.6		14	2	17	58.7
70 / 74		28	4	31	55.2		22	5	27	56.5	0	27	5	32	58.3
65 / 69	1	49	8	59	54.6	0	49	9	58	55.9	1	70	14	85	57.6
60 / 64	6	65	34	105	53.8	6	67	38	111	54.8	17	82	61	159	55.3
55 / 59	26	45	71	142	51.3	39	39	77	155	51.9	63	36	90	189	52.6
50 / 54	39	23	62	125	47.3	53	15	52	120	47.8	73	8	52	133	48.9
45 / 49	52	7	46	104	43.0	54	5	27	86	43.4	52	1	20	73	44.5
40 / 44	65	1	19	86	38.4	40	0	12	52	38.6	33	0	3	36	39.7
35 / 39	44	0	4	48	34.3	26		1	27	34.0	8	0	0	8	35.4
30 / 34	13		0	13	29.4	5		0	5	29.6	1	0		1	31.4
25 / 29	1			1	24.9	1		0	1	22.9		0		0	25.0
20 / 24						0			0	20.0					

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.

CAMP PENDLETON MCAS CA

WMO No. 722926

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)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
125 / 129															
120 / 124															
115 / 119															
110 / 114															
105 / 109															
100 / 104		1		1	65.4		0		0	66.0		0	0	0	66.0
95 / 99		1	0	1	63.4		0		0	65.2		1	0	1	66.2
90 / 94		2	0	2	61.9		1	0	1	65.3		2	0	2	67.7
85 / 89	0	6	0	6	61.6		2	0	2	64.5	0	2	1	4	67.9
80 / 84	0	13	2	15	61.3	0	8	1	9	64.8	0	9	1	11	67.9
75 / 79	1	20	4	24	61.3	0	30	2	33	63.7	1	20	2	23	67.6
70 / 74	2	50	7	59	60.2	6	80	14	99	61.6	3	65	8	77	65.0
65 / 69	8	86	29	123	57.9	35	93	66	194	59.0	12	90	33	135	62.5
60 / 64	53	50	88	191	55.6	35	93	66	194	59.0	56	42	86	183	60.0
55 / 59	73	11	72	156	52.9	93	32	102	227	56.5	117	9	87	213	57.4
50 / 54	54	2	32	87	48.7	70	2	50	122	53.2	36	0	18	54	53.5
45 / 49	38	0	6	44	44.2	35	0	12	47	49.2	13		2	16	49.0
40 / 44	8		0	8	40.2	9		0	9	44.8	1		0	1	44.2
35 / 39	1			1	32.3	1			1	39.6	0			0	40.0
30 / 34															
25 / 29															
20 / 24															

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WMO No. 722926

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

Period of Record = 1973 to 1996

Temperature Range (°F)	July					August					September				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
125 / 129															
120 / 124															
115 / 119															
110 / 114		0		0	78.0							0		0	71.5
105 / 109		0		0	73.8		0		0	83.5		0	0	0	71.3
100 / 104		0	0	0	68.0		0		0	73.5		2	0	2	70.2
95 / 99		1	0	1	69.6		2		2	71.9	0	6	1	7	69.9
90 / 94		4	0	4	70.3		7	0	7	71.0	0	13	1	14	69.8
85 / 89	1	17	0	18	69.6	1	24	1	26	70.2	0	24	1	25	69.4
80 / 84	2	59	6	68	68.6	3	69	6	78	69.1	1	49	5	54	68.5
75 / 79	9	107	25	140	66.5	10	111	30	150	66.9	7	78	19	103	66.4
70 / 74	35	51	74	160	64.2	46	30	86	162	64.8	20	51	57	128	64.2
65 / 69	103	9	96	207	61.7	115	5	93	213	62.2	90	16	100	206	61.5
60 / 64	76	0	40	116	58.5	50	0	27	78	58.7	74	2	43	119	58.3
55 / 59	19		7	26	53.8	20	0	5	24	53.8	32	0	12	44	53.9
50 / 54	3			3	49.5	3		0	3	49.6	14		1	16	49.3
45 / 49											1			1	44.3
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															

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CAMP PENDLETON MCAS CA

WMO No. 722926

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)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
125 / 129	0	0	0	0	85.9										
120 / 124	0	0	0	0	90.6										
115 / 119	0	0	0	0	80.0										
110 / 114	0	0	0	0	82.0										
105 / 109	0	1	0	1	70.5										
100 / 104	0	1	0	1	67.5										
95 / 99	0	4	0	4	65.8		1		1	63.1					
90 / 94	0	6	0	6	66.1		3	0	3	61.2		0		0	61.0
85 / 89	0	14	1	15	64.1		9	0	9	59.9		2		2	59.6
80 / 84	0	24	2	26	63.4	0	19	1	20	59.0		9	0	9	56.7
75 / 79	1	62	5	68	63.5	0	35	2	37	57.8		19	0	19	55.9
70 / 74	4	88	20	112	62.0	1	53	7	60	57.8	0	34	2	36	55.3
65 / 69	43	39	90	172	60.2	3	61	19	83	56.5	1	55	7	63	54.4
60 / 64	81	9	80	170	57.7	25	38	61	125	54.5	7	62	30	99	53.5
55 / 59	50	1	36	87	52.9	43	16	67	126	51.4	21	39	64	125	50.4
50 / 54	42	0	12	54	48.3	48	5	47	100	47.1	37	20	63	120	46.8
45 / 49	19		2	21	43.4	53	1	23	77	42.8	55	6	51	112	42.5
40 / 44	7		0	7	38.6	44	0	10	54	38.2	62	2	22	85	38.3
35 / 39	0			0	32.0	18	0	2	21	33.5	51	0	6	57	33.7
30 / 34						3		0	3	29.4	12		1	13	28.8
25 / 29						0			0	27.0	2			2	24.4
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.

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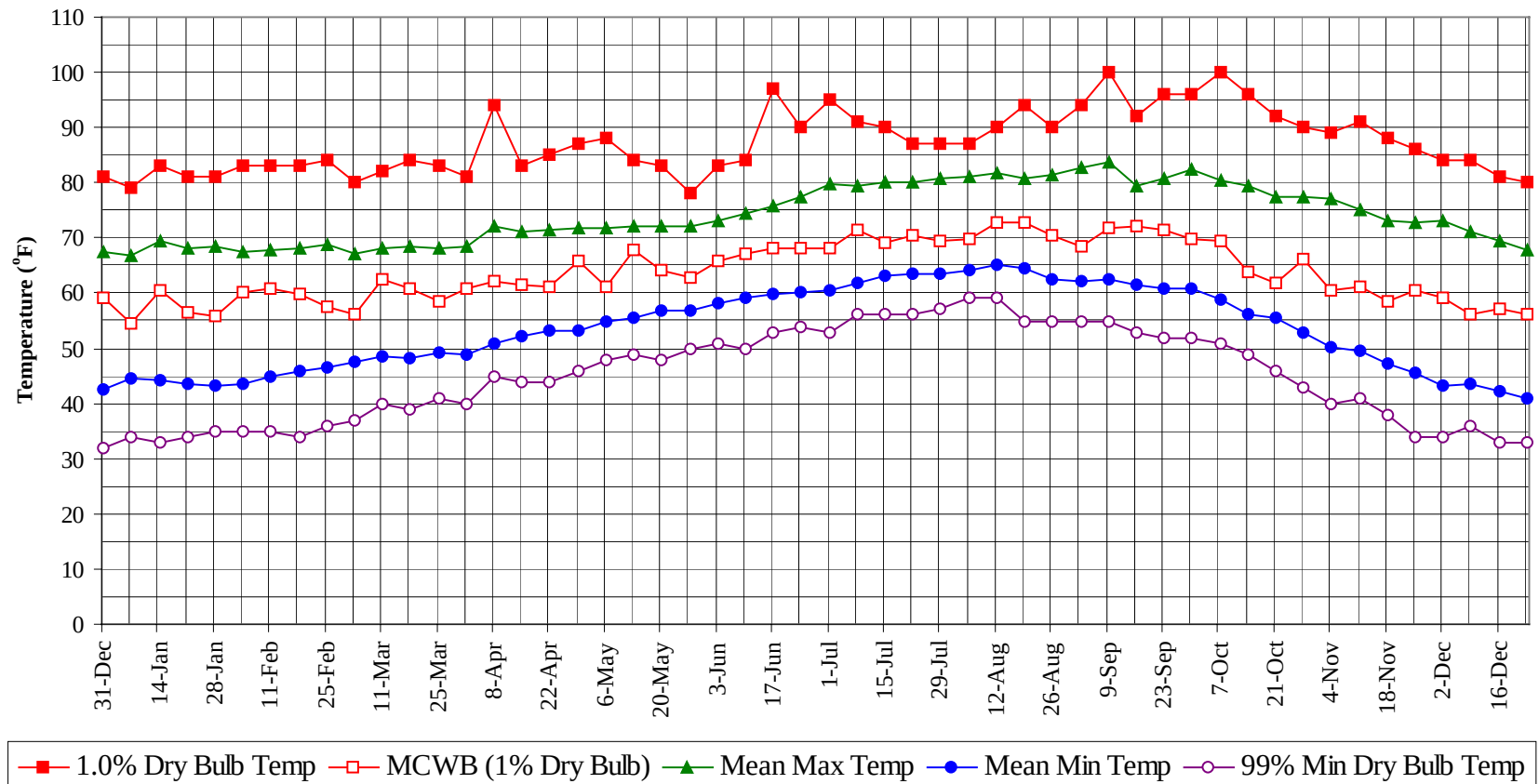
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

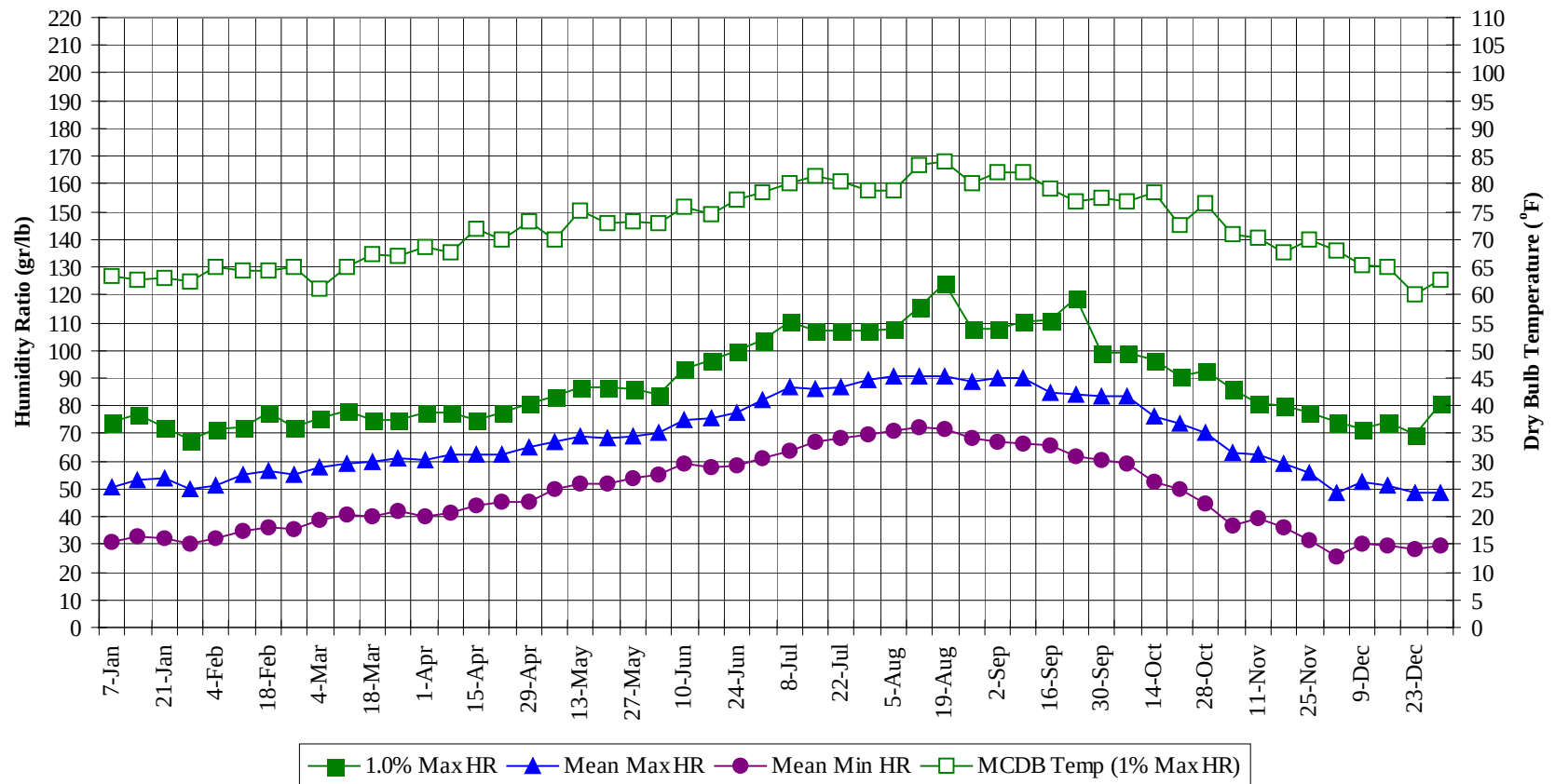
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
125 / 129	0	0	0	0	85.9
120 / 124	0	0	0	0	90.6
115 / 119	0	0	0	0	80.0
110 / 114	0	0	0	0	76.2
105 / 109	0	2	0	2	71.8
100 / 104	0	5	0	5	68.5
95 / 99	0	16	1	17	68.1
90 / 94	0	40	4	43	68.0
85 / 89	2	115	6	123	67.0
80 / 84	9	294	28	332	66.1
75 / 79	33	575	103	711	64.3
70 / 74	138	608	321	1068	61.9
65 / 69	493	574	631	1698	59.4
60 / 64	639	413	695	1747	56.2
55 / 59	492	186	559	1237	52.3
50 / 54	400	71	325	796	48.0
45 / 49	310	19	169	499	43.3
40 / 44	237	3	64	304	38.6
35 / 39	133	0	13	146	34.0
30 / 34	29	0	1	30	29.3
25 / 29	3	0	0	3	24.2
20 / 24	0			0	20.0

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

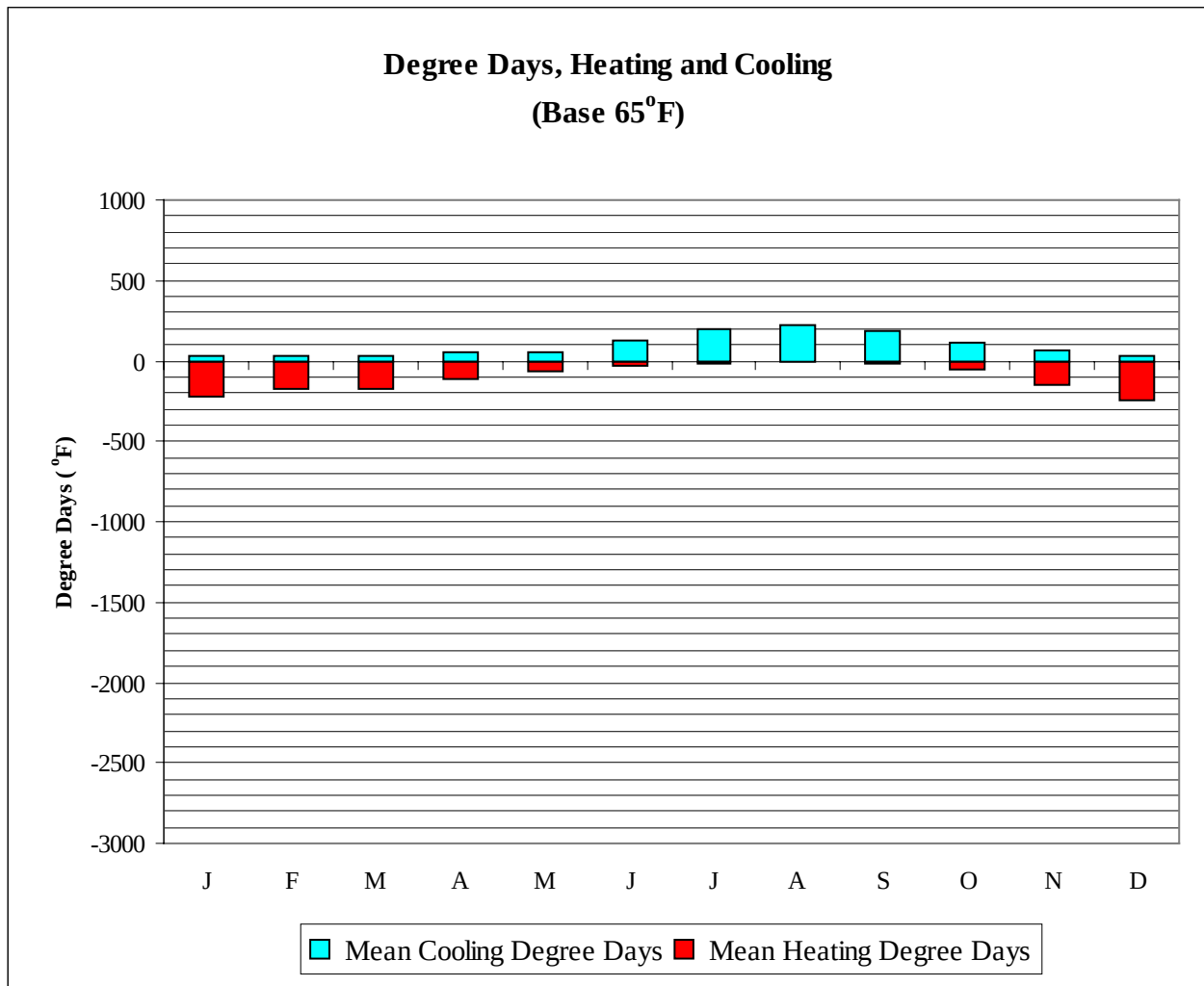


CAMP PENDLETON MCAS CA

WMO No. 722926

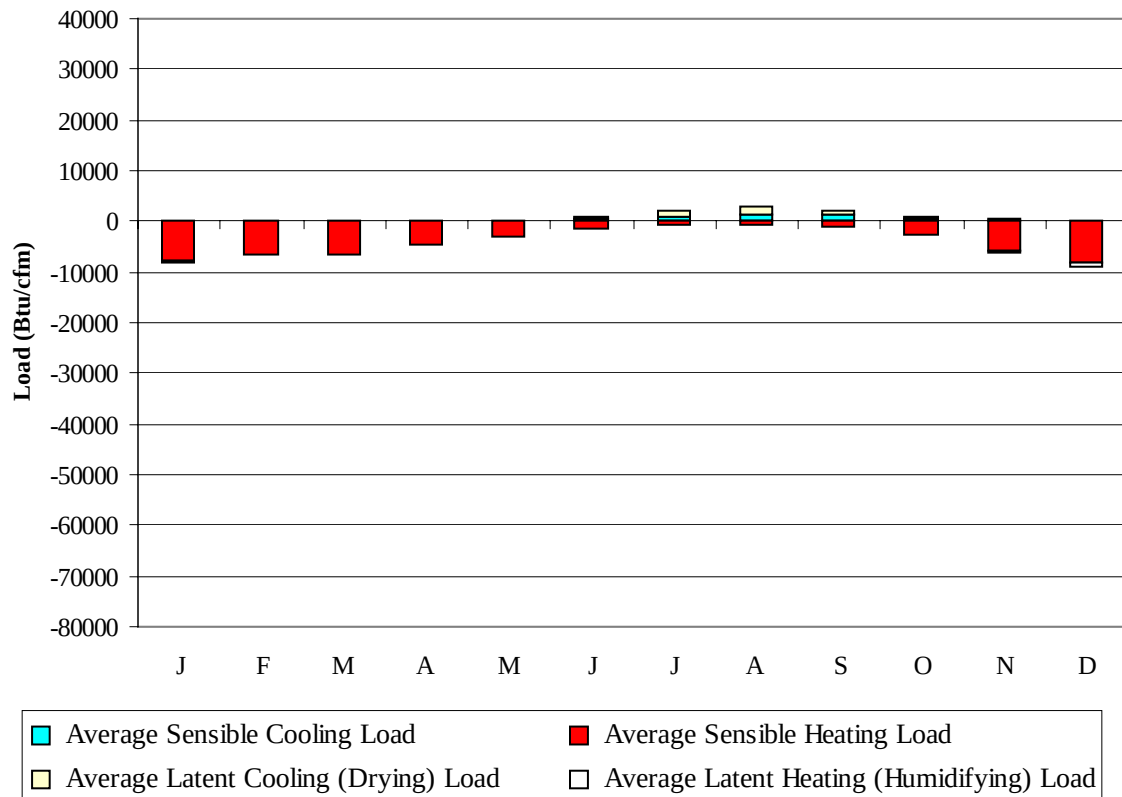
Long Term Dry Bulb Temperature and Humidity Summary

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	79.0	54.5	66.9	44.5	34.0	74.2	63.4	50.7	31.2
14-Jan	83.0	60.4	69.3	44.1	33.0	77.0	62.9	53.3	32.8
21-Jan	81.0	56.6	68.2	43.7	34.0	72.1	63.0	53.6	32.4
28-Jan	81.0	55.8	68.4	43.3	35.0	67.9	62.2	50.1	30.2
4-Feb	83.0	60.2	67.3	43.4	35.0	71.4	65.1	51.5	32.5
11-Feb	83.0	60.8	67.9	44.8	35.0	72.1	64.4	55.4	34.7
18-Feb	83.0	59.9	68.1	46.0	34.0	77.7	64.3	56.5	36.0
25-Feb	84.0	57.6	68.9	46.5	36.0	72.1	65.0	54.9	35.4
4-Mar	80.0	56.3	67.2	47.5	37.0	75.6	61.1	58.0	38.7
11-Mar	82.0	62.6	68.1	48.7	40.0	78.4	65.0	58.9	40.4
18-Mar	84.0	60.8	68.5	48.0	39.0	74.9	67.3	59.5	39.8
25-Mar	83.0	58.5	68.2	49.2	41.0	74.9	67.1	60.9	41.9
1-Apr	81.0	60.7	68.5	49.0	40.0	77.7	68.6	60.4	40.0
8-Apr	94.0	62.0	72.0	50.9	45.0	77.7	67.5	62.5	41.5
15-Apr	83.0	61.5	71.2	52.2	44.0	74.9	71.9	62.5	44.0
22-Apr	85.0	61.1	71.4	53.1	44.0	77.7	70.0	62.2	45.1
29-Apr	87.0	65.8	71.9	53.3	46.0	80.5	73.2	65.0	45.5
6-May	88.0	61.0	71.7	54.9	48.0	83.3	70.1	67.2	49.7
13-May	84.0	67.8	72.1	55.4	49.0	86.8	75.1	69.3	51.9
20-May	83.0	64.0	72.2	56.9	48.0	86.8	72.8	68.3	52.1
27-May	78.0	62.9	72.0	56.9	50.0	86.1	73.2	69.0	53.6
3-Jun	83.0	65.7	73.2	58.2	51.0	84.0	72.8	70.3	55.3
10-Jun	84.0	67.3	74.3	59.3	50.0	93.1	75.9	74.8	59.1
17-Jun	97.0	68.3	75.9	59.8	53.0	96.6	74.6	75.4	57.8
24-Jun	90.0	68.3	77.5	60.0	54.0	100.1	77.3	77.4	58.6
1-Jul	95.0	68.0	79.9	60.6	53.0	103.6	78.6	82.2	60.9
8-Jul	91.0	71.5	79.5	61.9	56.0	110.6	80.0	86.9	63.5
15-Jul	90.0	69.0	80.1	63.0	56.0	107.1	81.4	86.3	66.7
22-Jul	87.0	70.3	80.0	63.6	56.0	107.1	80.6	86.9	68.1
29-Jul	87.0	69.6	80.7	63.6	57.0	107.1	78.9	89.4	69.6
5-Aug	87.0	69.6	81.0	64.1	59.0	107.8	78.8	90.3	70.9
12-Aug	90.0	72.8	81.6	65.2	59.0	115.5	83.3	90.6	72.2
19-Aug	94.0	72.8	80.7	64.6	55.0	123.9	83.9	90.8	71.7
26-Aug	90.0	70.4	81.4	62.6	55.0	107.8	80.2	88.5	68.3
2-Sep	94.0	68.3	82.8	62.1	55.0	107.8	82.1	89.7	67.1
9-Sep	100.0	71.8	83.8	62.5	55.0	110.6	82.1	90.0	66.5
16-Sep	92.0	72.2	79.5	61.3	53.0	111.3	79.3	85.0	65.6
23-Sep	96.0	71.3	80.8	60.8	52.0	119.0	76.9	84.3	61.7
30-Sep	96.0	69.9	82.3	60.7	52.0	99.4	77.6	83.1	60.6
7-Oct	100.0	69.5	80.3	58.7	51.0	99.4	76.7	83.1	59.3
14-Oct	96.0	63.8	79.4	56.3	49.0	96.6	78.4	76.2	52.6
21-Oct	92.0	61.8	77.5	55.6	46.0	90.3	72.7	73.6	50.0
28-Oct	90.0	66.0	77.3	52.8	43.0	92.4	76.6	70.3	44.4
4-Nov	89.0	60.6	77.2	50.1	40.0	86.1	71.0	63.2	36.5
11-Nov	91.0	61.2	75.2	49.4	41.0	80.5	70.2	62.1	39.6
18-Nov	88.0	58.4	73.1	47.2	38.0	79.8	67.6	58.9	35.9
25-Nov	86.0	60.3	72.7	45.5	34.0	77.7	70.0	55.8	31.8
2-Dec	84.0	59.2	73.1	43.1	34.0	74.2	67.9	48.7	25.9
9-Dec	84.0	56.3	71.2	43.6	36.0	71.4	65.4	52.7	29.9
16-Dec	81.0	57.1	69.4	42.3	33.0	74.2	65.1	51.1	29.3
23-Dec	80.0	56.0	67.9	41.0	33.0	69.3	60.0	48.4	28.1
31-Dec	81.0	59.2	67.4	42.6	32.0	80.5	62.7	48.9	29.7



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	26	223
FEB	24	179
MAR	26	173
APR	52	108
MAY	58	63
JUN	122	29
JUL	193	12
AUG	218	10
SEP	187	21
OCT	115	57
NOV	63	154
DEC	27	240
ANN	1111	1269

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



	Average Sensible Cooling Load	Average Sensible Heating Load	Average Latent Cooling Load	Average Latent Heating Load
	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)
JAN	94	-7725	2	-562
FEB	103	-6434	2	-304
MAR	94	-6398	9	-90
APR	234	-4462	11	-41
MAY	119	-3035	51	-2
JUN	491	-1626	351	-4
JUL	888	-750	1042	0
AUG	1148	-608	1674	0
SEP	1247	-1089	987	-3
OCT	638	-2537	249	-134
NOV	352	-5632	20	-616
DEC	108	-8189	7	-811
ANN	5516	-48485	4405	-2567

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

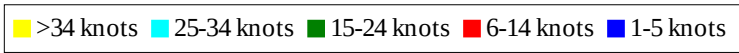
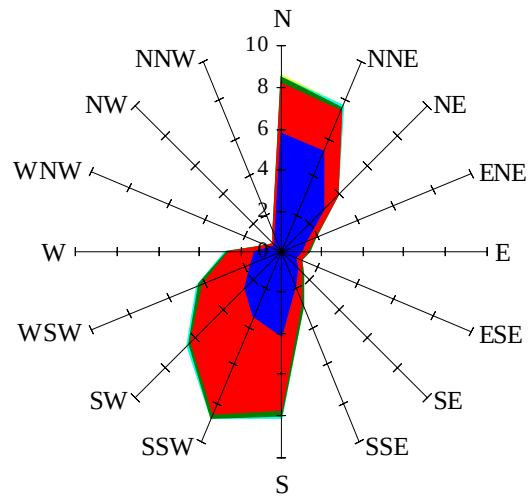
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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

Wind Summary - December, January, and February

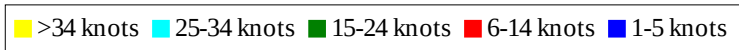
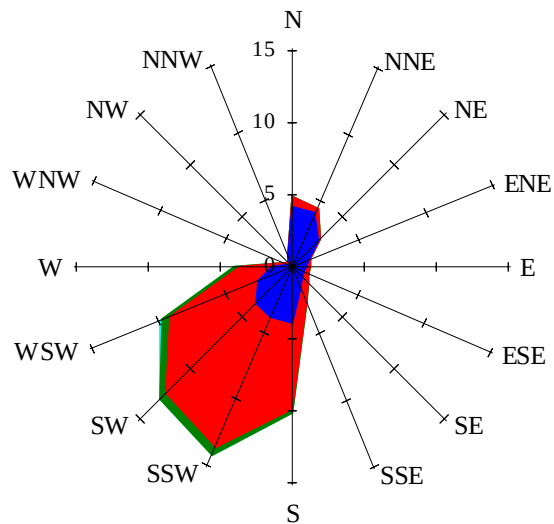
Labels of Percent Frequency on North Axis



Percent Calm = 38.70

Wind Summary - March, April, and May

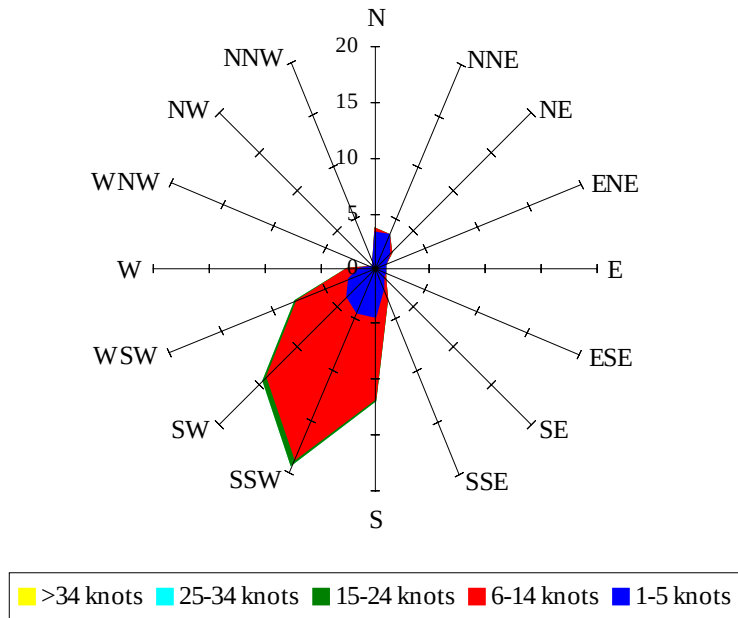
Labels of Percent Frequency on North Axis



Percent Calm = 27.52

Wind Summary - June, July, and August

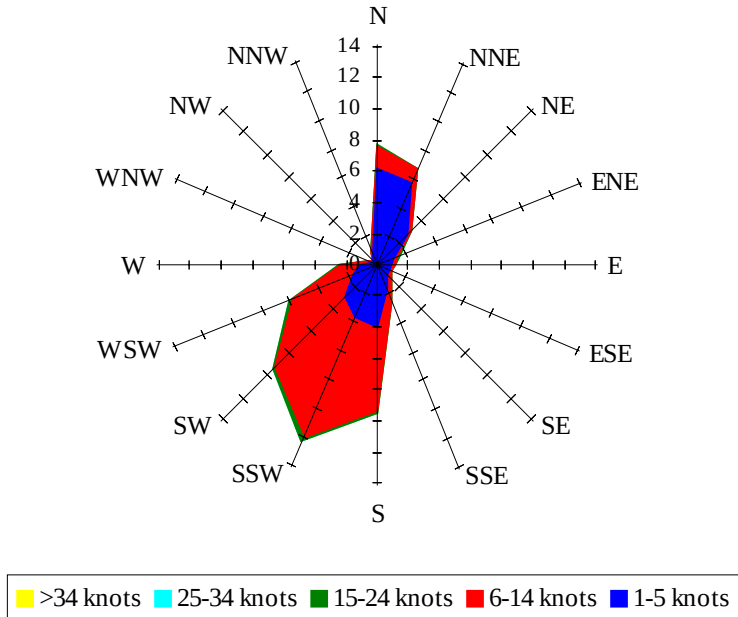
Labels of Percent Frequency on North Axis



Percent Calm = 27.12

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 33.77