

BEALE AFB/MARYSVILLE CA

Latitude = 39.13 N

WMO No. 724837

Longitude = 121.40 W

Elevation = 112 feet

Period of Record = 1967 to 1996

Average Pressure = 29.83 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	105	72	63	5.0	SSW
0.4% Occurrence	101	70	63	5.5	S
1.0% Occurrence	98	69	60	5.7	S
2.0% Occurrence	96	68	61	5.8	S
Mean Daily Range	23	-	-	-	-
97.5% Occurrence	37	35	27	2.6	N
99.0% Occurrence	34	32	24	2.3	N
99.6% Occurrence	32	30	21	2.2	N
Median of Extreme Lows	27	25	16	2.2	NNW
	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	77	100	99	5.2	S
0.4% Occurrence	73	97	84	5.6	S
1.0% Occurrence	71	94	77	5.4	S
2.0% Occurrence	70	92	74	5.5	S
	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	104	90	0.69	6.3	S
0.4% Occurrence	90	83	0.60	4.9	S
1.0% Occurrence	84	83	0.56	5.1	S
2.0% Occurrence	78	83	0.52	5.7	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		317	1360	43	557

Other Site Data

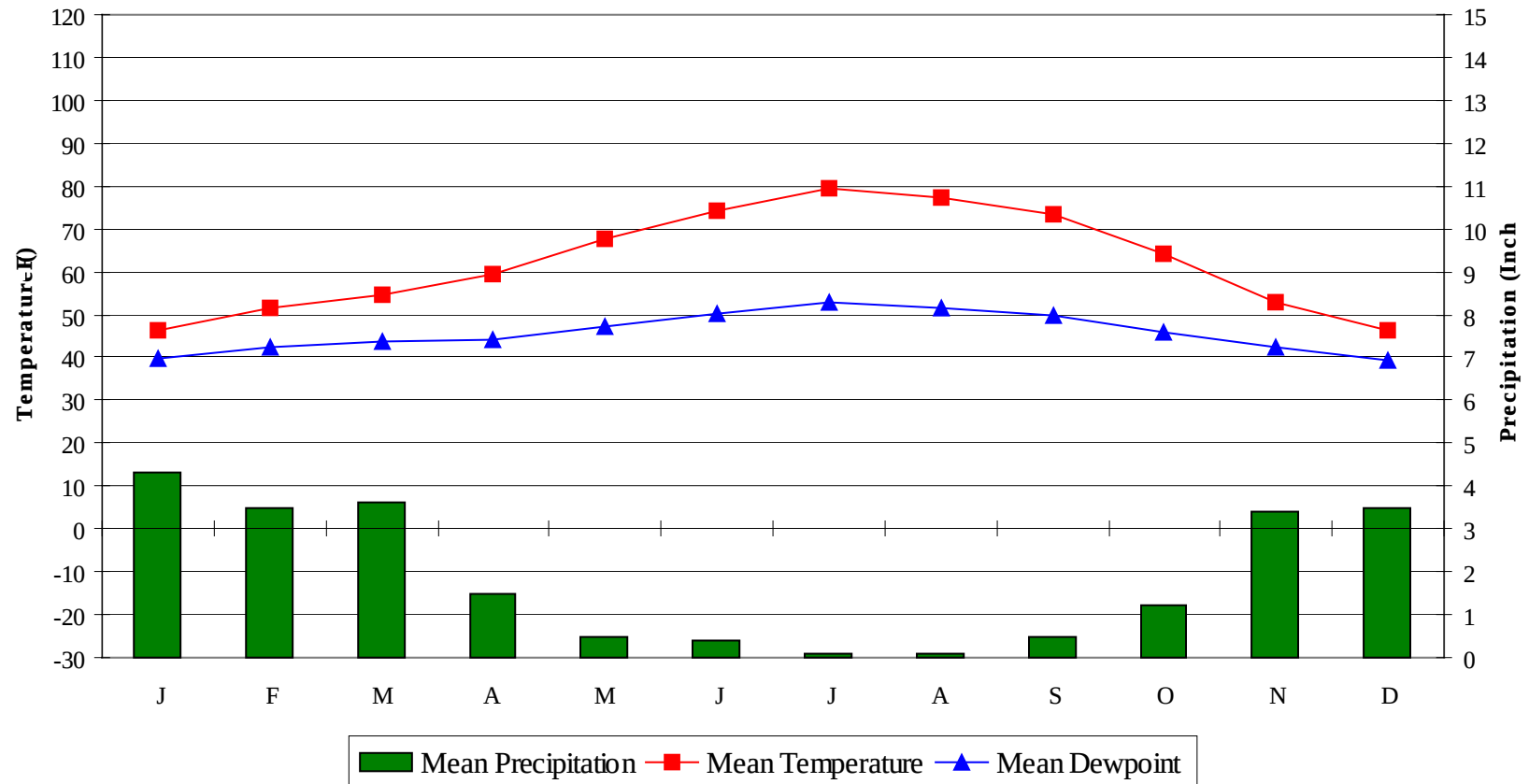
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
8	1.5	85	0.1 + 1.7
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
64.8	5	0	10

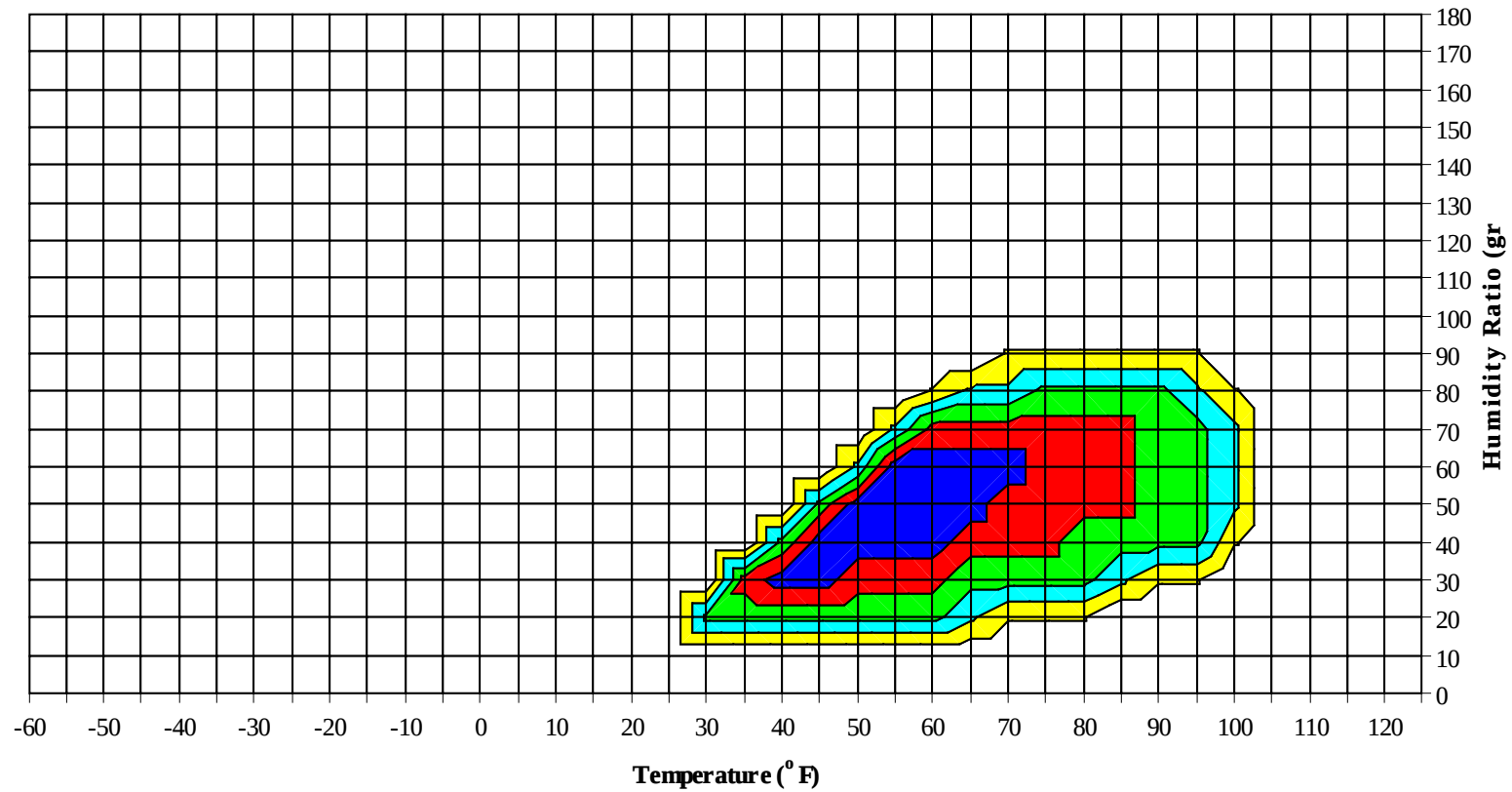
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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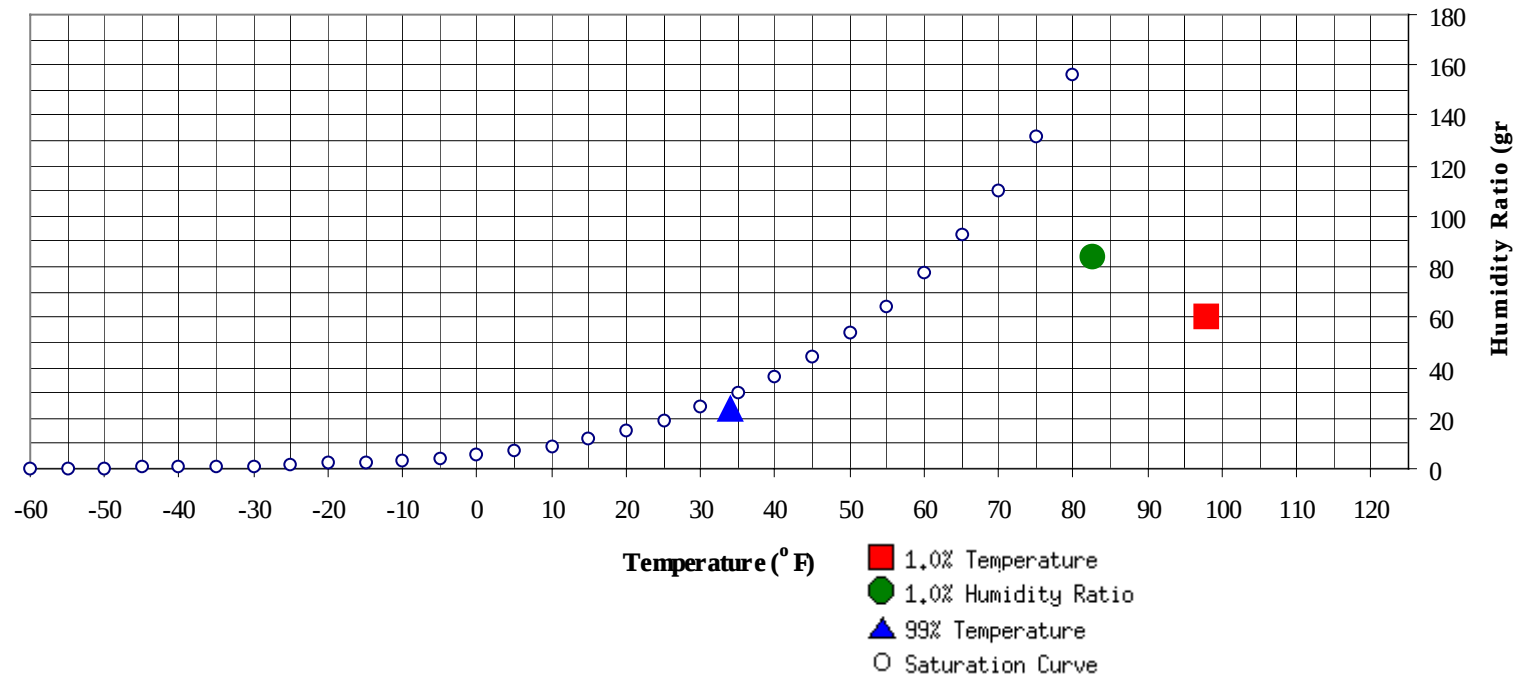
Average Annual Climate



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



	(°F)	MCHR	Enthalpy	1.0% Humidity	(gr/lb)	MCDB	MCWB	MC Dewpt	Enthalpy
		(gr/lb)	(btu/lb)			(°F)	(°F)	(°F)	(btu/lb)
99% Dry Bulb	34	23.7	11.8	Ratio	84	82.7	68.8	62	33.0

1.0% Dry Bulb	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
	98	60.3	69	33.0

BEALE AFB/MARYSVILLE CA

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

Period of Record = 1967 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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84													0	0	61.9
75 / 79		0		0	57.5		1	0	1	57.8		6	1	7	60.2
70 / 74		1		1	54.6		6	1	8	58.2		20	7	26	58.3
65 / 69		3	0	4	54.6		19	6	25	56.1	0	42	18	60	55.7
60 / 64	1	18	4	23	54.1	1	43	19	63	53.8	3	59	37	100	53.5
55 / 59	10	44	23	78	51.9	19	62	52	132	51.6	36	65	71	171	51.5
50 / 54	30	66	51	146	48.4	53	55	72	181	48.2	79	39	68	186	47.9
45 / 49	47	55	73	175	44.2	65	26	49	140	44.0	71	14	35	119	43.9
40 / 44	66	39	62	167	40.1	55	9	19	83	39.6	44	2	12	59	39.8
35 / 39	64	18	31	113	35.8	25	1	4	31	34.8	13	0	1	14	35.5
30 / 34	26	3	5	34	31.1	6	0	1	7	30.3	2			2	31.1
25 / 29	4		0	5	26.9	1	0	0	2	23.6					
20 / 24						0			0	20.5					
15 / 19															

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.

BEALE AFB/MARYSVILLE CA

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Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**Period of Record = 1967 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		
110 / 114															
105 / 109												0	0	1	70.2
100 / 104							0	0	0	67.6		8	4	11	70.6
95 / 99							5	2	7	68.0		19	10	29	68.5
90 / 94		0	0	1	66.1		16	7	23	66.3	0	31	17	48	66.8
85 / 89		3	1	4	64.5		24	13	37	64.6	1	40	26	67	65.0
80 / 84		13	5	18	62.0	1	38	22	60	62.4	5	46	37	87	63.3
75 / 79		27	11	39	59.5	4	44	30	79	60.5	13	41	39	94	61.2
70 / 74	0	42	20	62	57.5	10	48	40	99	58.2	30	31	38	99	59.3
65 / 69	3	48	33	84	55.3	26	36	42	104	56.3	50	17	34	101	57.3
60 / 64	16	49	48	112	53.2	53	26	43	122	54.2	70	7	25	102	55.0
55 / 59	50	39	57	145	50.8	74	10	32	116	51.3	56	1	8	66	52.4
50 / 54	82	17	44	142	47.7	60	2	13	75	48.0	13	0	1	14	48.9
45 / 49	62	3	18	83	43.7	16		3	19	44.0	1			1	45.4
40 / 44	24	0	3	27	39.6	2			2	39.8					
35 / 39	3		0	4	36.2	0			0	35.0					
30 / 34															
25 / 29															
20 / 24															
15 / 19															

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Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)**Period of Record = 1967 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		
110 / 114		0	0	0	74.0		0		0	70.0					
105 / 109		3	1	4	72.5		2	1	2	71.0		0		0	70.7
100 / 104		15	8	23	71.0		11	5	17	70.2		4	1	5	69.5
95 / 99		37	22	59	69.5		29	14	43	68.4		14	4	18	68.0
90 / 94	0	52	32	84	67.9	0	46	24	70	67.1		34	12	47	66.1
85 / 89	2	52	37	91	66.3	1	51	34	86	65.6	0	47	21	68	64.7
80 / 84	9	43	45	98	64.4	7	47	43	98	64.0	2	48	34	83	63.0
75 / 79	27	29	43	99	62.3	18	35	50	102	61.8	9	42	44	94	61.1
70 / 74	55	14	34	104	60.2	41	21	42	104	59.9	25	32	52	108	59.2
65 / 69	76	4	18	98	58.1	74	7	26	106	57.8	57	15	40	111	57.5
60 / 64	58	0	5	63	55.4	80	1	8	89	55.7	82	7	24	113	55.2
55 / 59	18		0	19	52.4	25		1	25	53.0	50	1	7	58	52.0
50 / 54	1			1	49.7	1			1	50.0	12	0	1	13	47.9
45 / 49											2		0	2	43.5
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															

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

Period of Record = 1967 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		
110 / 114															
105 / 109															
100 / 104		0		0	64.5										
95 / 99		3	0	3	65.4										
90 / 94		9	1	10	64.5										
85 / 89		17	4	20	63.2		0		0	57.6					
80 / 84	0	30	9	39	61.3		1	0	1	59.2					
75 / 79	1	44	19	64	59.6		7	0	7	58.3					
70 / 74	4	49	34	87	57.6		18	2	20	57.1					
65 / 69	14	44	46	104	55.7	0	32	8	40	55.1		3	0	3	53.8
60 / 64	47	34	60	141	54.1	4	51	26	81	53.6	1	19	2	22	52.8
55 / 59	78	15	47	141	51.6	26	58	56	141	51.3	11	50	20	81	51.3
50 / 54	66	4	21	91	47.9	62	44	72	178	48.1	30	69	51	150	48.0
45 / 49	29	1	6	36	43.8	69	21	49	139	44.0	50	56	73	178	44.3
40 / 44	7		1	8	39.6	49	6	23	78	39.7	62	31	62	155	39.8
35 / 39	1		0	1	36.2	23	1	3	27	35.4	62	17	33	113	35.4
30 / 34						5	0	1	5	30.6	27	3	5	34	30.8
25 / 29						0			0	26.5	5	0	1	5	25.8
20 / 24											1	0	0	1	20.9
15 / 19											0			0	16.8

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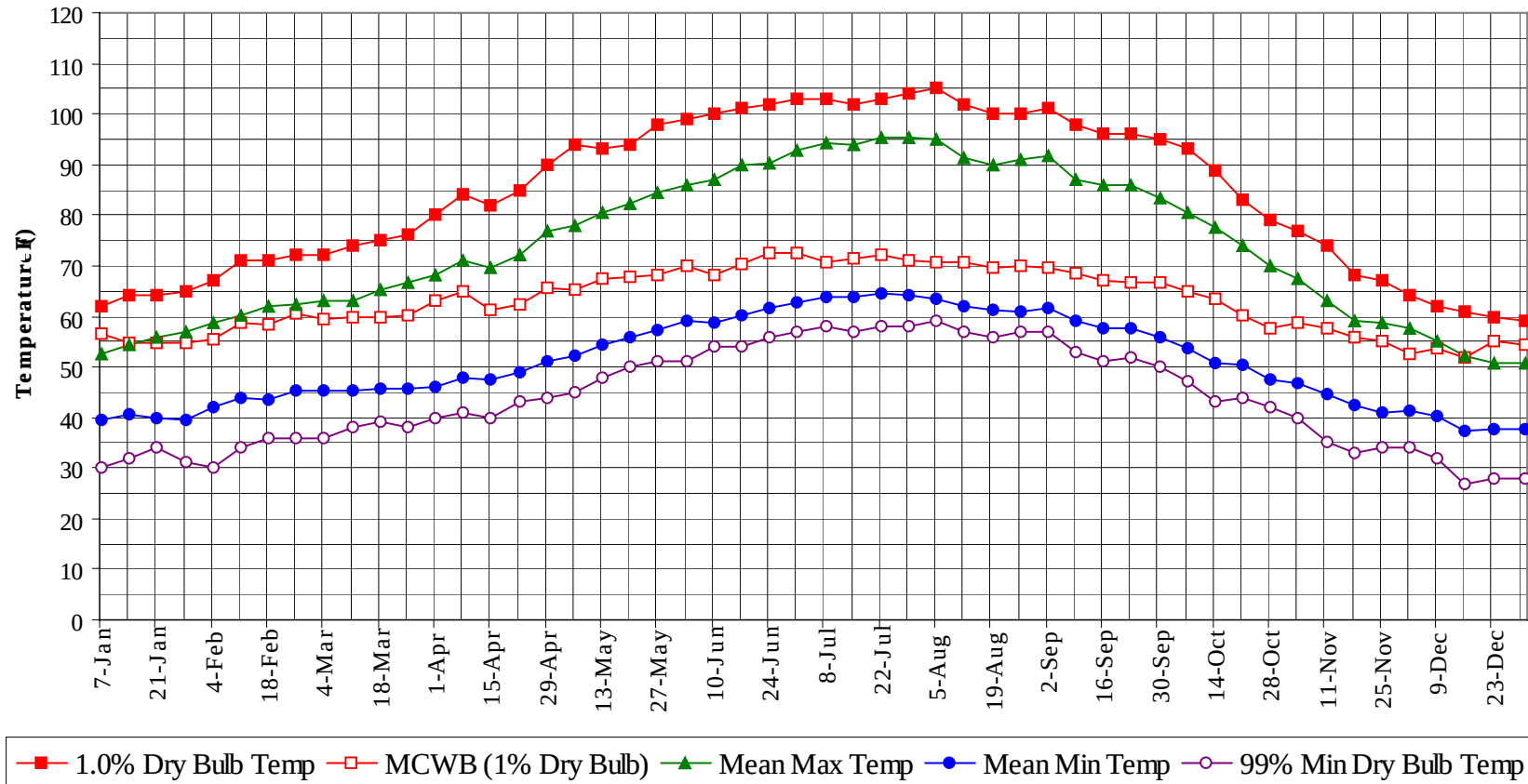
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1967 to 1996

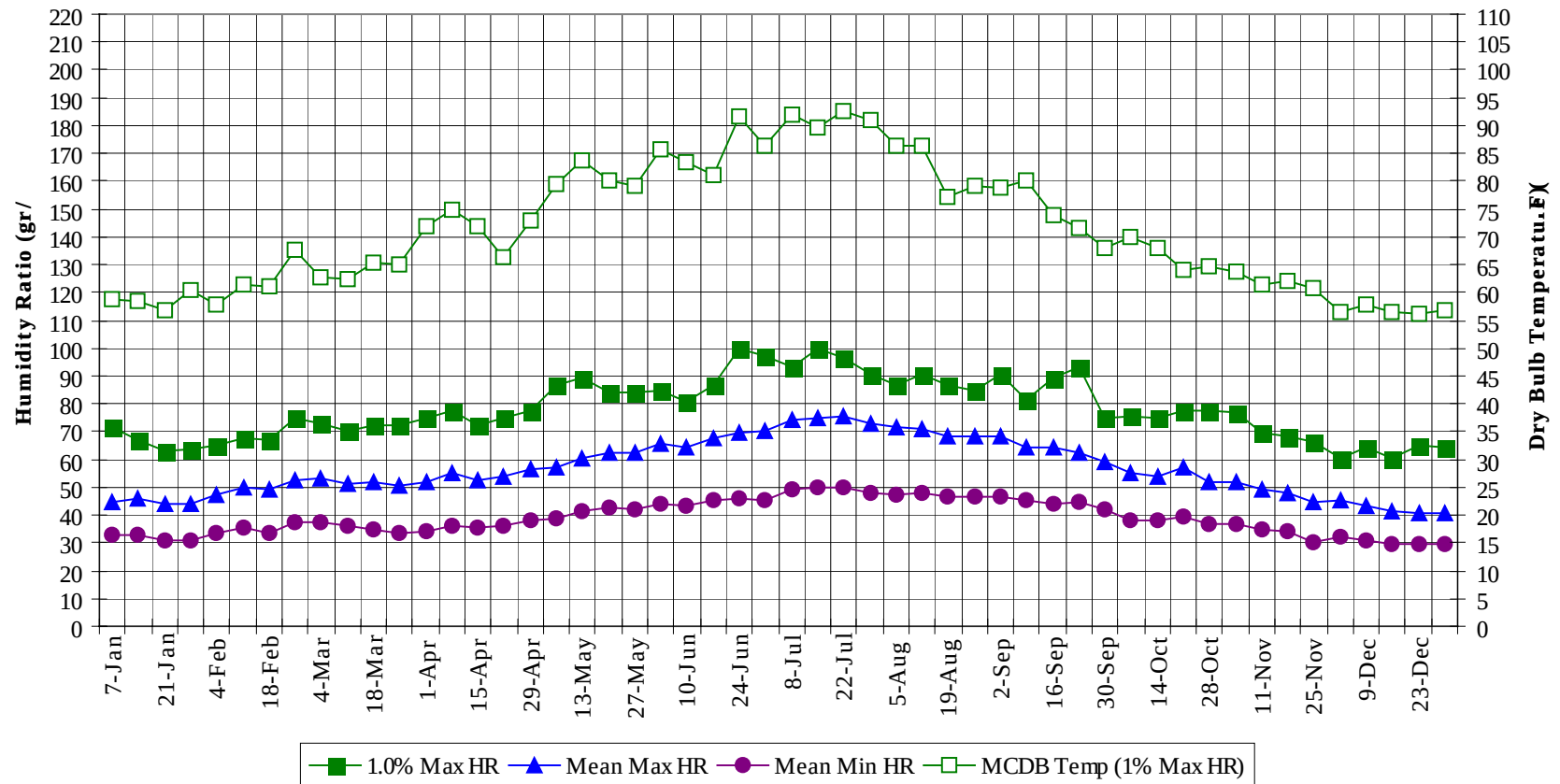
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
110 / 114		0	0	1	72.7
105 / 109		5	2	7	71.8
100 / 104		38	18	56	70.5
95 / 99		106	52	158	68.7
90 / 94	0	189	93	282	67.0
85 / 89	4	234	135	373	65.3
80 / 84	23	266	194	483	63.3
75 / 79	72	276	239	587	61.0
70 / 74	166	282	270	718	58.9
65 / 69	299	271	270	840	56.7
60 / 64	414	316	301	1032	54.3
55 / 59	453	347	375	1175	51.5
50 / 54	489	297	394	1180	48.1
45 / 49	412	175	306	892	44.0
40 / 44	311	87	181	579	39.8
35 / 39	191	38	72	301	35.5
30 / 34	64	6	12	82	30.9
25 / 29	11	0	1	12	26.0
20 / 24	1	0	0	1	20.8
15 / 19	0			0	16.8

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



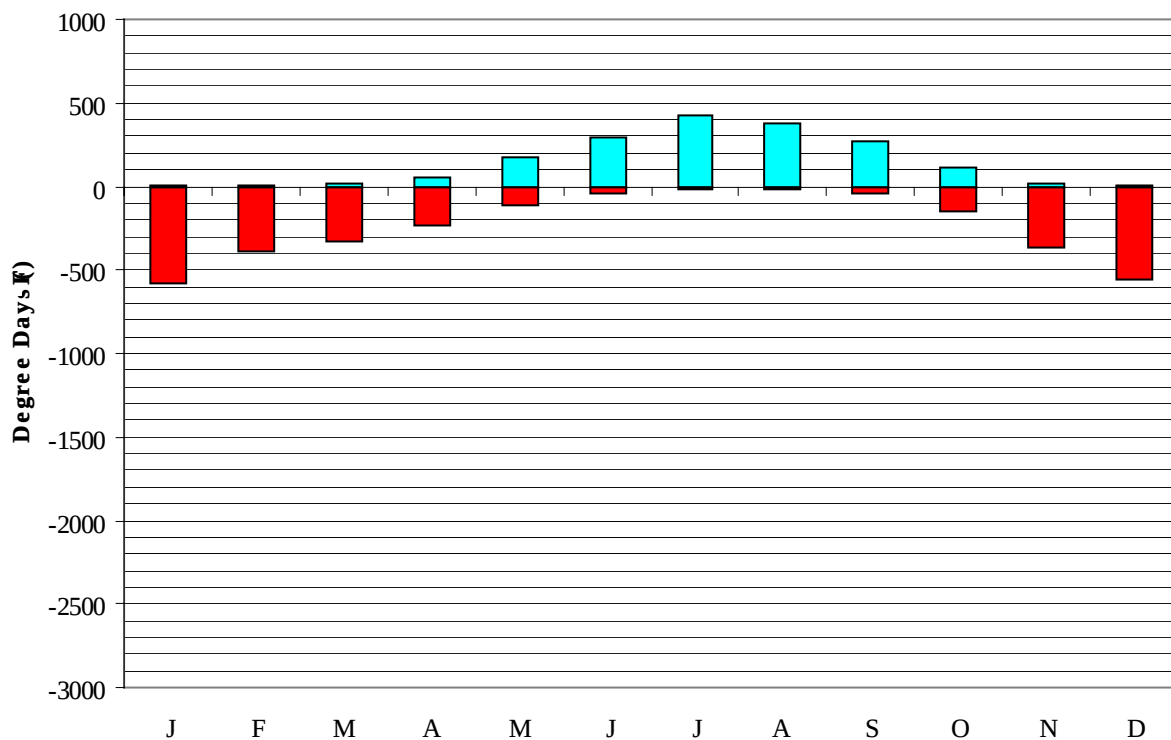
BEALE AFB/MARYSVILLE CA**WMO No. 724837****Long Term Dry Bulb Temperature and Humidity Summary**

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	62.0	56.7	52.4	39.5	30.0	71.4	58.9	44.9	32.7
14-Jan	64.0	54.8	54.5	40.5	32.0	67.2	58.5	45.7	33.1
21-Jan	64.0	54.7	55.9	39.9	34.0	63.0	56.7	44.0	30.6
28-Jan	65.0	54.9	56.8	39.6	31.0	63.7	60.4	44.1	30.6
4-Feb	67.0	55.6	58.8	42.0	30.0	65.1	57.8	47.2	33.3
11-Feb	71.0	58.6	60.1	44.0	34.0	67.9	61.3	49.6	35.4
18-Feb	71.0	58.4	62.1	43.7	36.0	67.2	61.0	49.0	33.4
25-Feb	72.0	60.5	62.5	45.3	36.0	74.9	67.6	52.8	37.2
4-Mar	72.0	59.6	63.0	45.4	36.0	72.8	62.6	52.9	37.3
11-Mar	74.0	59.6	63.0	45.5	38.0	70.0	62.6	51.1	35.9
18-Mar	75.0	60.0	65.2	45.7	39.0	72.1	65.4	52.2	35.1
25-Mar	76.0	60.1	66.8	45.8	38.0	72.1	64.9	50.5	33.5
1-Apr	80.0	63.2	68.2	46.1	40.0	74.9	72.1	51.7	34.1
8-Apr	84.0	64.9	71.1	47.7	41.0	77.7	75.0	54.9	36.0
15-Apr	82.0	61.2	69.8	47.5	40.0	72.1	71.9	52.3	35.2
22-Apr	85.0	62.2	72.2	48.8	43.0	74.9	66.3	53.7	36.4
29-Apr	90.0	65.5	76.7	51.2	44.0	77.7	72.8	56.4	38.0
6-May	94.0	65.3	78.1	52.4	45.0	86.8	79.5	57.0	38.6
13-May	93.0	67.4	80.6	54.4	48.0	89.6	83.7	60.6	41.5
20-May	94.0	67.9	82.3	55.8	50.0	84.0	80.2	62.2	42.7
27-May	98.0	68.3	84.5	57.3	51.0	84.0	79.2	62.6	41.9
3-Jun	99.0	70.1	86.0	59.0	51.0	84.7	85.6	65.4	43.9
10-Jun	100.0	68.1	87.0	58.7	54.0	80.5	83.4	64.5	43.5
17-Jun	101.0	70.2	90.1	60.3	54.0	86.8	81.1	68.0	45.3
24-Jun	102.0	72.4	90.4	61.8	56.0	100.1	91.6	69.5	45.8
1-Jul	103.0	72.6	92.7	62.8	57.0	97.3	86.4	70.1	45.6
8-Jul	103.0	70.9	94.4	63.7	58.0	93.1	91.8	74.1	49.5
15-Jul	102.0	71.3	93.8	63.8	57.0	100.1	89.6	74.7	49.6
22-Jul	103.0	72.2	95.3	64.5	58.0	96.6	92.5	75.6	49.6
29-Jul	104.0	71.1	95.5	64.1	58.0	90.3	91.0	72.8	48.0
5-Aug	105.0	70.6	94.9	63.4	59.0	86.8	86.2	71.8	47.1
12-Aug	102.0	70.9	91.5	62.1	57.0	90.3	86.3	70.8	47.7
19-Aug	100.0	69.6	90.1	61.2	56.0	86.8	77.3	68.5	47.0
26-Aug	100.0	69.9	90.9	61.1	57.0	84.7	79.3	68.5	46.5
2-Sep	101.0	69.4	91.6	61.7	57.0	90.3	78.8	68.1	46.5
9-Sep	98.0	68.5	87.0	59.0	53.0	81.2	80.0	64.6	45.0
16-Sep	96.0	67.0	85.9	57.8	51.0	89.6	73.9	64.1	44.0
23-Sep	96.0	66.8	85.8	57.7	52.0	93.1	71.5	62.5	44.4
30-Sep	95.0	66.6	83.4	55.7	50.0	74.9	67.9	59.2	42.1
7-Oct	93.0	64.8	80.6	53.5	47.0	75.6	69.9	55.0	38.3
14-Oct	89.0	63.4	77.6	50.9	43.0	74.9	68.1	53.9	38.1
21-Oct	83.0	60.2	73.8	50.5	44.0	77.7	64.0	56.9	39.7
28-Oct	79.0	57.6	70.2	47.6	42.0	77.7	64.6	52.2	36.5
4-Nov	77.0	58.8	67.4	46.6	40.0	77.0	63.6	52.1	37.0
11-Nov	74.0	57.6	63.0	44.6	35.0	69.3	61.4	49.4	35.1
18-Nov	68.0	55.9	59.2	42.3	33.0	68.6	62.2	47.9	33.9
25-Nov	67.0	55.2	58.8	40.9	34.0	66.5	60.8	44.8	30.4
2-Dec	64.0	52.7	57.8	41.3	34.0	60.2	56.6	45.3	32.0
9-Dec	62.0	53.6	55.2	40.4	32.0	64.4	57.7	43.6	30.9
16-Dec	61.0	51.7	52.3	37.5	27.0	60.2	56.5	41.7	29.3
23-Dec	60.0	55.0	50.8	37.7	28.0	65.1	56.3	40.5	29.3
31-Dec	59.0	54.3	50.7	37.6	28.0	64.4	56.8	40.6	29.3

BEALE AFB/MARYSVILLE CA

WMO No. 724837

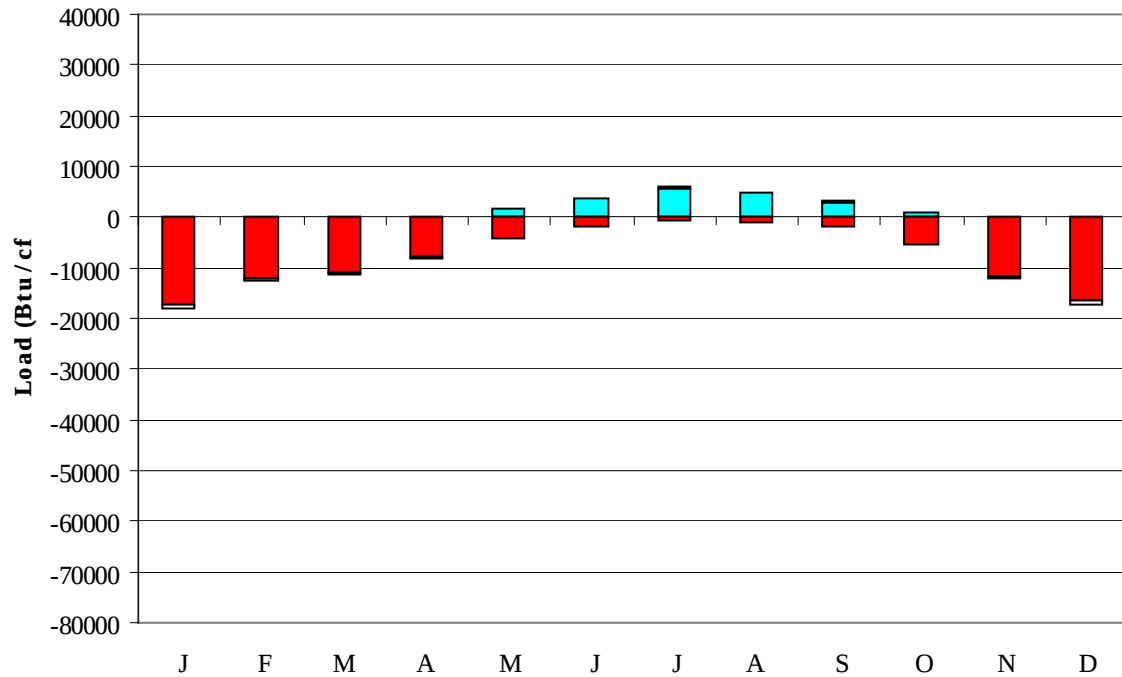
Degree Days, Heating and Cooling (Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	580
FEB	4	387
MAR	14	333
APR	55	229
MAY	174	108
JUN	296	40
JUL	425	13
AUG	376	19
SEP	271	39
OCT	117	146
NOV	12	370
DEC	0	553
ANN	1744	2817

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 (Drying) Load	■ Average Latent Heating (Humidifying) Load

	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	-17420	0	-659
FEB	2	-12146	2	-462
MAR	11	-10831	1	-351
APR	251	-7719	10	-265
MAY	1643	-4023	61	-112
JUN	3588	-1760	121	-43
JUL	5828	-724	319	-7
AUG	4893	-989	92	-8
SEP	3057	-1757	124	-47
OCT	906	-5265	6	-228
NOV	19	-11765	1	-490
DEC	0	-16624	0	-778
ANN	20198	-91023	737	-3450

Average Annual Solar Radiation – Nearest Available Site

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

City: SACRAMENTO
 State: CA
 WBAN No: 23232
 Lat(N): 38.52
 Long(W): 121.5
 Elev(ft): 26

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.491
 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

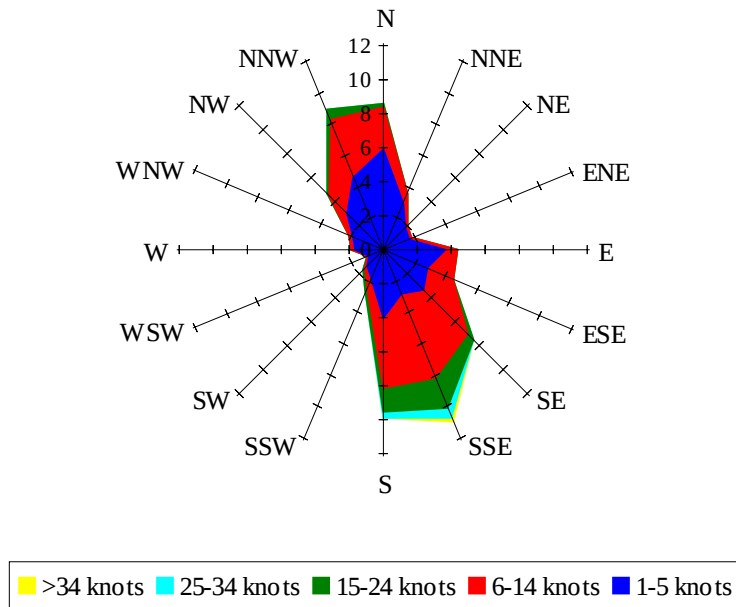
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	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

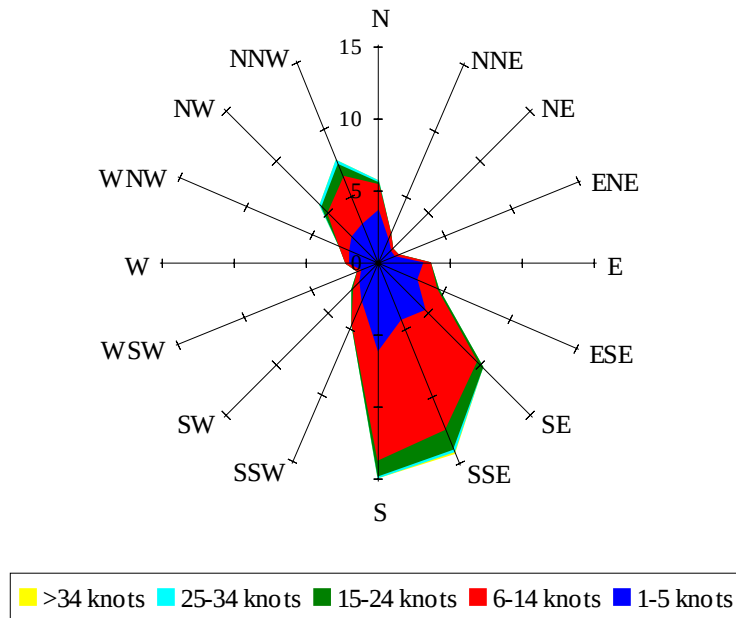
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	39	73	83	66	28	48	86	105	100	72
	M.Cloudy	24	48	56	45	18	35	62	84	80	56
NORTH	M.Clear	10	15	16	14	8	20	16	16	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 **Labels of Percent Frequency on North Axis**



Percent Calm = 24.60

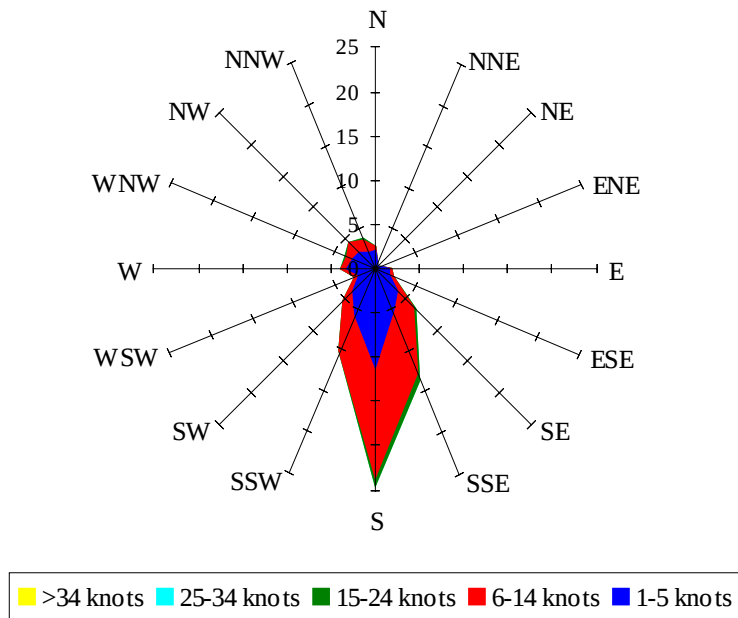
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 15.35

Wind Summary - June, July, and August

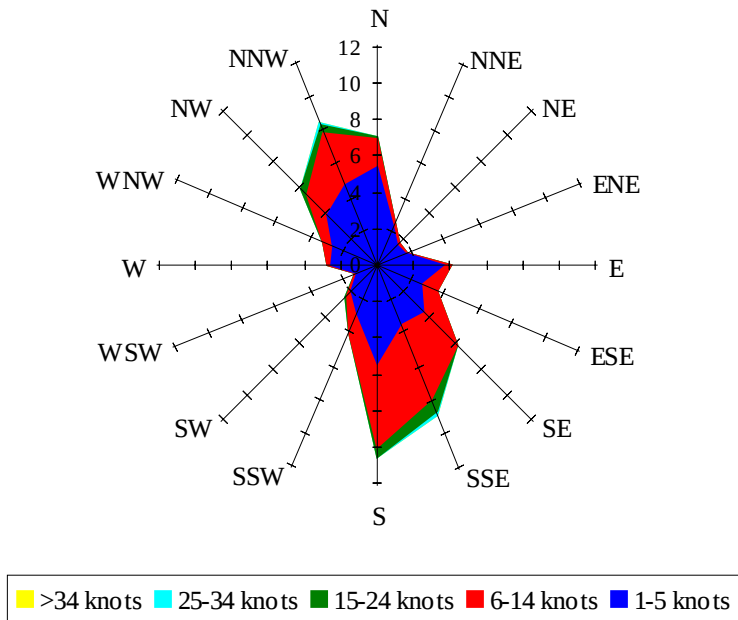
Labels of Percent Frequency on North Axis



Percent Calm = 14.74

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 25.83