

VICTORVILLE CA

Latitude = 34.58 N

Longitude = 117.30 W

Period of Record = 1963 to 1992

WMO No. 723825

Elevation = 2874 feet

Average Pressure = 27.00 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	67	47	10.0	S
0.4% Occurrence	101	65	46	9.9	S
1.0% Occurrence	99	65	46	10.0	S
2.0% Occurrence	97	64	45	9.8	S
Mean Daily Range	25	-	-	-	-
97.5% Occurrence	33	29	19	4.1	S
99.0% Occurrence	29	25	14	3.9	S
99.6% Occurrence	26	22	12	4.0	S
Median of Extreme Lows	20	16	8	3.3	S
	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	71	91	90	8.1	S
0.4% Occurrence	69	91	80	7.8	S
1.0% Occurrence	68	90	76	7.7	S
2.0% Occurrence	66	89	67	7.7	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	106	75	0.65	4.4	S
0.4% Occurrence	96	76	0.58	4.7	S
1.0% Occurrence	86	78	0.53	5.3	S
2.0% Occurrence	78	77	0.47	5.8	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		407	1550	2	175

Other Site Data

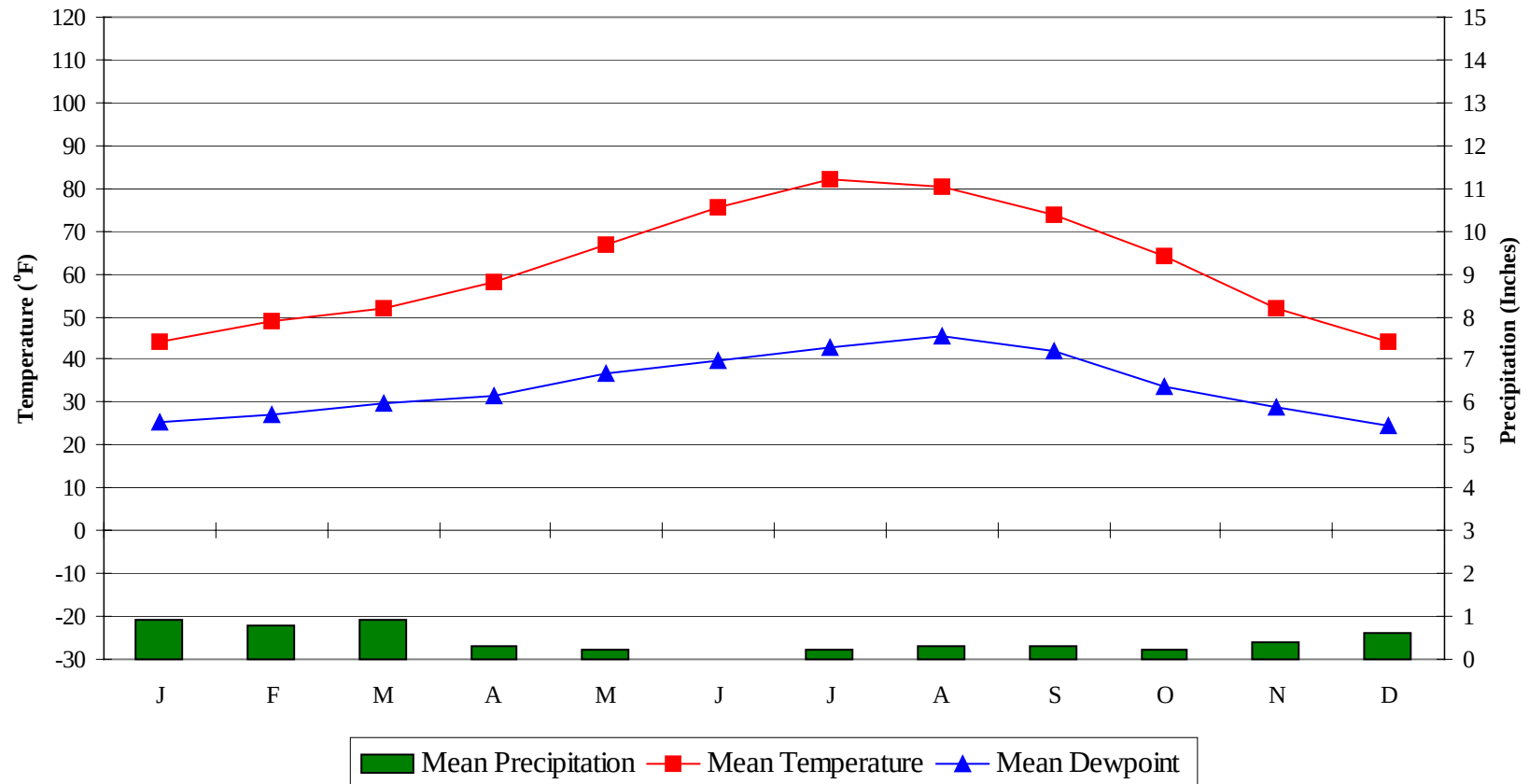
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
8	1.5	85	0.0 + 2.0
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
64.4	N/A	N/A	30

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

VICTORVILLE CA

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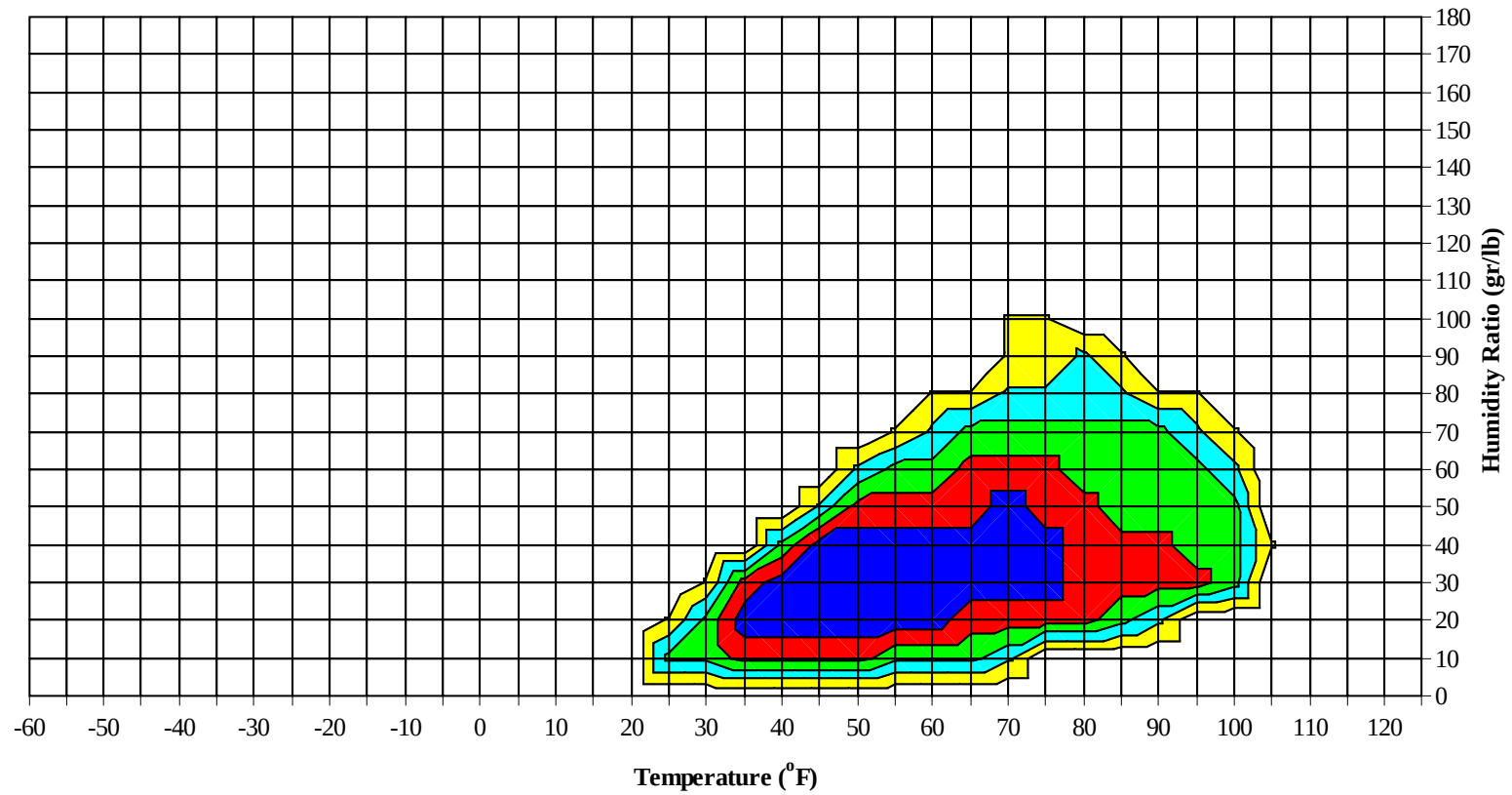
Average Annual Climate



VICTORVILLE CA

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Long Term Psychrometric Summary

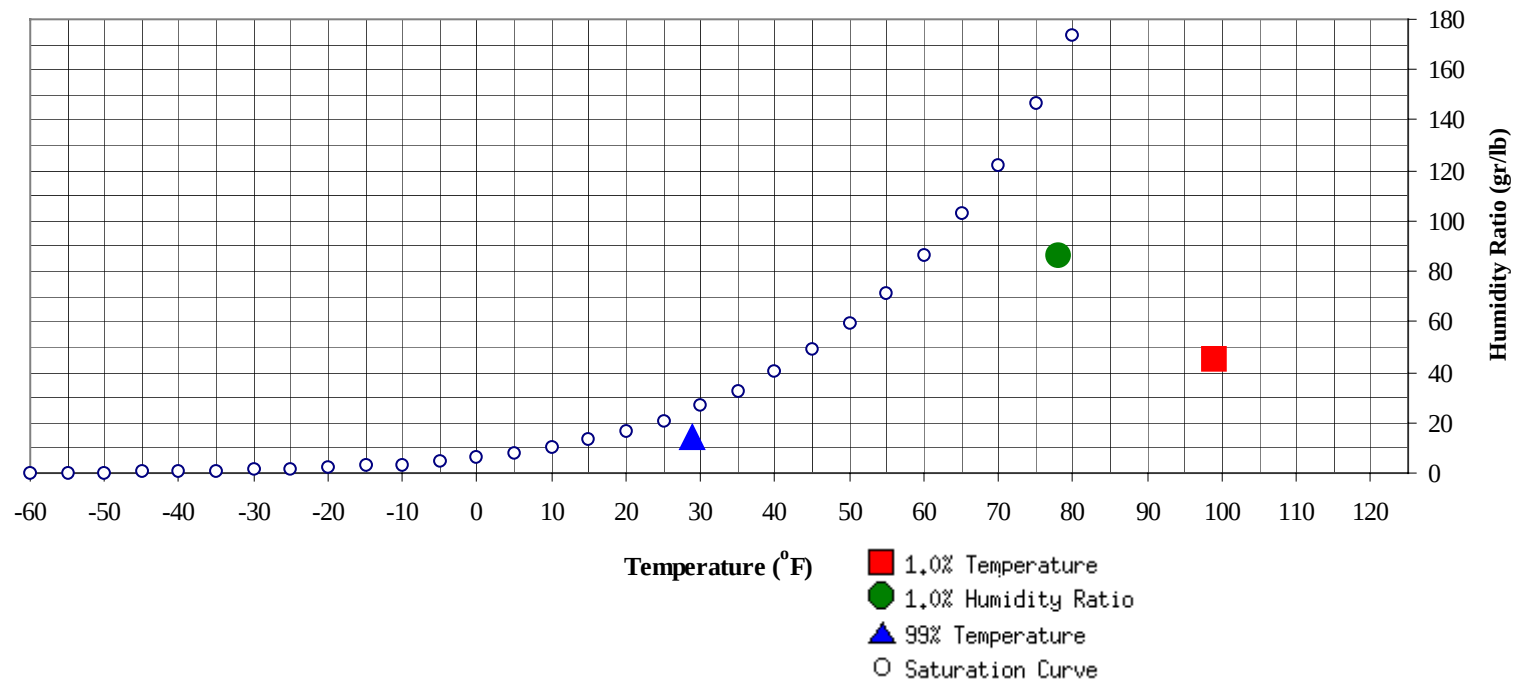


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

VICTORVILLE CA

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Psychrometric Summary of Peak Design Values



	(°F)	MCHR	Enthalpy	1.0% Humidity Ratio	(gr/lb)	MCDB	MCWB	MC Dewpt	Enthalpy
		(gr/lb)	(btu/lb)			(°F)	(°F)	(°F)	(btu/lb)
99% Dry Bulb	29	14.1	9.1	Ratio	86.1	77.9	65.9	60.1	32.2

1.0% Dry Bulb	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
99	45.5	64.6	30.9	

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

Period of Record = 1963 to 1992

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												0	0	0	54.8
80 / 84							1	0	1	56.0		3	0	3	53.9
75 / 79		0		0	50.0		4	0	4	52.4		11	2	13	52.3
70 / 74		2	0	2	49.5		13	3	16	50.1		23	6	29	50.4
65 / 69		14	1	15	47.7		29	8	36	48.2	0	35	13	47	48.4
60 / 64		28	5	33	46.0	1	37	16	54	46.1	2	47	26	75	46.7
55 / 59	1	45	15	61	44.3	5	43	29	78	44.2	12	49	41	102	44.9
50 / 54	7	55	35	97	42.1	22	45	50	117	42.5	40	44	56	141	42.9
45 / 49	28	48	54	131	39.4	49	30	48	127	39.5	66	25	56	147	40.3
40 / 44	58	35	64	157	35.9	59	16	39	114	35.8	73	10	35	118	36.8
35 / 39	68	16	45	129	32.1	51	5	23	79	31.9	40	1	12	53	32.7
30 / 34	54	4	22	80	27.9	28	1	7	36	27.6	13	0	2	15	28.2
25 / 29	24	1	6	31	23.1	7	0	1	8	23.0	1		0	1	23.6
20 / 24	6	0	1	7	18.1	2	0	0	2	17.9					
15 / 19	1		0	1	12.9	0		0	0	13.7					
10 / 14															
5 / 9															

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 2 of 5)

Period of Record = 1963 to 1992

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	09	17			01	09	17			01	09	17		
	To 08	To 16	To 00			To 08	To 16	To 00			To 08	To 16	To 00		
110 / 114											1 66.0				
105 / 109											12 2 14 64.0				
100 / 104											27 7 34 62.6				
95 / 99	0 0 62.0					4 1 5 61.7					27 7 34 62.6				
90 / 94	1 0 1 58.1					17 3 20 59.8					0 46 14 60 60.7				
85 / 89	8 1 9 56.6					0 36 9 44 58.2					2 54 23 79 59.0				
80 / 84	19 5 24 54.7					1 48 17 66 56.5					7 40 32 80 57.8				
75 / 79	0	31	10	41	52.7	5	46	26	77	54.9	19	27	41	87	56.4
70 / 74	1	40	19	60	51.0	12	36	38	85	53.4	44	18	45	107	54.9
65 / 69	4	41	26	71	49.2	32	27	44	103	51.7	56	10	37	104	53.0
60 / 64	15	38	39	92	47.6	50	20	45	115	49.7	54	4	24	82	50.9
55 / 59	36	31	45	111	45.5	57	10	34	101	47.3	35	1	11	47	48.8
50 / 54	63	21	45	128	43.2	51	4	22	77	44.6	17	0	4	21	46.1
45 / 49	61	9	34	103	40.2	29	1	9	39	41.3	4		0	4	42.1
40 / 44	41	2	15	58	36.9	9	0	1	10	37.4	0			0	38.1
35 / 39	17	0	3	20	33.0	1	0	0	1	34.5	0			0	34.0
30 / 34	2	0	0	2	30.1										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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WMO No. 723825

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

Period of Record = 1963 to 1992

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	67.0										
105 / 109		5	0	5	67.1		1	0	1	67.0					
100 / 104		28	5	33	65.5		19	3	22	66.4		2	0	2	65.4
95 / 99		64	18	82	63.9		55	12	66	64.7		18	3	21	63.7
90 / 94	1	66	31	98	62.3	0	68	25	93	63.1		46	10	56	62.0
85 / 89	5	49	40	94	61.2	3	53	36	91	61.9	0	53	20	72	60.2
80 / 84	25	24	51	100	60.2	17	32	51	100	61.0	3	46	32	80	58.9
75 / 79	56	9	54	119	58.5	51	15	55	121	59.7	14	34	44	92	57.7
70 / 74	75	3	35	113	56.3	75	5	40	119	57.6	41	22	50	112	56.3
65 / 69	54	0	12	65	52.9	55	1	20	76	54.3	60	12	40	112	54.0
60 / 64	26		3	29	50.6	34	0	6	40	51.9	59	7	25	91	51.6
55 / 59	7		0	7	48.3	11		1	12	50.1	39	2	12	53	49.3
50 / 54	0			0	47.3	2		0	2	48.3	16	0	5	21	45.3
45 / 49											6	0	1	7	41.3
40 / 44											1			1	38.1
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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VICTORVILLE CA

WMO No. 723825

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

Period of Record = 1963 to 1992

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															
95 / 99		1		1	61.0										
90 / 94		12	1	13	59.4										
85 / 89		21	4	25	57.6		0		0	57.5					
80 / 84		39	9	47	55.7		4	0	4	54.7					
75 / 79	0	45	18	63	54.2		13	1	14	52.4		0		0	51.2
70 / 74	5	46	32	83	52.7	0	30	3	32	50.9		5		5	50.2
65 / 69	20	40	45	105	51.0	0	36	11	47	49.3		12	1	13	48.6
60 / 64	42	28	54	123	49.1	3	45	22	70	47.2	0	34	4	38	46.0
55 / 59	67	14	46	126	46.8	14	45	41	101	45.2	2	47	15	63	43.9
50 / 54	65	3	27	94	43.4	46	34	58	139	43.1	9	54	37	100	41.7
45 / 49	33	0	12	45	38.8	64	22	44	130	39.6	29	43	50	121	39.2
40 / 44	12		2	14	34.6	49	8	35	92	35.8	49	32	60	141	35.6
35 / 39	4		0	4	29.9	40	2	19	61	31.6	71	16	50	137	31.8
30 / 34	0		0	0	25.3	19	1	5	24	28.0	57	6	23	86	28.1
25 / 29						4	0	1	5	23.5	22	1	7	30	23.5
20 / 24						0			0	18.9	5	0	2	7	18.5
15 / 19											2	0	0	2	13.4
10 / 14											1		0	1	9.1
5 / 9											0			0	6.0

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WMO No. 723825

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

Period of Record = 1963 to 1992

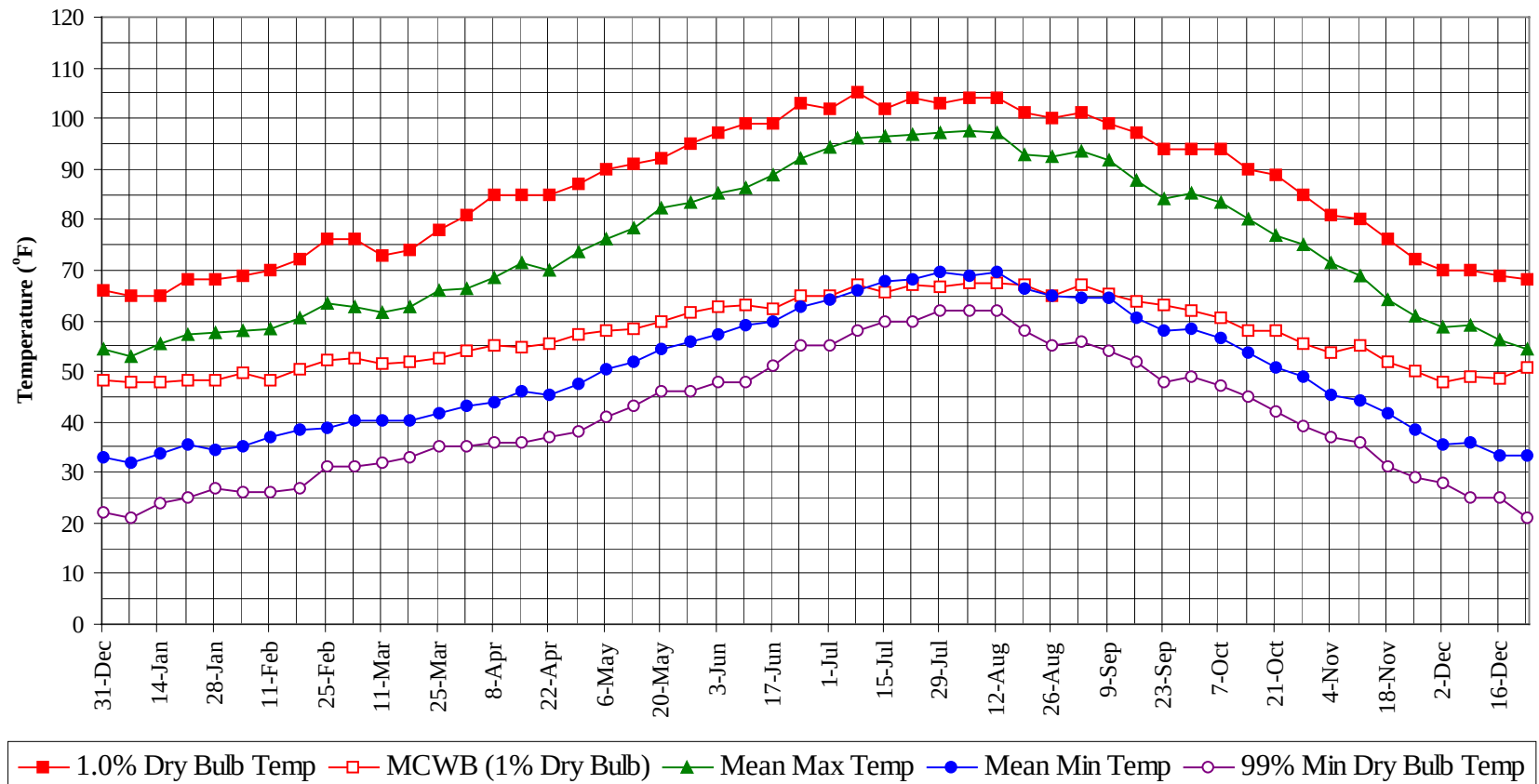
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
110 / 114	0			0	67.0
105 / 109	7			1	8
100 / 104	60			10	70
95 / 99	166			40	205
90 / 94	1	253	83	337	61.9
85 / 89	10	271	130	412	60.1
80 / 84	52	253	196	501	58.5
75 / 79	145	236	250	630	56.7
70 / 74	252	242	267	761	54.5
65 / 69	282	255	255	792	51.6
60 / 64	286	290	267	843	48.8
55 / 59	285	288	289	863	45.9
50 / 54	340	262	341	943	43.0
45 / 49	368	178	311	858	39.7
40 / 44	355	103	251	708	36.1
35 / 39	293	40	152	486	32.0
30 / 34	173	12	59	244	28.0
25 / 29	58	3	15	76	23.3
20 / 24	13	0	3	16	18.3
15 / 19	3	0	1	4	13.2
10 / 14	1		0	1	9.1
5 / 9	0			0	6.0

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.

VICTORVILLE CA

WMO No. 723825

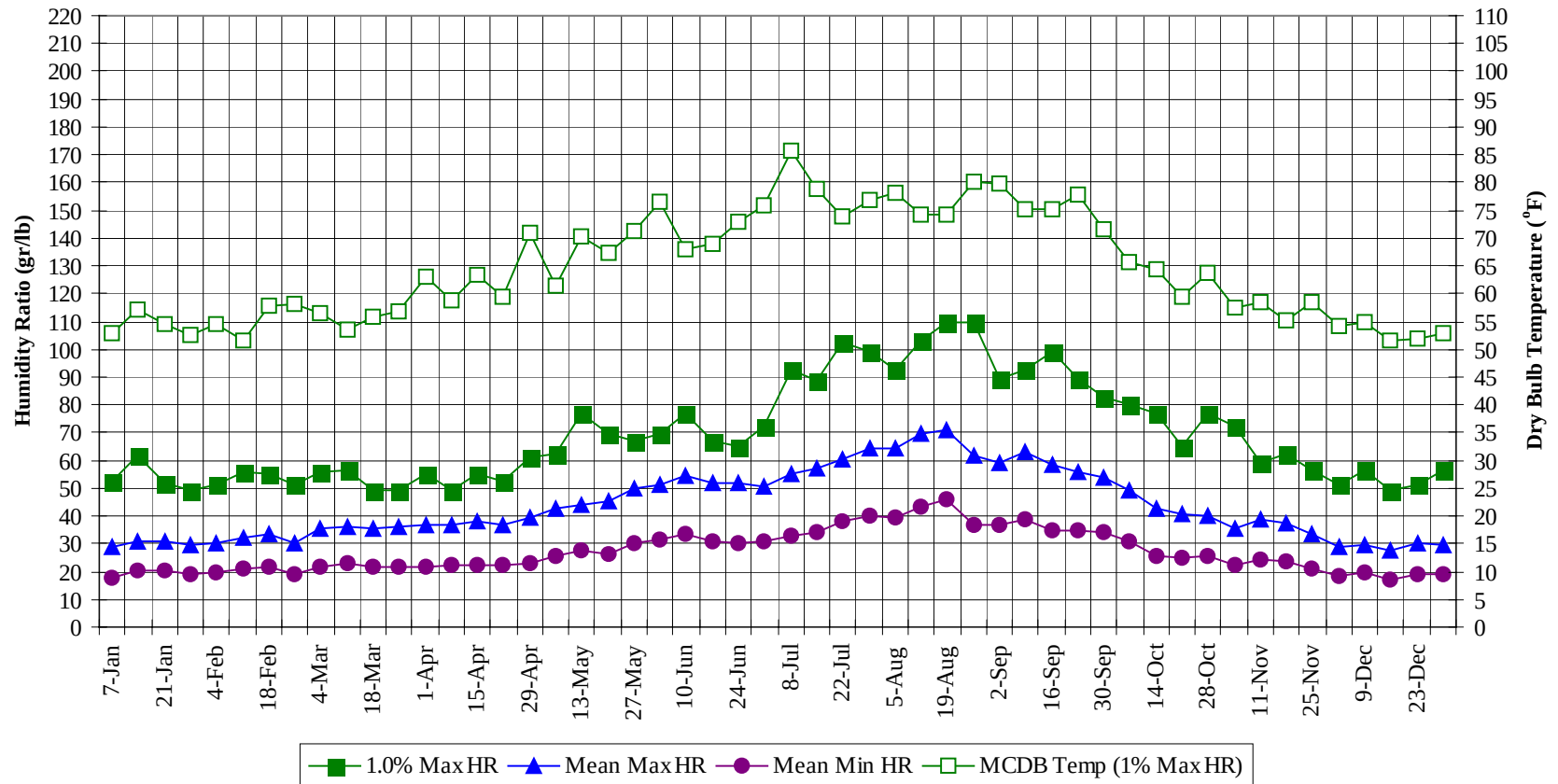
Annual Summary of Temperatures



VICTORVILLE CA

WMO No. 723825

Long Term Humidity and Dry Bulb Temperature Summary

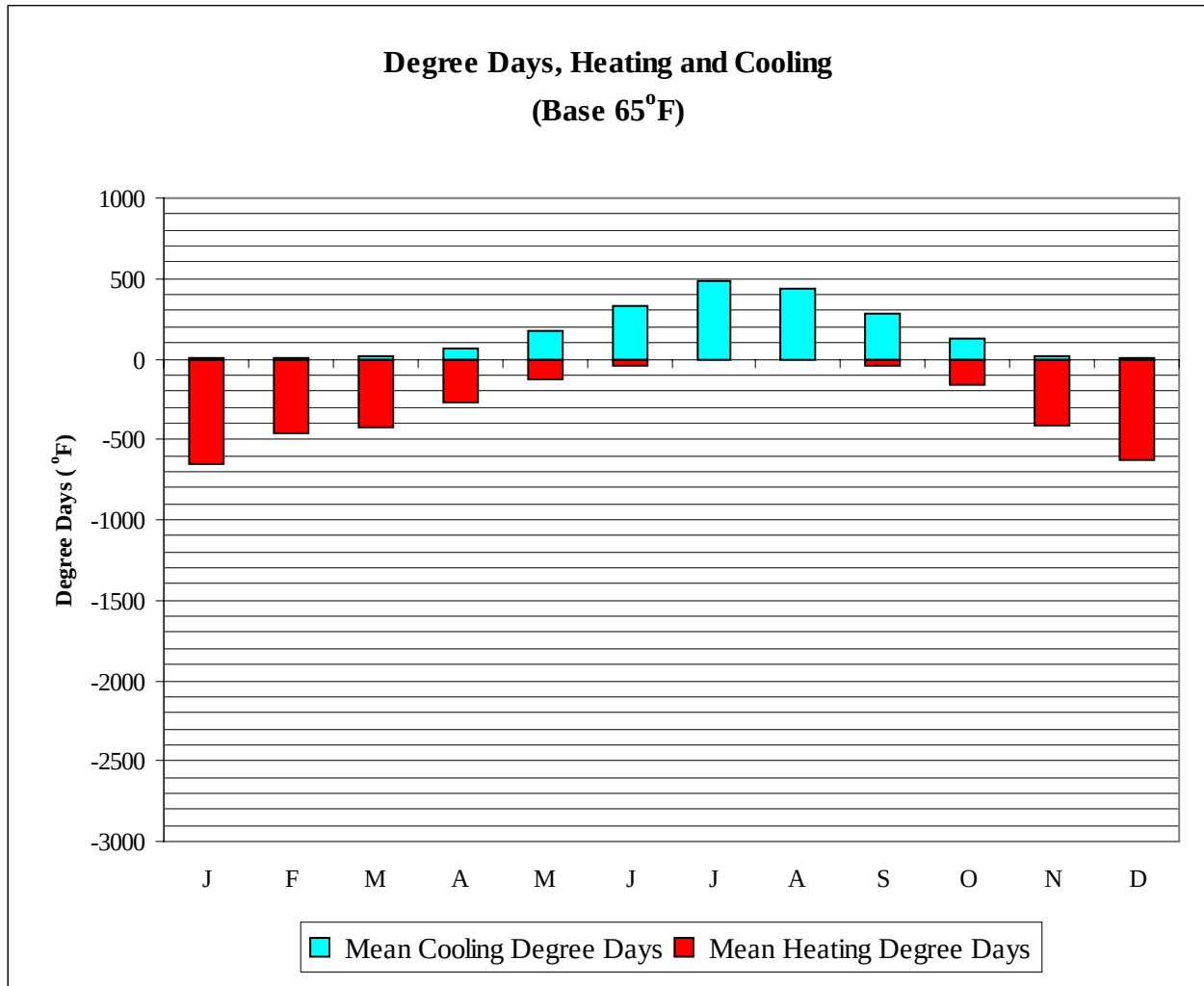


VICTORVILLE CA**WMO No. 723825****Long Term Dry Bulb Temperature and Humidity Summary**

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	65.0	47.8	52.9	32.0	21.0	52.5	52.8	28.8	17.5
14-Jan	65.0	48.0	55.5	33.8	24.0	61.6	57.2	31.0	20.1
21-Jan	68.0	48.1	57.4	35.5	25.0	51.8	54.5	30.8	20.6
28-Jan	68.0	48.1	57.5	34.5	27.0	49.0	52.5	29.5	18.9
4-Feb	69.0	49.8	58.0	35.3	26.0	51.1	54.6	29.9	19.6
11-Feb	70.0	48.2	58.5	37.1	26.0	56.0	51.7	32.3	21.3
18-Feb	72.0	50.4	60.6	38.3	27.0	55.3	57.7	33.3	21.4
25-Feb	76.0	52.1	63.4	38.9	31.0	51.1	58.2	30.1	18.8
4-Mar	76.0	52.7	62.8	40.2	31.0	56.0	56.5	35.1	22.0
11-Mar	73.0	51.5	61.7	40.4	32.0	56.7	53.4	36.2	22.9
18-Mar	74.0	51.8	62.7	40.3	33.0	49.0	55.9	35.3	21.6
25-Mar	78.0	52.5	65.9	41.7	35.0	49.0	56.7	36.0	21.7
1-Apr	81.0	53.8	66.4	43.2	35.0	55.3	62.9	37.1	21.6
8-Apr	85.0	55.2	68.6	43.7	36.0	49.0	58.9	36.7	22.1
15-Apr	85.0	54.8	71.5	46.1	36.0	55.3	63.5	38.1	22.6
22-Apr	85.0	55.4	70.1	45.5	37.0	52.5	59.4	36.7	22.2
29-Apr	87.0	57.2	73.8	47.5	38.0	60.9	71.0	39.4	23.0
6-May	90.0	58.1	76.0	50.4	41.0	62.3	61.5	42.4	25.9
13-May	91.0	58.4	78.1	51.7	43.0	77.0	70.3	44.3	27.3
20-May	92.0	60.0	82.3	54.3	46.0	69.3	67.2	45.6	26.3
27-May	95.0	61.8	83.5	56.0	46.0	67.2	71.4	49.8	30.2
3-Jun	97.0	62.8	85.3	57.4	48.0	69.3	76.7	51.2	31.6
10-Jun	99.0	63.0	86.5	59.0	48.0	77.0	68.0	54.2	33.3
17-Jun	99.0	62.5	88.8	60.0	51.0	67.2	68.9	51.7	30.7
24-Jun	103.0	64.8	92.2	62.6	55.0	65.1	72.8	51.9	30.4
1-Jul	102.0	64.7	94.1	64.1	55.0	72.1	75.8	50.8	30.8
8-Jul	105.0	67.1	96.0	66.2	58.0	92.4	85.7	55.5	32.9
15-Jul	102.0	65.7	96.4	67.9	60.0	88.9	79.0	57.4	34.4
22-Jul	104.0	67.0	96.6	68.3	60.0	102.2	74.0	60.3	38.2
29-Jul	103.0	66.7	97.3	69.7	62.0	99.4	76.7	64.4	40.0
5-Aug	104.0	67.4	97.5	69.0	62.0	92.4	78.0	64.2	39.5
12-Aug	104.0	67.3	97.0	69.5	62.0	102.9	74.3	69.6	43.1
19-Aug	101.0	67.1	92.9	66.3	58.0	109.9	74.1	71.1	45.9
26-Aug	100.0	65.0	92.6	64.7	55.0	109.9	80.1	61.8	36.9
2-Sep	101.0	67.0	93.4	64.5	56.0	89.6	79.8	58.8	36.8
9-Sep	99.0	65.2	91.6	64.5	54.0	92.4	75.3	62.9	39.1
16-Sep	97.0	63.9	87.9	60.5	52.0	99.4	75.1	58.3	34.5
23-Sep	94.0	63.0	84.1	58.0	48.0	89.6	77.9	55.8	34.9
30-Sep	94.0	62.0	85.3	58.5	49.0	82.6	71.6	53.6	33.9
7-Oct	94.0	60.6	83.2	56.6	47.0	79.8	65.8	49.5	30.7
14-Oct	90.0	58.1	80.1	53.5	45.0	77.0	64.3	43.0	25.9
21-Oct	89.0	58.0	77.0	50.7	42.0	65.1	59.4	40.6	25.1
28-Oct	85.0	55.5	75.0	48.9	39.0	77.0	63.7	40.3	25.3
4-Nov	81.0	53.8	71.3	45.3	37.0	72.1	57.5	35.6	22.1
11-Nov	80.0	55.0	69.0	44.3	36.0	58.8	58.4	38.7	24.3
18-Nov	76.0	52.0	64.2	41.7	31.0	62.3	55.3	37.6	23.6
25-Nov	72.0	49.9	60.9	38.5	29.0	56.7	58.4	33.4	21.2
2-Dec	70.0	47.8	58.9	35.5	28.0	51.1	54.3	29.0	18.3
9-Dec	70.0	49.1	59.0	35.9	25.0	56.7	54.9	29.8	19.4
16-Dec	69.0	48.7	56.4	33.3	25.0	49.0	51.7	27.4	17.0
23-Dec	68.0	50.9	54.4	33.2	21.0	51.1	51.9	29.9	19.2
31-Dec	66.0	48.4	54.3	33.1	22.0	56.7	52.9	29.4	18.9

VICTORVILLE CA

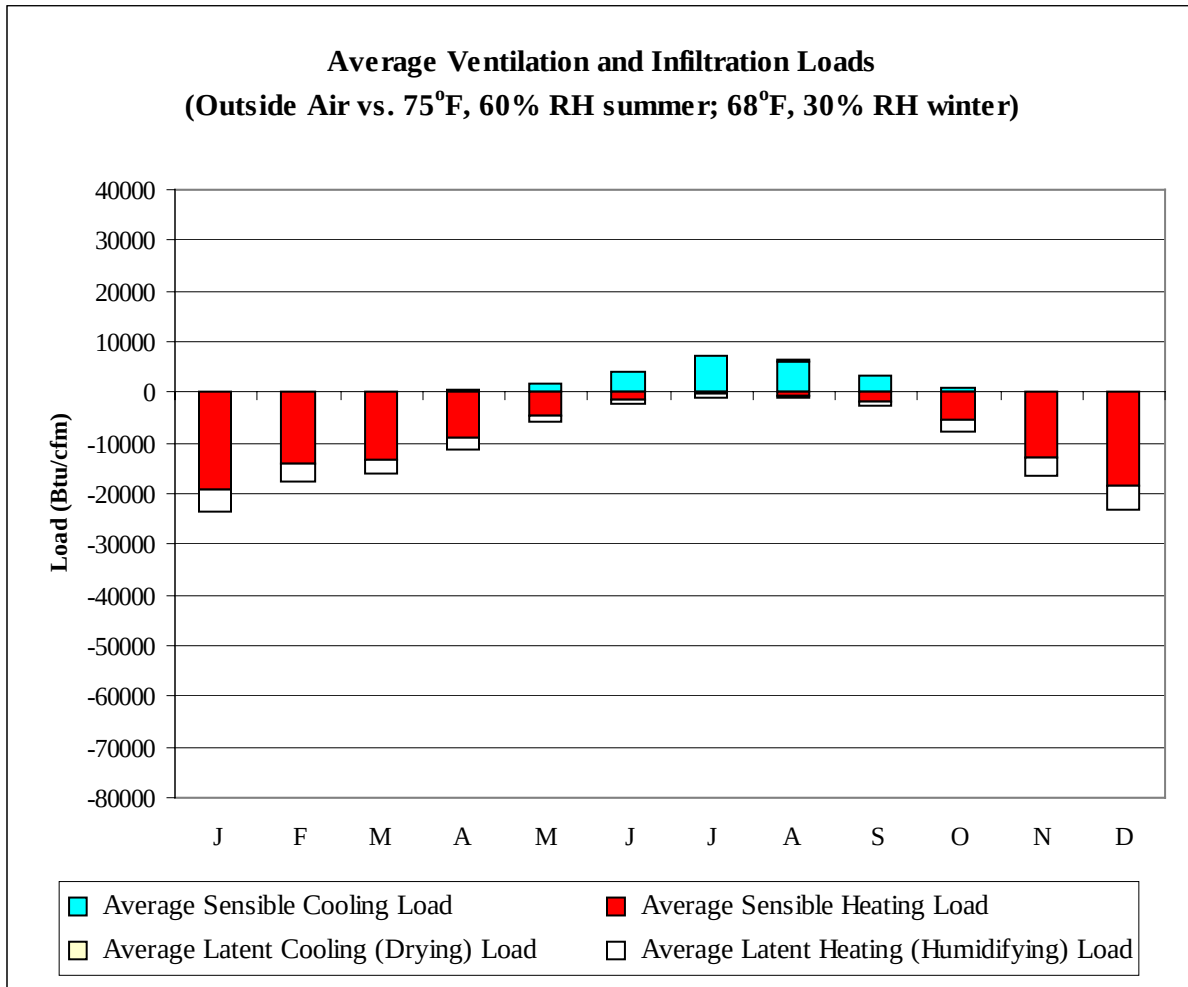
WMO No. 723825



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	1	649
FEB	9	461
MAR	19	424
APR	64	275
MAY	175	125
JUN	327	38
JUL	483	5
AUG	437	9
SEP	276	43
OCT	122	158
NOV	20	414
DEC	2	626
ANN	1936	3227

VICTORVILLE CA

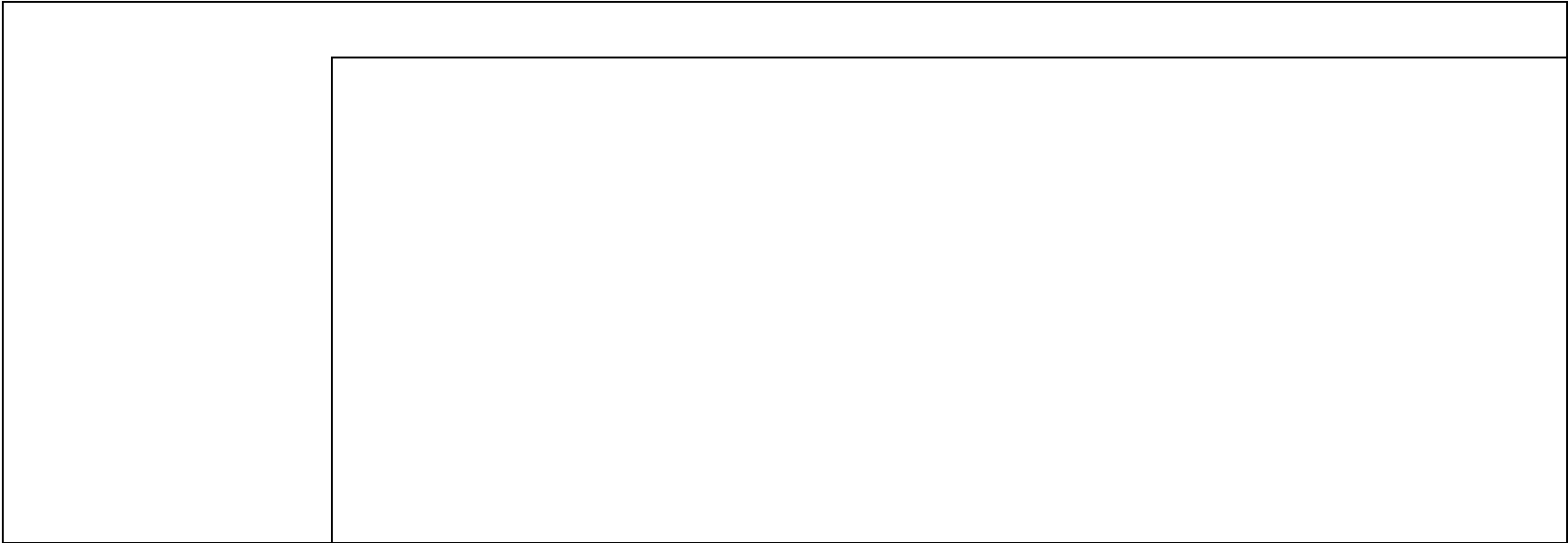
WMO No. 723825



	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	0	-19192	0	-4282
FEB	11	-14006	0	-3498
MAR	50	-13178	0	-2727
APR	392	-8886	0	-2294
MAY	1685	-4477	1	-1266
JUN	4148	-1604	3	-641
JUL	7124	-315	101	-554
AUG	6124	-492	222	-414
SEP	3301	-1791	45	-660
OCT	1038	-5545	2	-2224
NOV	48	-12807	0	-3502
DEC	0	-18529	0	-4514
ANN	23921	-100822	374	-26576

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

No Solar Radiation
Data Available

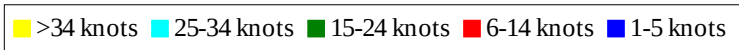
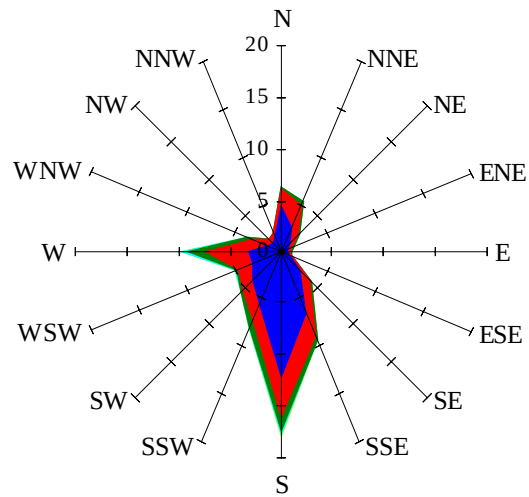


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

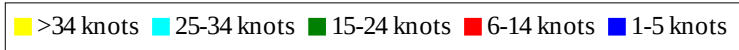
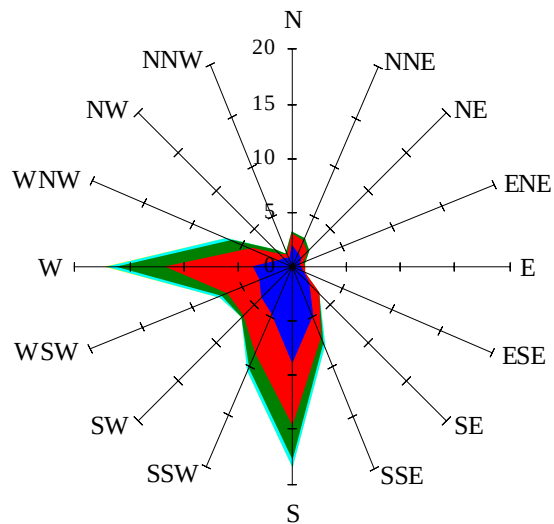
Labels of Percent Frequency on North Axis



Percent Calm = 17.07

Wind Summary - March, April, and May

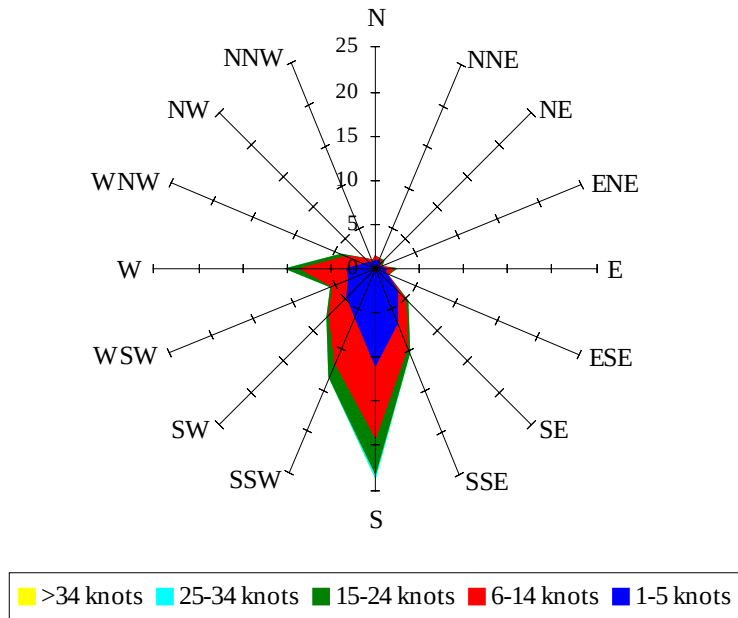
Labels of Percent Frequency on North Axis



Percent Calm = 8.56

Wind Summary - June, July, and August

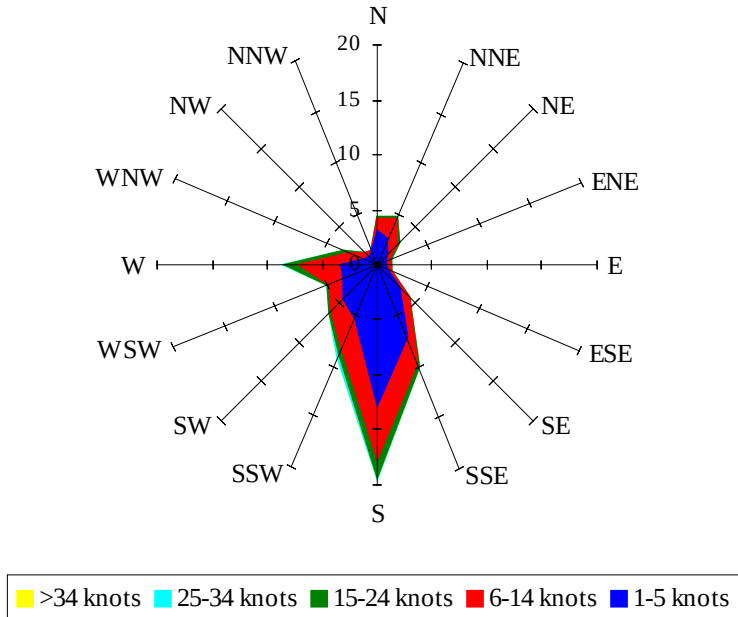
Labels of Percent Frequency on North Axis



Percent Calm = 9.69

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 15.13