

SHEPHERD BAY CN

Latitude = 68.82 N

WMO No. 719110

Longitude = 93.43 W

Elevation = 138 feet

Period of Record = 1973 to 1996

Average Pressure = 29.74 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	67	56	50	11.4	SW
0.4% Occurrence	63	54	49	11.8	SW
1.0% Occurrence	59	52	47	11.7	NE
2.0% Occurrence	55	49	43	11.1	SW
Mean Daily Range	11	-	-	-	-
97.5% Occurrence	-45	-45	.	6.3	SE
99.0% Occurrence	-47	.	.	5.8	SE
99.6% Occurrence	-49	.	.	5.1	SE
Median of Extreme Lows	-50	.	.	5.0	SE
	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	59	65	62	11.6	E
0.4% Occurrence	55	62	53	12.0	SW
1.0% Occurrence	53	59	50	11.6	S
2.0% Occurrence	51	56	47	11.0	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	71	64	0.47	15.7	S
0.4% Occurrence	57	58	0.39	11.6	S
1.0% Occurrence	51	56	0.34	11.6	E
2.0% Occurrence	47	54	0.32	10.9	E
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		0	0	0	0

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
1	N/A	N/A	0.0 + 0.0
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 (#)
7.2	N/A	N/A	21

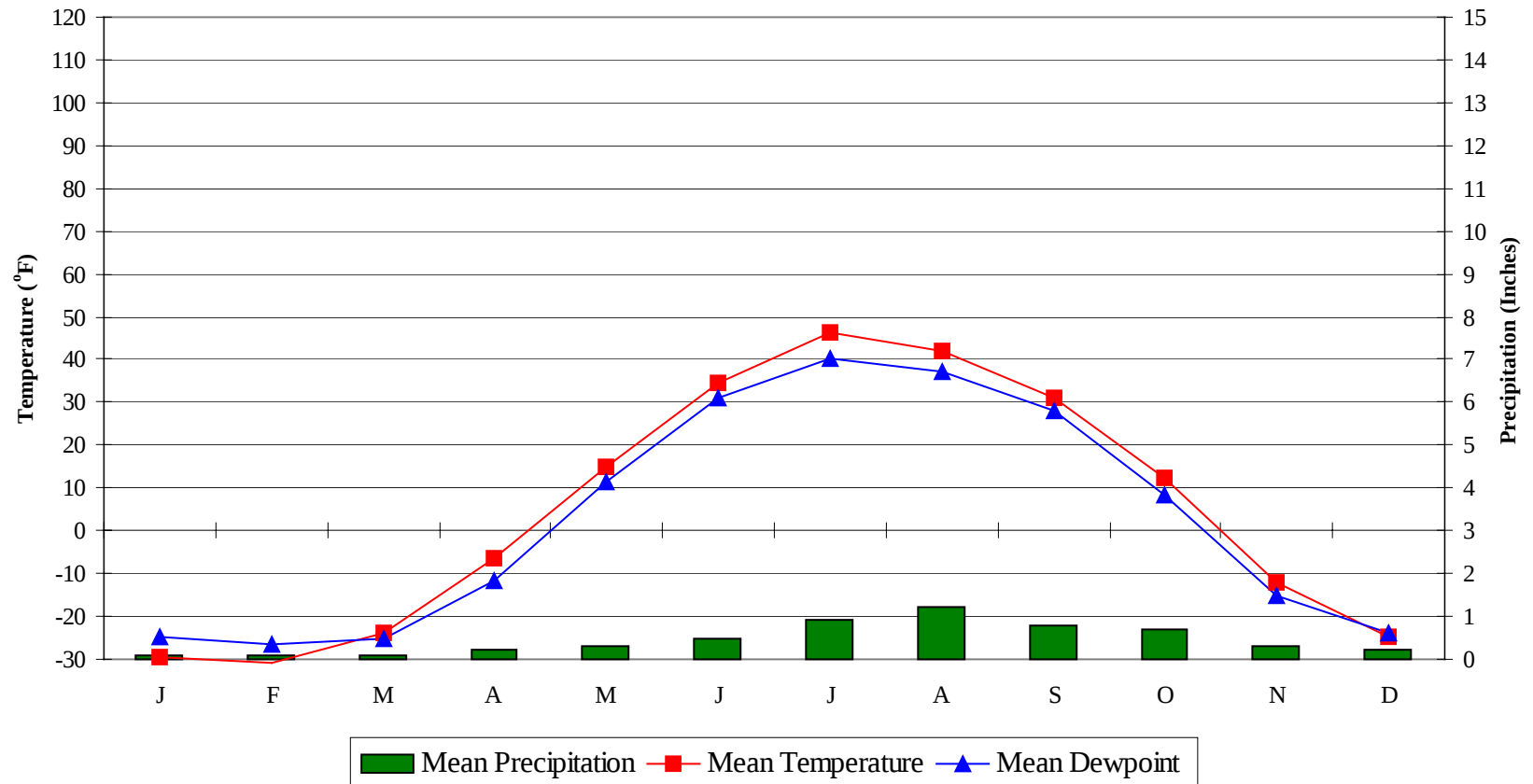
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

SHEPHERD BAY

CN

WMO No. 719110

Average Annual Climate

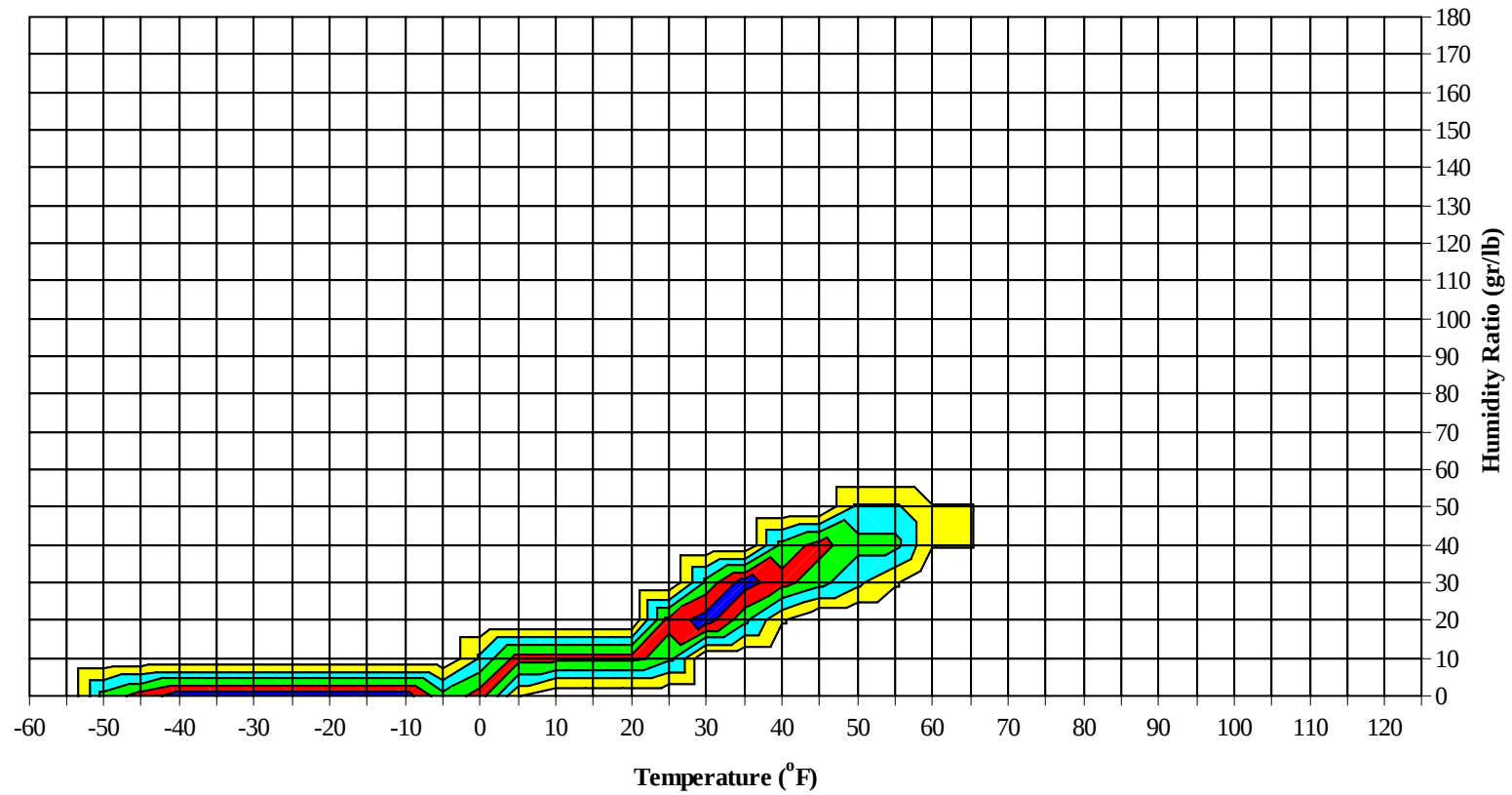


SHEPHERD BAY

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WMO No. 719110

Long Term Psychrometric Summary

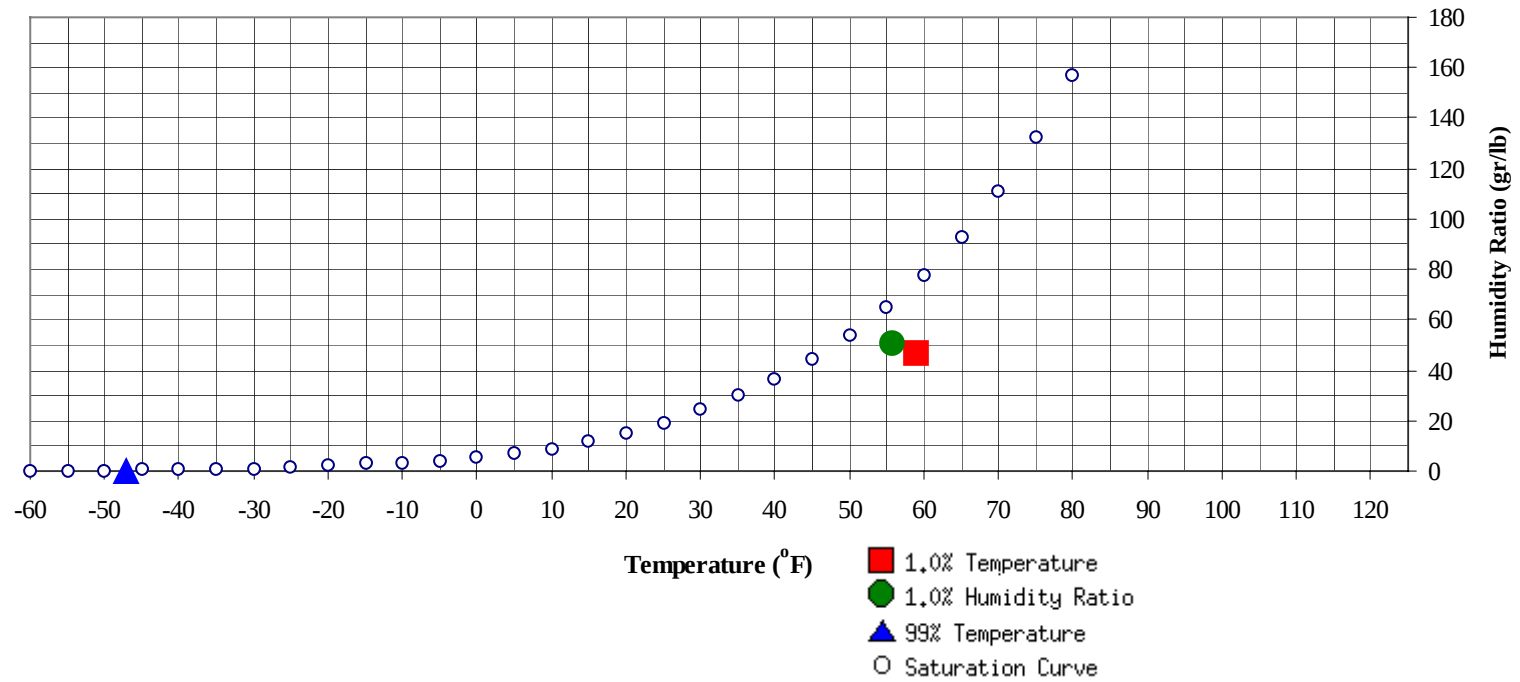


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

SHEPHERD BAY CN

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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)
	-47	0	-11.3		51.1	55.8	51.6	48.2	21.3

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	59	46.4	51.9	21.4

SHEPHERD BAY CN

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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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64															
55 / 59															
50 / 54															
45 / 49							0		0	30.0					
40 / 44							0		0						
35 / 39	0	0	0	0	28.0		0		0						
30 / 34	0	0	0	0			0		0						
25 / 29	0	0	0	0			0		0						
20 / 24	0	0	0	0	20.9		0		0			0		0	21.0
15 / 19	1	1	1	3	16.8		0		0		0	1	0	1	15.9
10 / 14	1	2	1	4	10.9		0	0	0	9.8	2	2	2	6	10.9
5 / 9	3	3	3	10	6.2	1	2	1	5	5.3	5	9	7	20	5.7
0 / 4	5	5	4	14	0.7	4	3	4	11	0.7	10	8	9	27	1.1
-5 / -1	7	5	4	16	-3.5	4	5	2	11	-3.5	7	8	9	24	-3.6
-10 / -6	9	11	8	28	-8.3	7	9	9	25	-8.4	12	16	14	42	-8.1
-15 / -11	8	8	10	26	-12.4	8	7	7	23	-12.4	9	16	14	39	-12.5
-20 / -16	17	16	17	50	-17.1	15	18	17	50	-17.1	19	29	27	75	-17.2
-25 / -21	22	24	24	70	-22.3	20	19	19	58	-22.2	29	37	37	103	-22.3
-30 / -26	32	32	30	95	-27.5	29	27	28	84	-27.6	41	46	46	133	-27.5
-35 / -31	27	24	25	76	-31.9	27	31	27	85	-31.9	29	29	30	89	-31.9
-40 / -36	46	48	51	145	-35.3	36	39	36	112	-35.2	42	28	30	101	-35.3
-45 / -41	46	40	39	125	-42.0	39	34	41	114	-40.0	27	14	15	56	-40.0
-50 / -46	23	29	28	80	-45.0	34	27	32	93	-45.0	16	4	8	28	
-55 / -51	0	0	1	1		0	1	1	2		0		0	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.

SHEPHERD BAY CN

WMO No. 719110

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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74												0	0	0	
65 / 69											0	1	0	1	55.8
60 / 64											0	2	2	4	51.8
55 / 59											0	7	6	12	49.7
50 / 54											3	12	11	27	46.6
45 / 49											10	16	15	42	43.1
40 / 44											13	20	18	50	39.7
35 / 39		0	0	0	33.0	0	1	1	2	34.6	39	56	51	146	35.7
30 / 34	0	1	1	2	30.8	15	30	30	75	31.3	94	84	90	267	31.5
25 / 29	1	3	3	8	25.5	23	36	34	93	26.0	44	28	30	102	26.4
20 / 24	3	5	4	13	21.8	21	33	32	86	21.6	19	10	11	39	21.8
15 / 19	10	14	13	37	16.6	41	48	46	135	16.8	12	5	6	22	17.7
10 / 14	15	19	21	54	11.6	41	39	37	117	11.5	3	1	1	5	11.9
5 / 9	17	23	22	62	6.1	37	32	34	103	6.4	2	0	0	2	6.9
0 / 4	15	27	27	69	1.0	27	20	20	66	1.3	0		0	0	1.8
-5 / -1	14	23	25	62	-3.6	14	6	8	27	-3.5					
-10 / -6	25	38	33	96	-8.0	16	4	4	25	-7.5					
-15 / -11	20	23	27	71	-12.4	7	1	1	9	-12.0					
-20 / -16	37	29	29	96	-17.0	4	0	0	4	-16.4					
-25 / -21	33	19	21	72	-22.1	1			1	-20.9					
-30 / -26	26	10	10	46	-27.3	0			0	-26.0					
-35 / -31	10	2	3	16	-31.7										
-40 / -36	9	2	1	13	-35.6										
-45 / -41	3	0	0	3	-40.0										
-50 / -46	1			1											
-55 / -51															

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 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		
110 / 114	0		0	0											
105 / 109	0		0	0											
100 / 104	0		0	0											
95 / 99	0		0	0											
90 / 94	0		0	0											
85 / 89	0		0	0											
80 / 84	0		0	0											
75 / 79	0		0	0	60.0		0		0	64.5					
70 / 74	0	2	1	3	58.4		0	0	0	59.6					
65 / 69	0	7	4	11	56.0	0	2	1	3	57.5			0	0	53.0
60 / 64	2	17	15	35	53.9	0	6	4	10	55.6			0	0	
55 / 59	9	38	31	77	50.6	2	15	13	31	51.1		0	0	0	48.6
50 / 54	27	45	38	110	47.5	12	34	28	74	47.3	1	4	3	9	47.7
45 / 49	52	62	60	174	43.6	31	55	52	138	43.5	4	14	11	28	43.7
40 / 44	55	42	51	148	40.1	45	50	51	146	39.7	9	17	15	42	39.9
35 / 39	82	33	40	155	36.8	92	63	70	224	36.1	32	50	43	124	35.6
30 / 34	21	3	7	31	32.7	62	21	26	110	31.8	74	67	71	212	31.0
25 / 29						5	2	2	9	27.2	71	54	60	184	26.2
20 / 24											28	24	23	76	21.3
15 / 19											19	9	12	40	17.0
10 / 14											2	2	2	6	12.7
5 / 9											0		0	0	6.8
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															

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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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64															
55 / 59							0		0				0	0	
50 / 54			0	0	52.0		0		0				0	0	
45 / 49			0	0		0	0		0	32.0			0	0	
40 / 44		0	0	0	38.7	0	0		0				0	0	
35 / 39	1	4	3	9	35.8	0	0	0	0	35.0			0	0	
30 / 34	13	15	13	41	31.1	0	0	0	0				0	0	
25 / 29	25	31	26	83	25.9	1	1	1	3	25.0	1	0	0	1	24.0
20 / 24	32	26	26	84	21.6	2	2	3	7	21.7	0	1	0	1	21.7
15 / 19	36	42	42	120	16.8	7	7	9	23	16.9	1	1	1	3	17.1
10 / 14	42	42	43	127	11.6	12	10	9	30	11.7	5	3	2	10	11.4
5 / 9	31	29	32	93	6.4	13	16	14	43	6.1	3	5	5	14	6.0
0 / 4	28	26	25	78	1.2	21	20	22	63	0.9	6	7	6	19	0.9
-5 / -1	13	11	13	36	-3.4	16	17	15	48	-3.6	6	7	7	21	-3.5
-10 / -6	12	10	11	32	-7.9	31	29	30	90	-8.1	17	15	15	47	-8.2
-15 / -11	6	5	6	17	-12.4	21	22	27	70	-12.4	13	13	15	41	-12.5
-20 / -16	6	7	4	17	-16.7	32	34	29	95	-16.9	25	21	21	68	-17.1
-25 / -21	2	2	2	6	-21.7	31	31	30	91	-22.1	31	33	34	99	-22.2
-30 / -26	1	0	0	1	-26.7	25	25	25	74	-27.4	39	41	41	121	-27.4
-35 / -31						12	10	9	30	-31.8	31	31	28	90	-31.7
-40 / -36						12	12	10	33	-35.5	35	36	38	110	-35.3
-45 / -41						4	6	6	16		24	23	22	70	-40.0
-50 / -46						1	1	1	3		9	10	11	30	
-55 / -51											0	0	0	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.

SHEPHERD BAY CN

WMO No. 719110

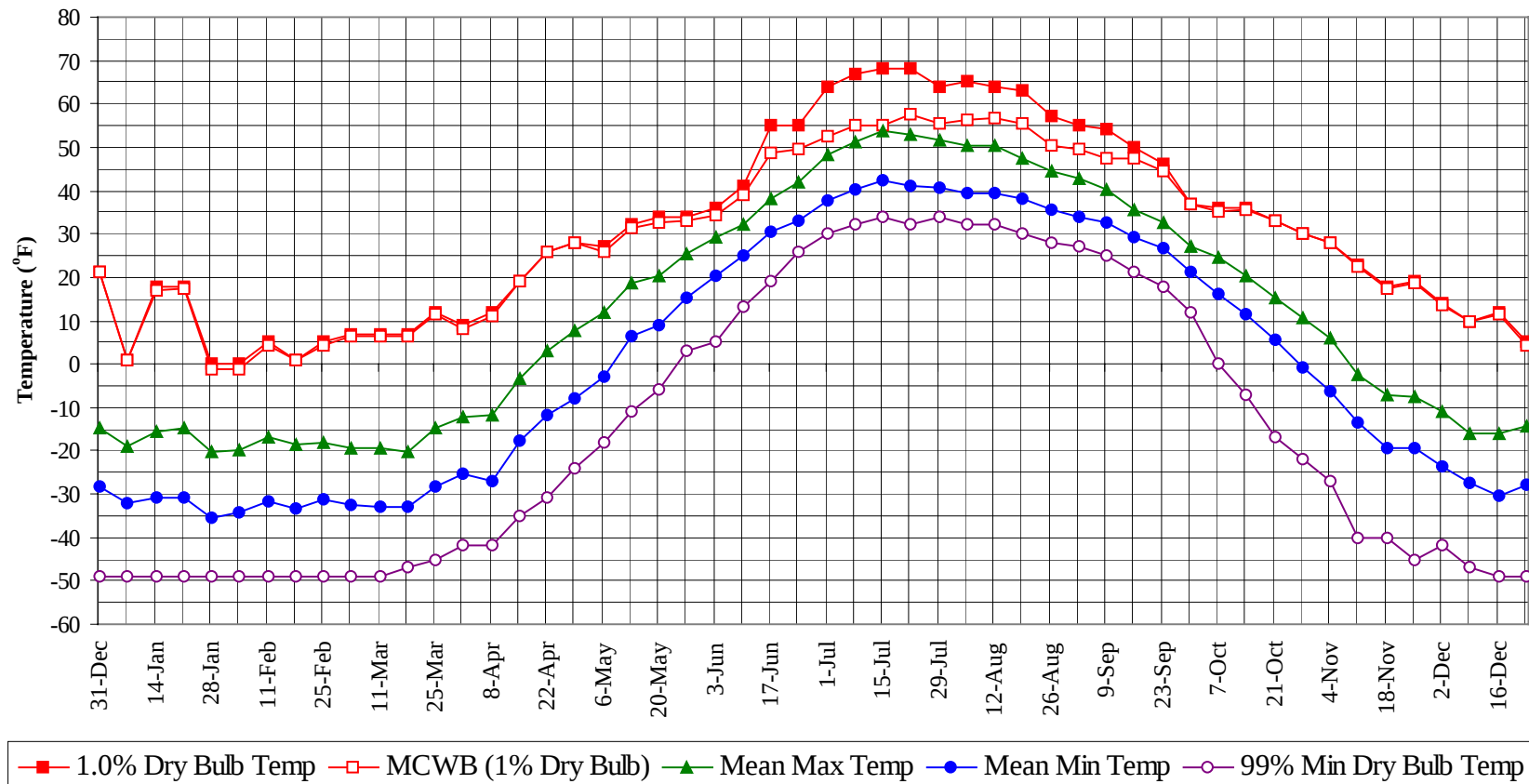
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

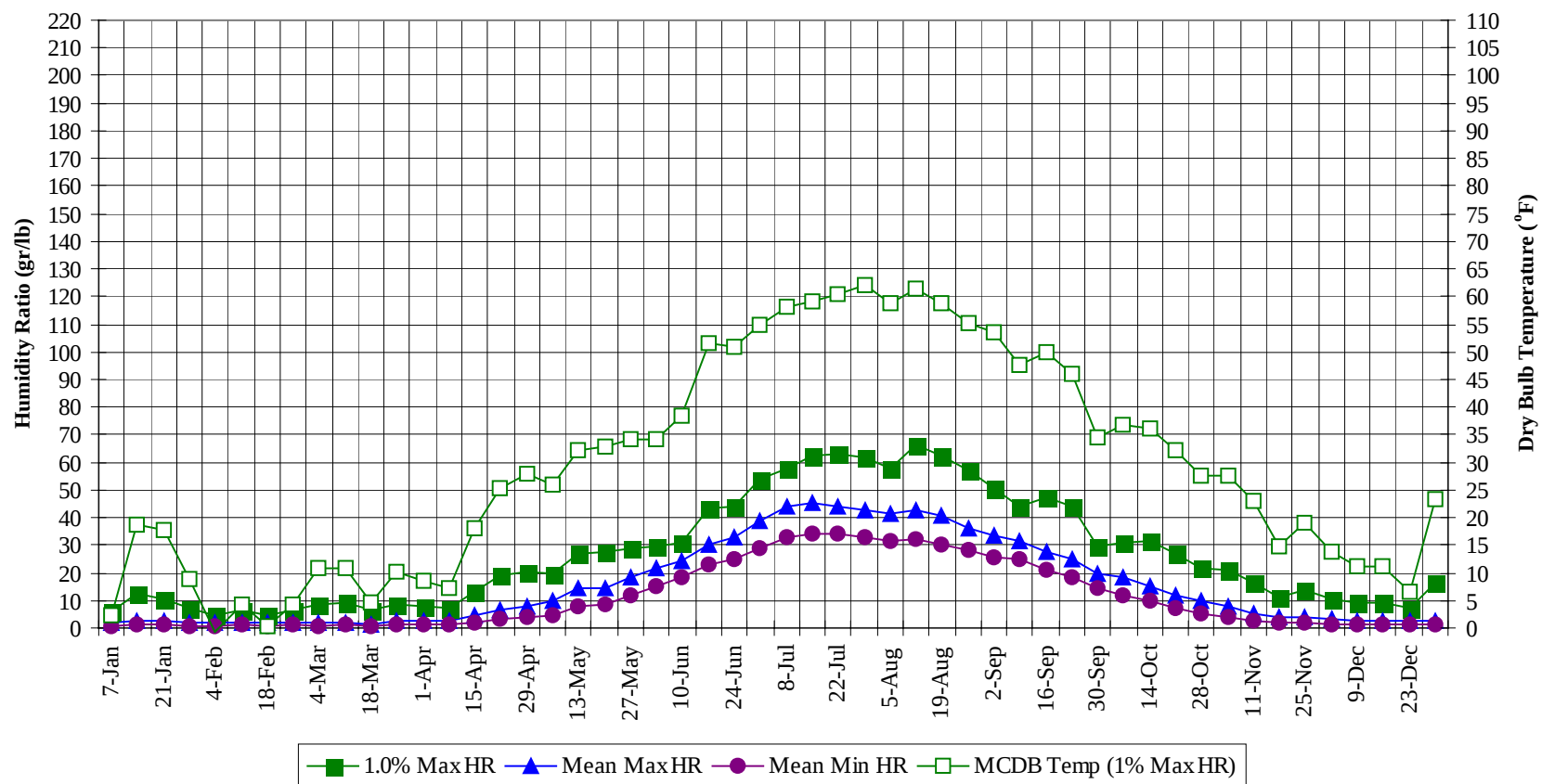
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
110 / 114	0		0	0	
105 / 109	0		0	0	
100 / 104	0		0	0	
95 / 99	0		0	0	
90 / 94	0		0	0	
85 / 89	0		0	0	
80 / 84	0		0	0	
75 / 79	0	0	0	0	63.0
70 / 74	0	2	1	3	58.6
65 / 69	0	8	5	14	56.3
60 / 64	2	24	21	47	54.0
55 / 59	12	60	49	120	50.6
50 / 54	42	94	78	214	47.3
45 / 49	94	146	135	375	43.5
40 / 44	118	128	131	377	39.9
35 / 39	240	207	205	652	36.1
30 / 34	278	222	234	734	31.4
25 / 29	171	157	157	485	26.1
20 / 24	108	102	101	311	21.6
15 / 19	128	131	132	391	16.9
10 / 14	127	121	123	371	11.6
5 / 9	116	122	123	361	6.2
0 / 4	119	119	120	358	1.1
-5 / -1	80	82	85	247	-3.6
-10 / -6	130	133	126	389	-8.1
-15 / -11	95	97	110	302	-12.4
-20 / -16	158	154	149	461	-17.0
-25 / -21	172	164	169	506	-22.2
-30 / -26	193	181	181	556	-27.5
-35 / -31	134	123	123	380	-31.9
-40 / -36	178	162	165	505	-35.3
-45 / -41	140	112	120	373	-40.2
-50 / -46	83	67	76	226	-45.0
-55 / -51	1	1	2	4	

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

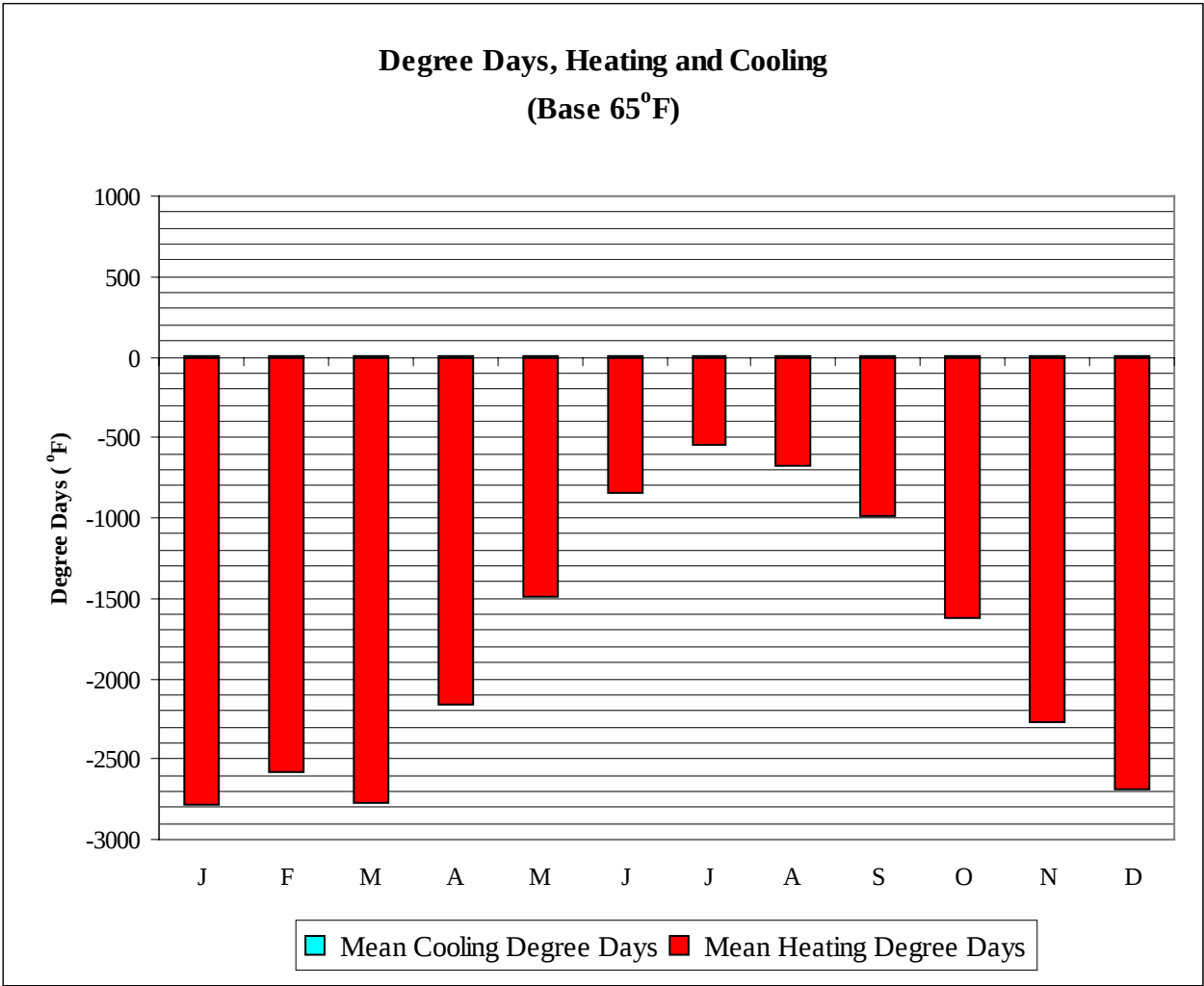


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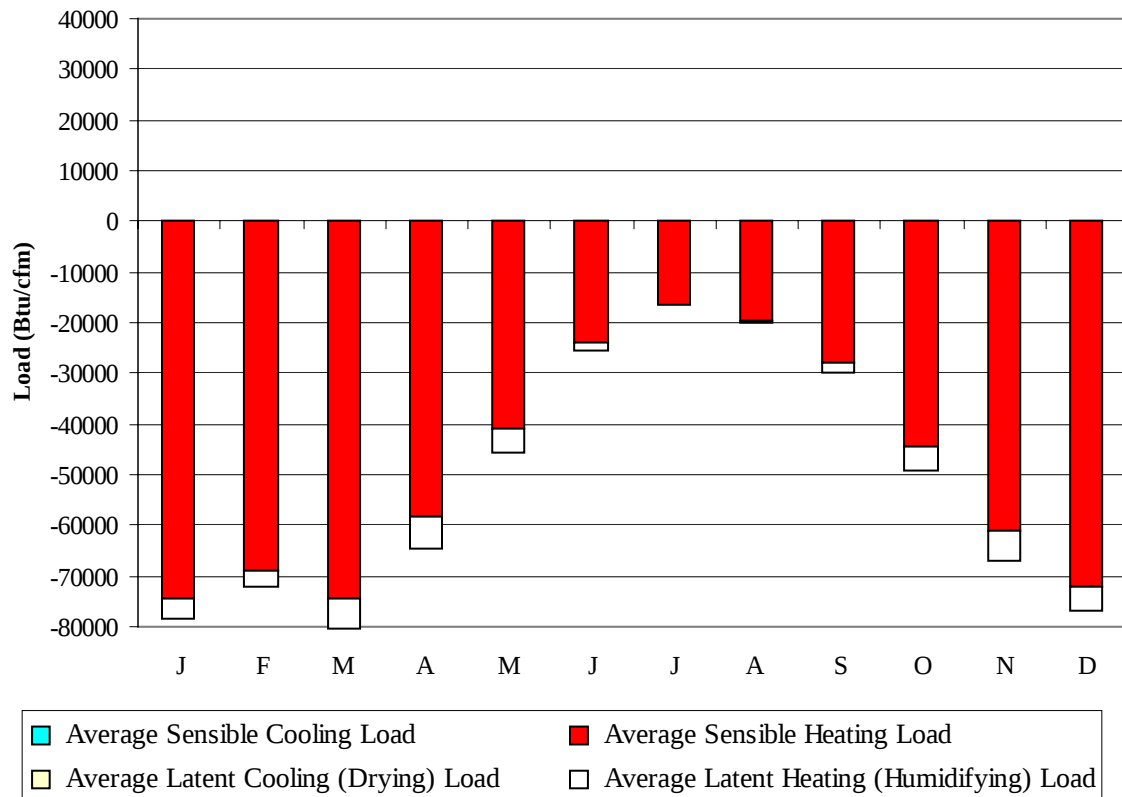
Long Term Dry Bulb Temperature and Humidity Summary

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	1.0	1.0	-19.1	-32.2	-49.0	5.6	2.2	1.8	1.0
14-Jan	18.0	17.1	-15.8	-30.9	-49.0	12.6	18.7	2.5	1.1
21-Jan	18.0	17.3	-14.9	-30.8	-49.0	10.5	17.7	2.8	1.3
28-Jan	0.0	-1.0	-20.1	-35.4	-49.0	7.0	8.9	1.8	0.8
4-Feb	0.0	-1.0	-19.9	-34.3	-49.0	4.9	-0.6	1.8	1.0
11-Feb	5.0	4.4	-16.9	-31.7	-49.0	6.3	4.3	2.1	1.1
18-Feb	1.0	0.9	-18.4	-33.2	-49.0	4.9	0.2	1.8	0.9
25-Feb	5.0	4.1	-18.0	-31.0	-49.0	6.3	4.3	2.0	1.0
4-Mar	7.0	6.6	-19.4	-32.6	-49.0	8.4	10.9	1.8	1.0
11-Mar	7.0	6.4	-19.6	-32.8	-49.0	9.1	10.9	1.9	1.0
18-Mar	7.0	6.2	-20.3	-32.8	-47.0	6.3	4.6	1.6	0.9
25-Mar	12.0	11.4	-14.7	-28.3	-45.0	8.4	10.2	2.5	1.2
1-Apr	9.0	8.0	-12.4	-25.5	-42.0	7.7	8.6	2.7	1.3
8-Apr	12.0	11.0	-11.8	-27.2	-42.0	7.0	7.3	2.6	1.1
15-Apr	19.0	19.0	-3.4	-17.8	-35.0	13.3	18.1	4.5	2.0
22-Apr	26.0	26.0	3.1	-11.8	-31.0	18.9	25.3	6.5	3.1
29-Apr	28.0	27.9	7.8	-7.8	-24.0	20.3	27.9	8.2	3.8
6-May	27.0	26.0	11.9	-3.1	-18.0	19.6	26.0	9.7	4.7
13-May	32.0	31.5	18.8	6.3	-11.0	26.6	32.1	14.2	8.0
20-May	34.0	32.8	20.3	9.1	-6.0	27.3	32.8	14.7	8.6
27-May	34.0	32.9	25.3	15.4	3.0	28.7	34.1	18.3	11.8
3-Jun	36.0	34.4	29.1	20.6	5.0	29.4	34.3	21.8	15.1
10-Jun	41.0	39.2	32.4	24.8	13.0	30.8	38.4	24.6	18.3
17-Jun	55.0	48.6	38.0	30.5	19.0	43.4	51.6	30.1	23.2
24-Jun	55.0	49.6	41.8	33.2	26.0	44.1	50.8	32.6	25.1
1-Jul	64.0	52.4	48.1	37.6	30.0	53.9	54.7	38.9	29.2
8-Jul	67.0	55.0	51.4	40.4	32.0	58.1	58.0	43.7	32.9
15-Jul	68.0	54.9	53.7	42.2	34.0	62.3	59.0	45.3	33.9
22-Jul	68.0	57.8	52.9	41.2	32.0	63.0	60.4	44.0	33.9
29-Jul	64.0	55.4	51.8	40.7	34.0	61.6	62.0	43.0	32.7
5-Aug	65.0	56.3	50.3	39.4	32.0	58.1	58.6	41.4	31.5
12-Aug	64.0	56.8	50.6	39.4	32.0	66.5	61.5	42.9	32.5
19-Aug	63.0	55.4	47.5	38.0	30.0	62.3	58.8	40.4	30.4
26-Aug	57.0	50.4	44.6	35.5	28.0	57.4	55.2	35.9	27.9
2-Sep	55.0	49.7	42.6	33.9	27.0	50.4	53.4	33.2	25.8
9-Sep	54.0	47.5	40.2	32.7	25.0	44.1	47.7	31.7	24.7
16-Sep	50.0	47.4	35.5	29.3	21.0	47.6	49.8	27.8	21.1
23-Sep	46.0	44.5	32.7	26.5	18.0	44.1	46.0	25.0	18.3
30-Sep	37.0	36.8	27.3	21.1	12.0	29.4	34.5	19.9	14.2
7-Oct	36.0	35.2	24.5	16.2	0.0	30.8	36.9	18.1	11.9
14-Oct	36.0	35.5	20.4	11.5	-7.0	31.5	36.2	15.0	9.8
21-Oct	33.0	33.0	15.5	5.5	-17.0	26.6	32.3	12.1	7.3
28-Oct	30.0	30.0	10.5	-0.8	-22.0	21.7	27.4	9.7	5.4
4-Nov	28.0	28.0	5.9	-6.2	-27.0	21.0	27.5	7.9	4.2
11-Nov	23.0	22.5	-2.4	-13.6	-40.0	16.1	23.0	5.0	2.8
18-Nov	18.0	17.2	-7.1	-19.2	-40.0	11.2	14.8	4.0	2.0
25-Nov	19.0	18.8	-7.4	-19.6	-45.0	14.0	19.1	4.1	2.2
2-Dec	14.0	13.7	-10.8	-23.5	-42.0	10.5	13.8	3.1	1.5
9-Dec	10.0	9.8	-15.9	-27.4	-47.0	9.1	11.1	2.3	1.3
16-Dec	12.0	11.6	-16.0	-30.4	-49.0	9.1	11.3	2.3	1.1
23-Dec	5.0	4.5	-14.1	-28.1	-49.0	7.0	6.6	2.5	1.2
31-Dec	21.0	21.0	-14.7	-28.2	-49.0	16.1	23.3	2.7	1.2



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	2788
FEB	0	2581
MAR	0	2777
APR	0	2157
MAY	0	1489
JUN	0	846
JUL	2	547
AUG	0	672
SEP	0	989
OCT	0	1621
NOV	0	2266
DEC	0	2691
ANN	2	21424

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	0	-74491	0	-3778
FEB	0	-68985	0	-3250
MAR	0	-74396	0	-5815
APR	0	-58257	0	-6465
MAY	0	-40958	0	-4672
JUN	0	-24100	0	-1370
JUL	9	-16426	1	-130
AUG	0	-19683	0	-446
SEP	0	-27918	0	-1946
OCT	0	-44476	0	-4877
NOV	0	-61053	0	-6058
DEC	0	-72044	0	-4771
ANN	9	-582787	1	-43578

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

No Solar Radiation
Data Available

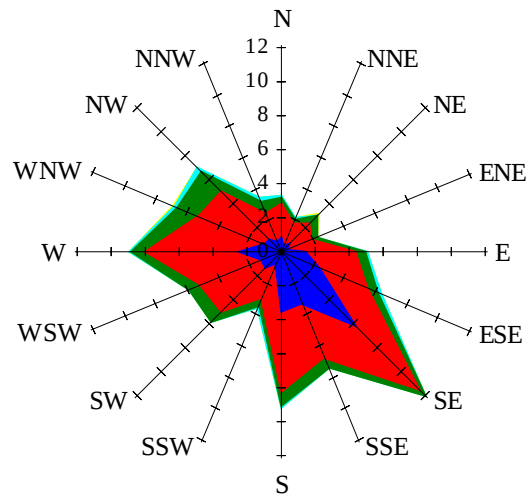


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

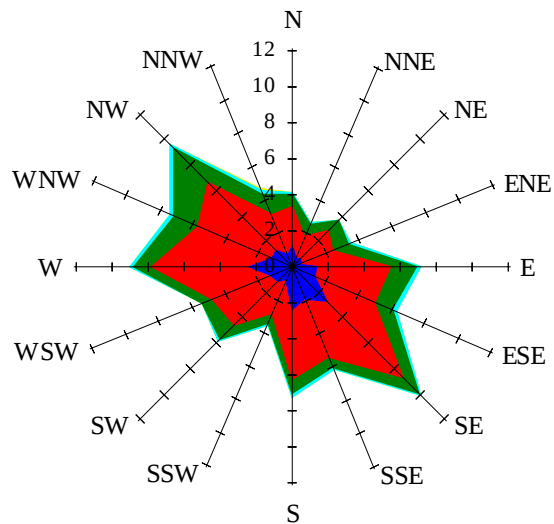
Labels of Percent Frequency on North Axis



Percent Calm = 8.49

Wind Summary - March, April, and May

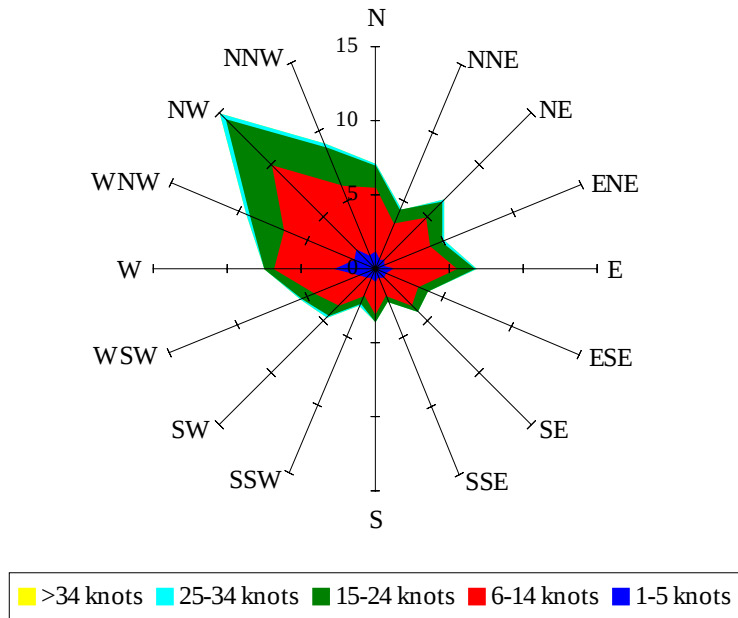
Labels of Percent Frequency on North Axis



Percent Calm = 4.89

Wind Summary - June, July, and August

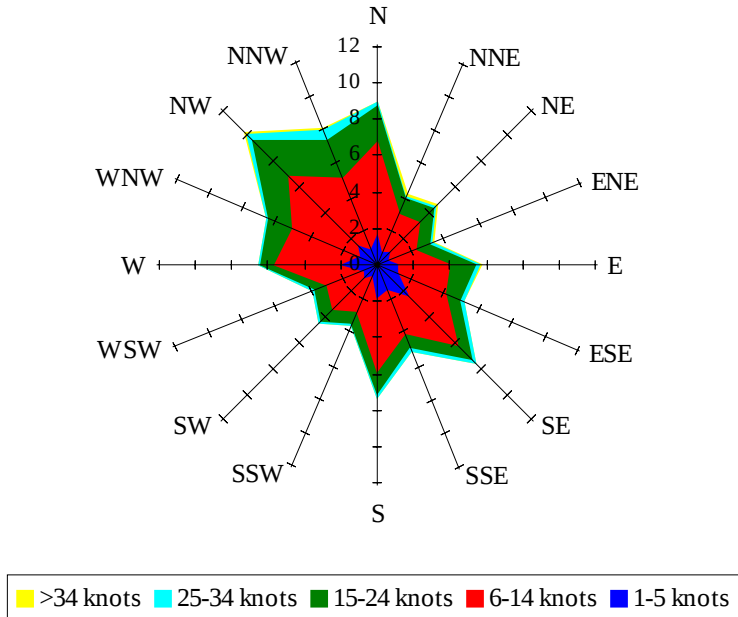
Labels of Percent Frequency on North Axis



Percent Calm = 3.18

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 5.62