

LYNN LAKE, CA	
Latitude = 56.86 N	Station ID = ICAO_CYYL
Longitude = 101.08 W	Elevation = 1170 Feet
Period of Record = 1988 To 2017	Average Pressure = 28.68 inches Hg

Design Criteria Data

	Mean Coincident (Average) Values				
Dry Bulb Temperature (T)	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	88	66	66	10.8	SSW
0.4% Occurrence	82	62	58	10	W
1.0% Occurrence	79	61	56	9.3	W
2.0% Occurrence	75	59	54	9.1	S
Mean Daily Range	18	-	-	-	WNW
97.5% Occurrence	-27	-27	1	6.5	WNW
99.0% Occurrence	-33	-33	1	6.3	WNW
99.6% Occurrence	-37	-37	1	5.5	WNW
Median of Extreme Lows	-44	-44	0	3.6	NW

	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T _{wb})					
Median of Extreme Highs	69	80	91	8.6	S
0.4% Occurrence	66	77	80	8.3	S
1.0% Occurrence	63	73	72	7.8	S
2.0% Occurrence	62	72	70	7.8	S

	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)					
Median of Extreme Highs	98	71	0.62	5.4	SE
0.4% Occurrence	85	67	0.54	7.1	S
1.0% Occurrence	79	65	0.5	6.8	***
2.0% Occurrence	74	66	0.47	6.7	S

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	7	63	4	23

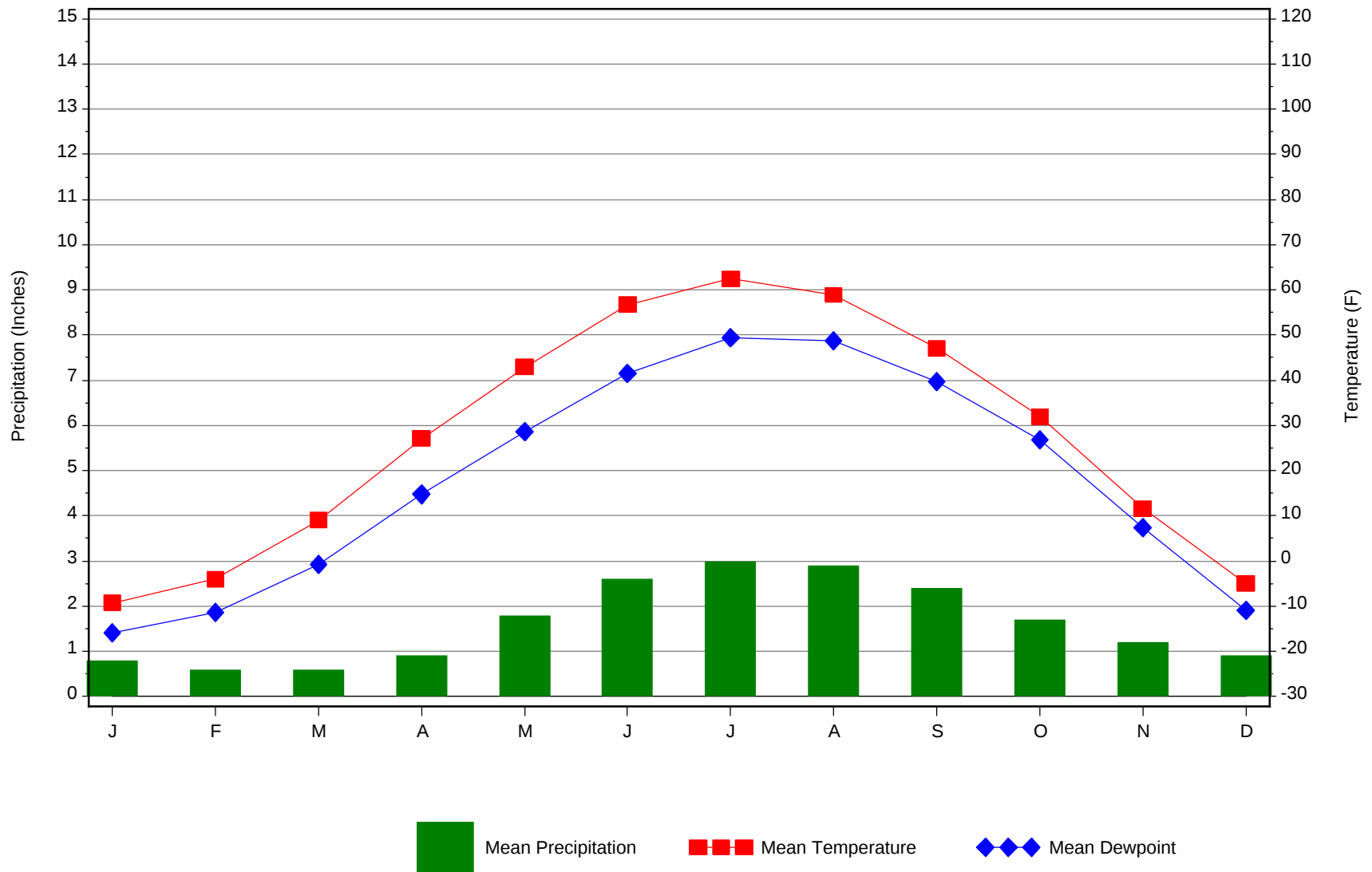
Other Site Data

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
2	N/A	N/A	0.0 + 0.1
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 (#)
30.1	N/A	N/A	50

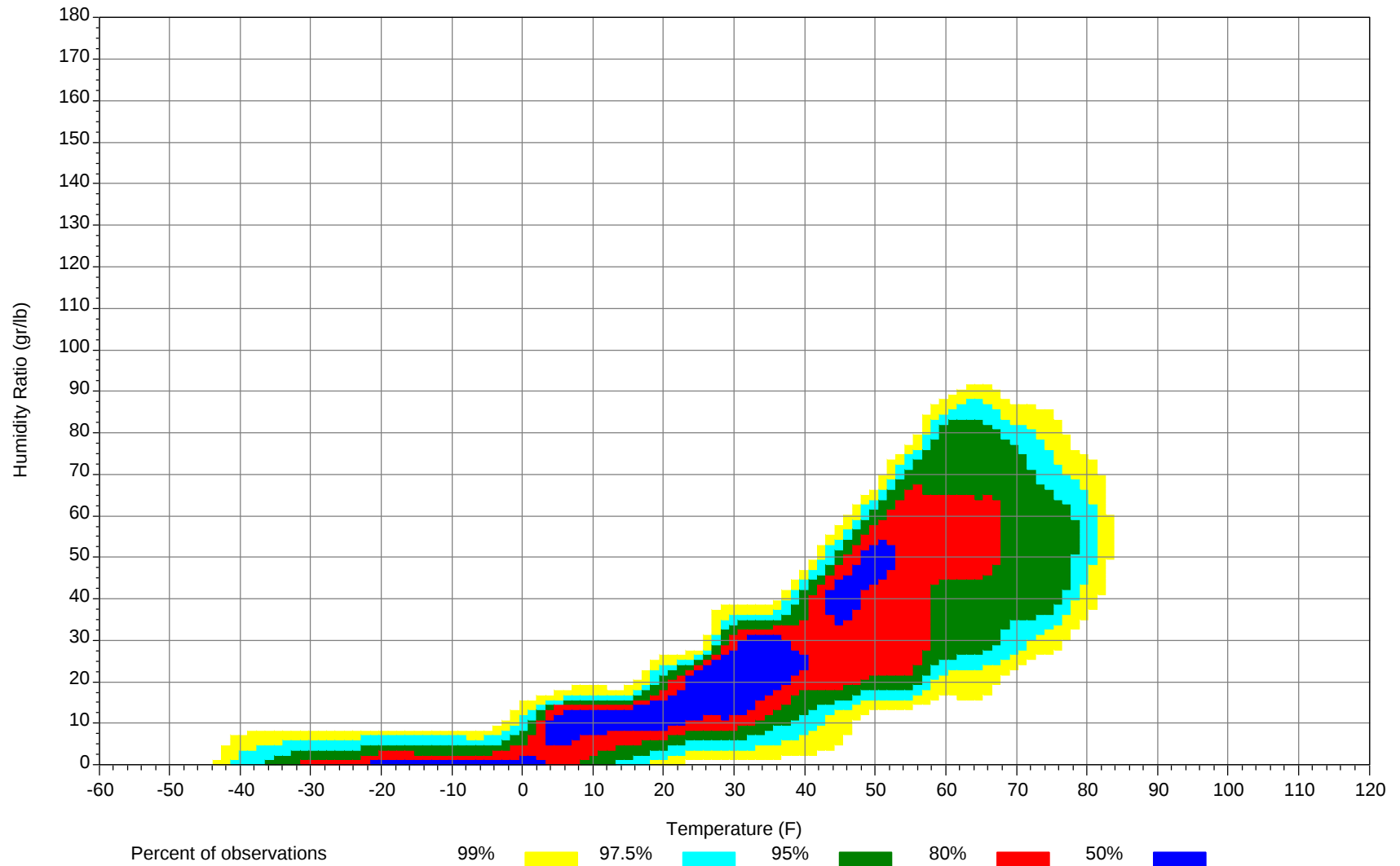
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



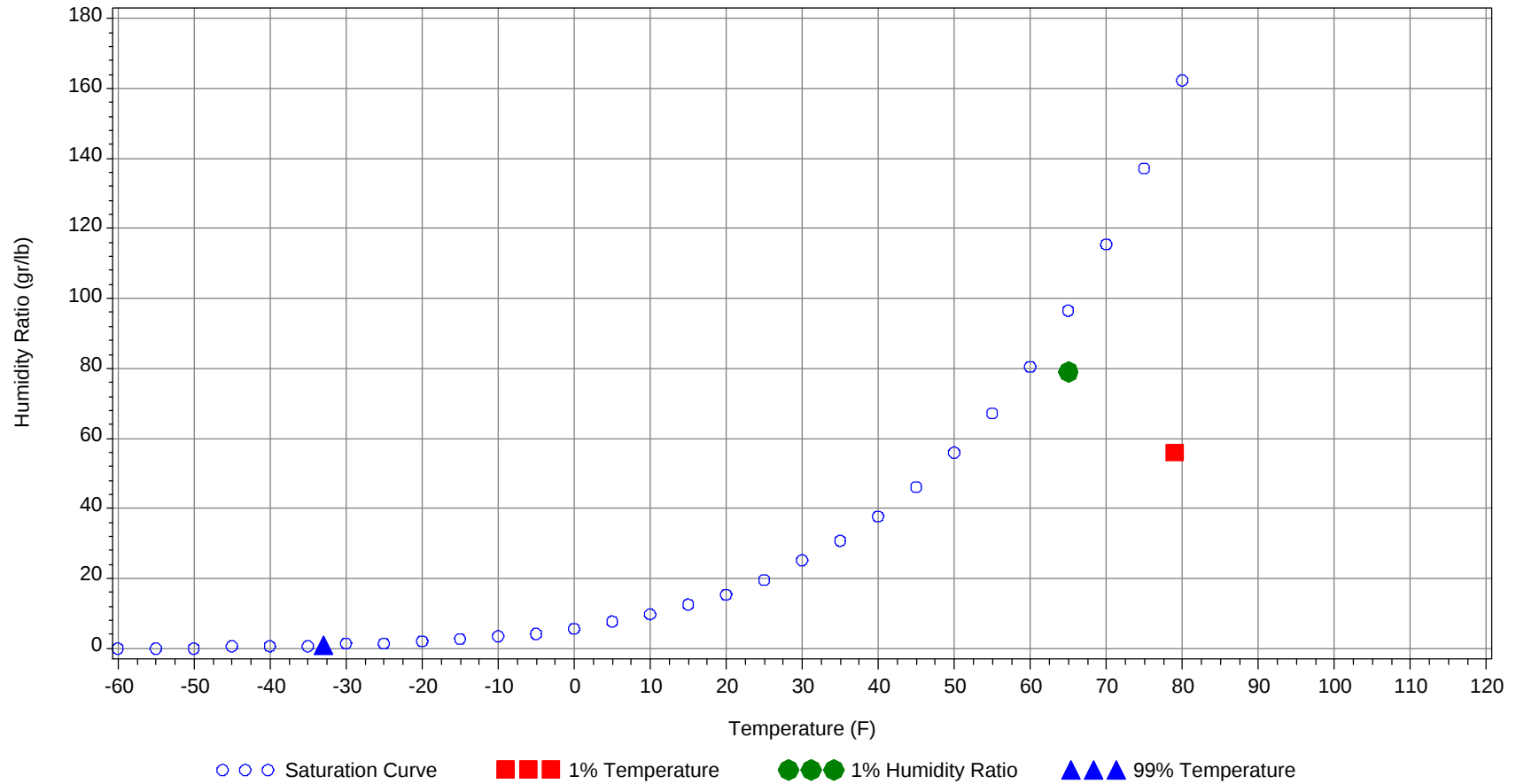
Average Annual Climate



Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values



	(° F) / (gr/lb)	MCDB (° F)	MCWB (° F)	MCDP (° F)	MCHR (gr/lb)	Enthalpy (btu/lb)
1.0% Dry Bulb	79.0		61		56.0	27.7
99.0% Dry Bulb	-33.0				1.0	-7.8
1.0% Humidity Ratio	79.0	65.0	61.3	59.0		28.0

Dry-Bulb Temperature Hours For An Average Year

Temperature Range (°F)	January					February					March				
	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
95/ 99															
90/ 94															
85/ 89															
80/ 84															
75/ 79															
70/ 74															
65/ 69															
60/ 64															
55/ 59												0		0	45
50/ 54												1	0	1	41.2
45/ 49		0	0	0	39.6		0		0	38		4	2	6	37.8
40/ 44	0	0	0	0	36.5		0	0	0	35.3		6	5	11	34.9
35/ 39	0	1	0	1	35	0	1	1	2	32.7	2	14	11	27	32.3
30/ 34	1	1	1	3	29.9	2	4	4	10	29.4	10	16	17	43	28.7
25/ 29	4	5	4	13	25.5	4	7	6	17	25.1	14	23	24	61	23.7
20/ 24	4	5	5	14	21.1	4	6	7	17	20.6	16	20	22	58	19.9
15/ 19	10	9	7	26	16.7	11	15	15	41	16.2	24	32	31	87	15.5
10/ 14	10	13	14	37	11.4	14	18	17	49	11	25	32	29	86	10.4
5/ 9	19	21	20	60	6	19	24	23	66	5.8	26	27	26	79	5.4
0/ 4	23	26	24	73	0.7	22	31	28	81	0.5	28	24	25	77	0.3
-5/ -1	16	22	19	57	-3.8	14	21	20	55	-3.9	16	13	15	44	-4
-10/ -6	27	31	31	89	-8.1	23	30	28	81	-8.2	19	15	16	50	-8.3
-15/-11	19	25	21	65	-12.8	20	21	23	64	-12.9	16	8	11	35	-12.8
-20/-16	25	28	31	84	-17.2	26	20	23	69	-17.1	22	7	9	38	-17
-25/-21	27	26	31	84	-22.4	27	13	15	55	-22.3	17	3	4	24	-22.2
-30/-26	27	19	20	66	-27.5	18	7	8	33	-27.4	8	1	2	11	-27.5
-35/-31	16	8	11	35	-32	10	3	4	17	-31.9	3	0	0	3	-31.9
-40/-36	13	6	7	26	-36.3	8	1	1	10	-36.5	2	0	0	2	-36.3
-45/-41	5	1	1	7	-41.4	2	0	0	2	-41.6	0		0	0	-41
-50/-46	1	0	0	1	-46.5	0	0		0	-46.2	0			0	-46.8
-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.

Dry-Bulb Temperature Hours For An Average Year

Temperature Range (°F)	April					May					June				
	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
95/ 99															
90/ 94												0	0	0	67.3
85/ 89												1	0	1	65.4
80/ 84							1	0	1	59.4		7	4	11	60.4
75/ 79							6	3	9	55.9	0	21	13	34	58.5
70/ 74		0	0	0	53.3	0	9	5	14	53.4	1	36	24	61	56.1
65/ 69		1	1	2	51.2	0	11	7	18	51.2	4	34	27	65	54.3
60/ 64		3	2	5	47.1	2	22	16	40	49.1	21	40	45	106	52.8
55/ 59	0	6	4	10	44.3	7	26	24	57	46.8	40	37	46	123	50.2
50/ 54	1	12	9	22	41.2	14	33	32	79	43.5	60	29	36	125	47.1
45/ 49	3	23	17	43	38	29	37	38	104	40.4	53	19	27	99	43.3
40/ 44	5	22	20	47	35	26	27	32	85	37.3	28	9	12	49	39.5
35/ 39	20	36	36	92	32.3	52	35	39	126	33.5	25	4	6	35	35.6
30/ 34	38	36	42	116	28.6	54	25	30	109	29.5	7	1	1	9	30.9
25/ 29	42	32	37	111	23.7	34	11	13	58	24.5	2	0	0	2	26.4
20/ 24	26	20	22	68	19.5	13	3	5	21	19.9					
15/ 19	29	20	20	69	15.4	10	1	2	13	16.1					
10/ 14	21	13	15	49	10.5	5	0	0	5	11.3					
5/ 9	18	8	8	34	5.6	2		0	2	6.4					
0/ 4	14	4	5	23	0.5	0			0	1.7					
-5/ -1	8	2	3	13	-3.9	0			0	-4					
-10/ -6	9	1	1	11	-8.1	0			0	-6					
-15/-11	5	0	1	6	-12.5										
-20/-16	2	0	0	2	-16.9										
-25/-21	1			1	-21.2										
-30/-26	0			0	-26										
-35/-31															
-40/-36															
-45/-41															
-50/-46															
-55/-51															

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Dry-Bulb Temperature Hours For An Average Year

	July					August					September				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
95/ 99							0	0	0	70.2					
90/ 94		1	0	1	66.4		1	1	2	68.8					
85/ 89		3	2	5	65.7		1	1	2	66.5		0	0	0	65.8
80/ 84	0	16	8	24	63.3		9	4	13	63.9		1	0	1	62.5
75/ 79	1	39	23	63	60.8	0	24	14	38	61.8		3	1	4	61
70/ 74	5	50	35	90	58.9	2	35	23	60	59.4		9	4	13	58.3
65/ 69	12	40	36	88	57.7	5	33	26	64	57.8	0	12	6	18	56.2
60/ 64	47	47	61	155	56.2	30	55	50	135	56.1	3	22	15	40	54.2
55/ 59	79	33	50	162	53.2	60	49	59	168	53.1	11	37	29	77	51.1
50/ 54	65	13	24	102	49.5	76	31	46	153	49.5	38	49	47	134	48.1
45/ 49	30	4	7	41	45.1	50	8	19	77	45.3	51	44	49	144	43.8
40/ 44	8	0	1	9	41.1	17	1	5	23	41.2	41	30	36	107	39.8
35/ 39	1	0		1	37.2	8	0	1	9	37.3	55	24	35	114	35.9
30/ 34	0			0	34	0			0	34	31	8	16	55	30.9
25/ 29											9	1	3	13	26.1
20/ 24											1		0	1	22.2
15/ 19											0			0	17.2
10/ 14											0			0	13.5
5/ 9															
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

Temperature Range (°F)	October					November					December				
	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
95/ 99															
90/ 94															
85/ 89															
80/ 84															
75/ 79															
70/ 74		0	0	0	57										
65/ 69		0	0	0	54.3										
60/ 64		3	1	4	50.6										
55/ 59		6	2	8	47.4										
50/ 54	1	11	7	19	45.4		0		0	44.3					
45/ 49	8	21	16	45	42.4		1	0	1	40.8					
40/ 44	14	23	19	56	39.2	0	2	1	3	37.5					
35/ 39	37	45	43	125	35.2	2	5	3	10	33.9	0	0	0	0	33.7
30/ 34	73	63	69	205	30.6	11	17	14	42	30.3	2	2	2	6	29.8
25/ 29	55	40	47	142	25.5	30	32	31	93	25.7	4	5	5	14	25.4
20/ 24	27	19	23	69	21	24	25	26	75	21.2	7	9	10	26	21.1
15/ 19	19	12	14	45	16.7	31	34	32	97	16.7	19	19	18	56	16.8
10/ 14	11	4	6	21	11.8	29	34	32	95	11.4	20	22	20	62	11.5
5/ 9	2	1	1	4	6.5	33	31	31	95	6.2	24	27	25	76	6.2
0/ 4	1	0	1	2	1.2	28	25	26	79	1	23	28	26	77	0.9
-5/ -1	0		0	0	-3.1	14	12	12	38	-3.6	18	20	18	56	-3.7
-10/ -6						15	11	16	42	-7.8	24	27	25	76	-8.1
-15/-11						7	5	7	19	-12.8	17	19	21	57	-12.8
-20/-16						9	4	5	18	-16.9	25	24	25	74	-17.1
-25/-21						6	2	2	10	-22	21	18	21	60	-22.3
-30/-26						2	0	0	2	-26.5	19	15	17	51	-27.6
-35/-31						0	0		0	-32.3	11	7	9	27	-31.9
-40/-36						0	0		0	-36.7	8	3	6	17	-36.4
-45/-41											5	2	1	8	-41.6
-50/-46											1	0	0	1	-46.5
-55/-51											0	0		0	-50.7

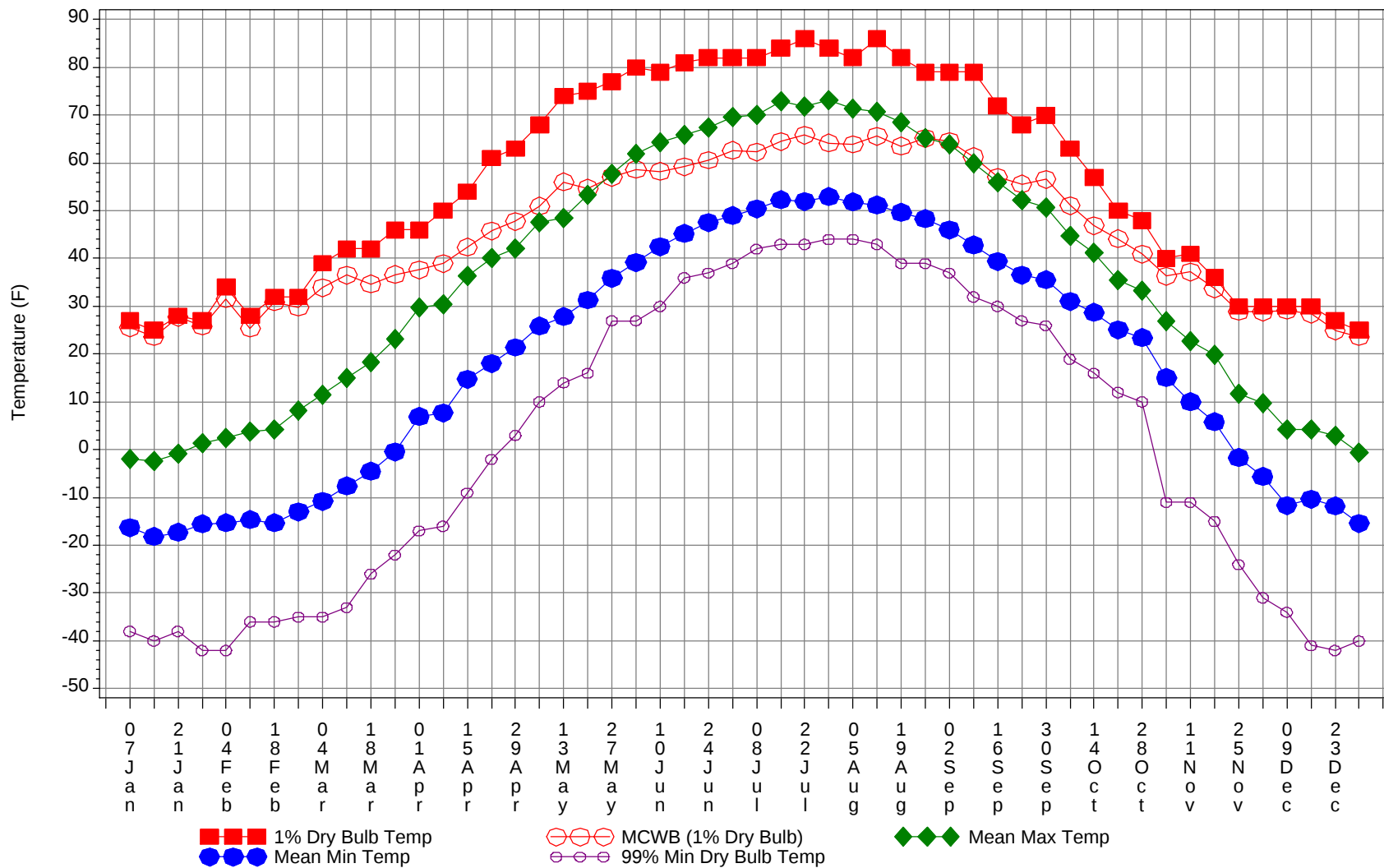
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

Dry-Bulb Temperature Hours For An Average Year

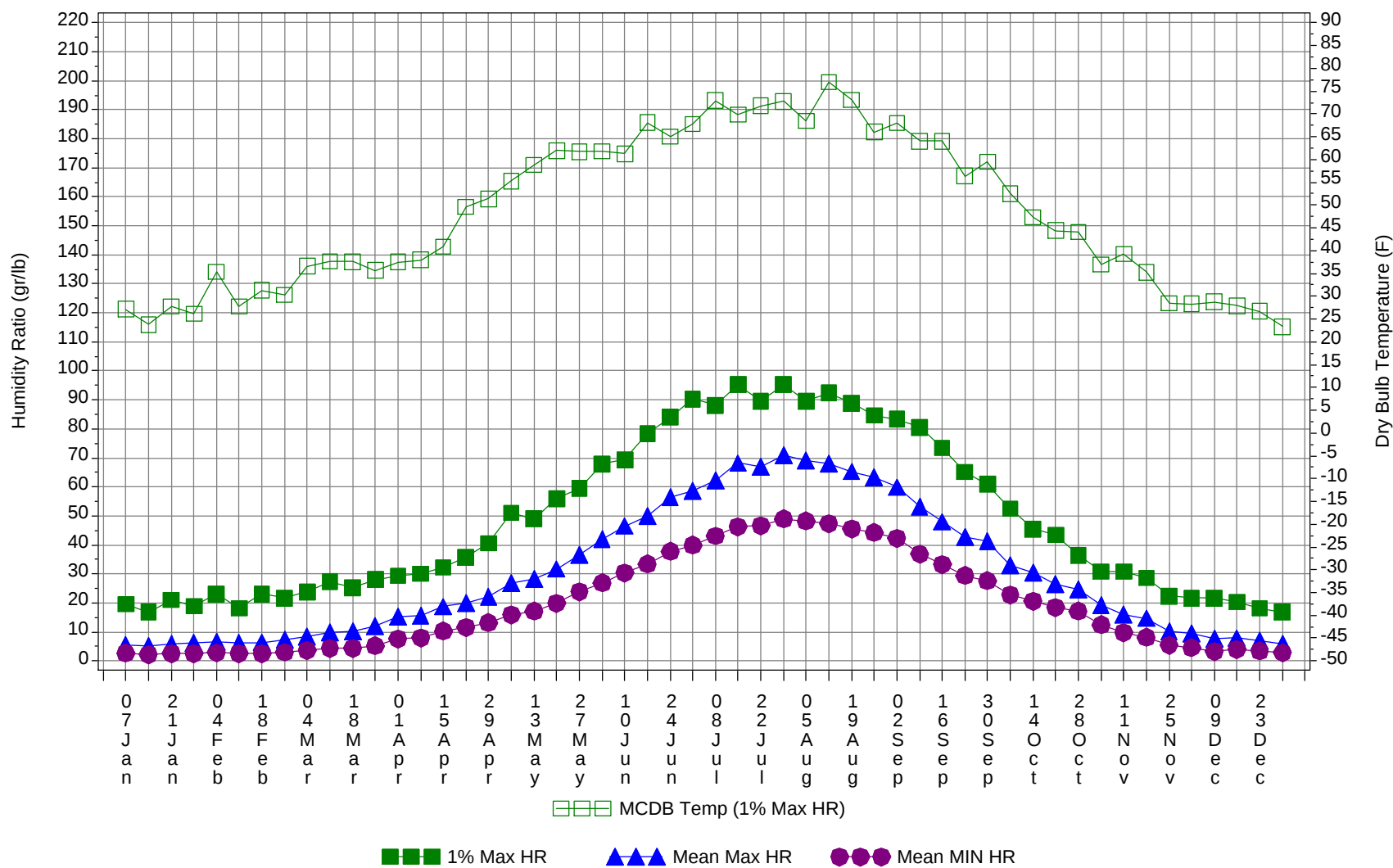
	Annual				
Temperature Range (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)
95/ 99		0	0	0	70.2
90/ 94		1	1	2	67.9
85/ 89		6	3	9	65.9
80/ 84	0	35	18	53	62.7
75/ 79	1	93	54	148	60.2
70/ 74	8	140	91	239	57.9
65/ 69	22	132	103	257	56.2
60/ 64	101	191	189	481	54.6
55/ 59	197	194	213	604	51.5
50/ 54	255	180	201	636	47.6
45/ 49	222	162	176	560	42.7
40/ 44	138	120	130	388	38.5
35/ 39	204	166	175	545	34.3
30/ 34	229	176	196	601	29.9
25/ 29	197	156	171	524	24.8
20/ 24	122	108	119	349	20.5
15/ 19	152	142	138	432	16.2
10/ 14	135	136	133	404	11.1
5/ 9	143	140	135	418	5.9
0/ 4	140	138	134	412	0.7
-5/ -1	86	90	87	263	-3.8
-10/ -6	116	115	118	349	-8.1
-15/-11	84	79	84	247	-12.8
-20/-16	109	84	93	286	-17.1
-25/-21	98	62	73	233	-22.3
-30/-26	74	42	47	163	-27.5
-35/-31	40	18	24	82	-31.9
-40/-36	32	11	14	57	-36.4
-45/-41	12	3	3	18	-41.5
-50/-46	2	1	0	3	-46.5
-55/-51	0	0		0	-50.7

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Annual Summary of Temperatures



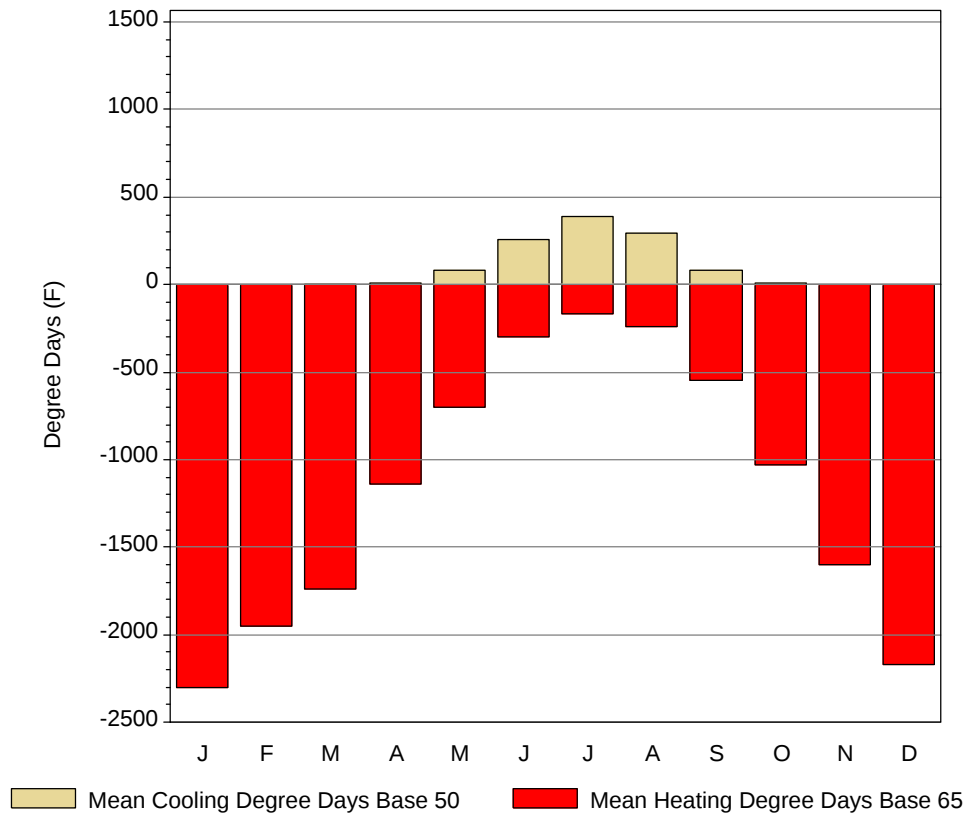
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

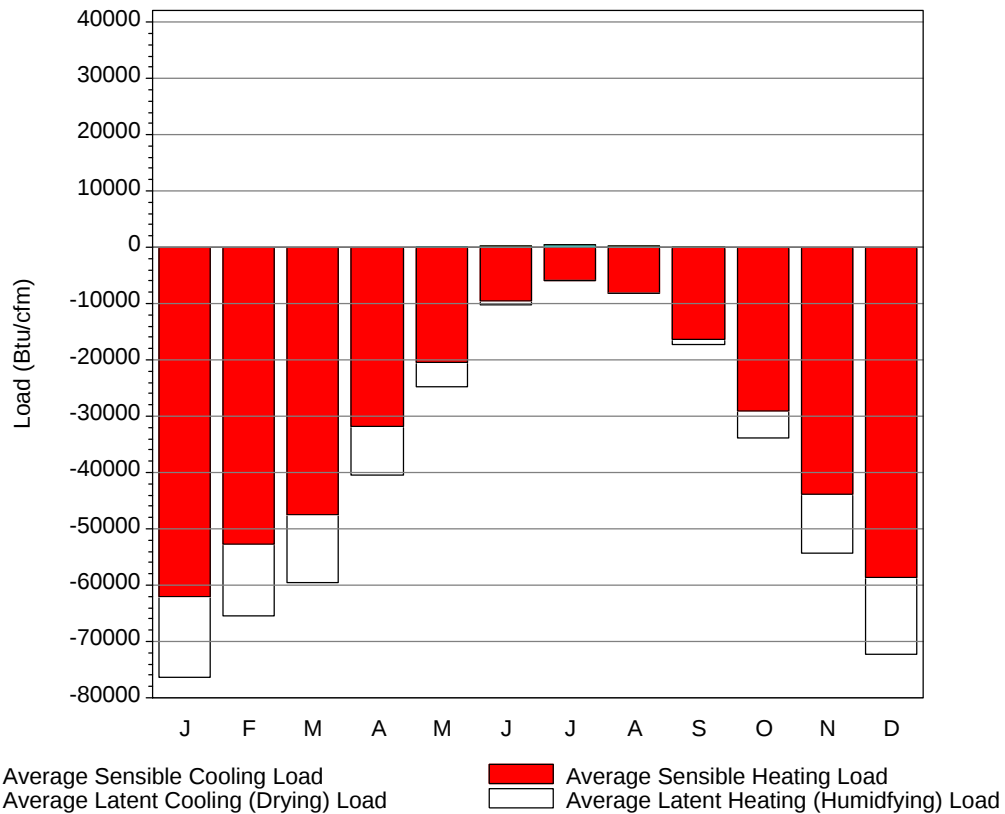
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	27	25.5	-1.9	-16.3	-38	19.6	27.2	5.6	2.7
14-Jan	25	23.6	-2.5	-18.2	-40	16.8	23.8	5.1	2.1
21-Jan	28	27.7	-0.8	-17.3	-38	21	27.8	5.8	2.6
28-Jan	27	25.9	1.4	-15.5	-42	18.9	26.2	6.3	2.5
4-Feb	34	31.6	2.5	-15.3	-42	23.1	35.4	6.7	2.8
11-Feb	28	25.4	3.7	-14.7	-36	18.2	27.8	6.3	2.5
18-Feb	32	30.9	4.3	-15.3	-36	23.1	31.3	6.4	2.6
25-Feb	32	29.8	8.1	-13	-35	21.7	30.3	7.4	3
4-Mar	39	33.9	11.5	-10.8	-35	23.8	36.6	8.5	3.6
11-Mar	42	36.5	14.9	-7.6	-33	27.3	37.7	9.9	4.3
18-Mar	42	34.7	18.2	-4.5	-26	25.2	37.6	10.2	4.4
25-Mar	46	36.6	23.2	-0.5	-22	28	35.7	11.9	5.3
1-Apr	46	37.6	29.7	6.9	-17	29.4	37.5	15.4	7.6
8-Apr	50	39	30.4	7.7	-16	30.1	38	15.5	8
15-Apr	54	42.4	36.4	14.7	-9	32.2	40.9	18.7	10.3
22-Apr	61	45.8	40.1	18	-2	35.7	49.6	20.1	11.5
29-Apr	63	47.8	42	21.4	3	40.6	51.4	22.1	13.2
6-May	68	51	47.6	25.9	10	51.1	55.3	26.7	15.9
13-May	74	56	48.4	27.8	14	49	58.8	28.2	17.1
20-May	75	54.7	53.3	31.3	16	56	62	31.7	19.9
27-May	77	57	57.8	35.9	27	59.5	61.7	36.7	23.9
4-Jun	80	58.7	61.8	39.2	27	67.9	61.8	42	27
10-Jun	79	58.2	64.4	42.5	30	69.3	61.3	46.5	30.3
17-Jun	81	59.2	65.9	45.2	36	78.4	68.1	49.9	33.4
24-Jun	82	60.6	67.4	47.5	37	84	65	56.6	37.8
1-Jul	82	62.6	69.6	49	39	90.3	67.8	58.6	39.9
8-Jul	82	62.3	70	50.4	42	88.2	72.9	62.3	43.1
15-Jul	84	64.5	72.9	52.3	43	95.2	69.9	68.2	46.3
22-Jul	86	65.8	71.8	51.9	43	89.6	71.8	66.9	46.6
29-Jul	84	64.2	73.2	52.9	44	95.2	72.8	70.8	49
5-Aug	82	63.9	71.3	51.8	44	89.6	68.5	69.1	48.3
12-Aug	86	65.6	70.8	51.2	43	92.4	77	68.1	47.3
19-Aug	82	63.5	68.5	49.6	39	88.9	73.1	65.3	45.5
26-Aug	79	65.2	65.3	48.3	39	84.7	66	63.2	44.3
2-Sep	79	64.5	63.8	46	37	83.3	68	59.9	42.2
9-Sep	79	61.3	59.9	42.8	32	80.5	64	53.1	36.9
16-Sep	72	57	55.9	39.4	30	73.5	64	48	33.3
23-Sep	68	55.6	52.3	36.5	27	65.1	56.4	42.8	29.5
30-Sep	70	56.6	50.7	35.5	26	60.9	59.5	41.2	27.6
7-Oct	63	51.1	44.7	31	19	52.5	52.5	33	22.7
14-Oct	57	46.9	41.1	28.7	16	45.5	47.3	30.5	20.6
21-Oct	50	44.1	35.5	25.1	12	43.4	44.4	26.6	18.5
28-Oct	48	40.9	33.2	23.4	10	36.4	44.1	24.6	17.1
4-Nov	40	36.3	26.9	15.1	-11	30.8	37	19.2	12.4
11-Nov	41	37.2	22.7	10	-11	30.8	39.3	16.1	9.7
18-Nov	36	33.7	19.8	5.8	-15	28.7	35.3	14.7	8.1
25-Nov	30	28.9	11.6	-1.7	-24	22.4	28.5	10.1	5.4
2-Dec	30	28.8	9.8	-5.6	-31	21.7	28.3	9.5	4.6
9-Dec	30	29.1	4.2	-11.7	-34	21.7	28.8	7.6	3.3
16-Dec	30	28.4	4.3	-10.4	-41	20.3	27.9	7.9	4
23-Dec	27	24.9	2.9	-11.8	-42	18.2	26.7	7.1	3.5
31-Dec	25	23.6	-0.7	-15.4	-40	16.8	23.3	6	2.8

Degree Days, Heating and Cooling (Base 65 F) & Cooling (Base 50F)



Month	Mean Cooling Degree Days (°F) Base 50	Mean Cooling Degree Days (°F) Base 65	Mean Heating Degree Days (°F) Base 65
JAN	0	0	2299
FEB	0	0	1951.9
MAR	0.1	0	1736
APR	8.4	0.2	1137.5
MAY	79.9	10.7	700.2
JUN	256.8	47.2	296.1
JUL	391.6	84.3	166.8
AUG	297.1	53.2	242.3
SEP	81.7	7.8	546
OCT	5.4	0	1028.1
NOV	0	0	1602.1
DEC	0	0	2168.4
ANN	1121	203.4	1387.4

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



Month	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	-62002	0	-14243
FEB	0	-52792	0	-12585
MAR	0	-47407	0	-12132
APR	0	-31812	0	-8519
MAY	25	-20442	0	-4297
JUN	157	-9521	33	-709
JUL	366	-5959	134	-29
AUG	225	-8184	77	-25
SEP	20	-16391	6	-927
OCT	0	-29059	0	-4874
NOV	0	-43860	0	-10472
DEC	0	-58616	0	-13627
ANN	793	-386045	250	-82439

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	N/A	N/A	N/A
Lat, Lon, Elev	N/A	N/A	N/A
Press Stn Type	N/A	N/A	N/A

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													
	Std.Dev.													
	Minimum													
	Maximum													
	Diffuse													
Clear Day	Global													
NORTH	Global													
	Diffuse													
Clear Day	Global													
EAST	Global													
	Diffuse													
Clear Day	Global													
SOUTH	Global													
	Diffuse													
Clear Day	Global													
WEST	Global													
	Diffuse													
Clear Day	Global													

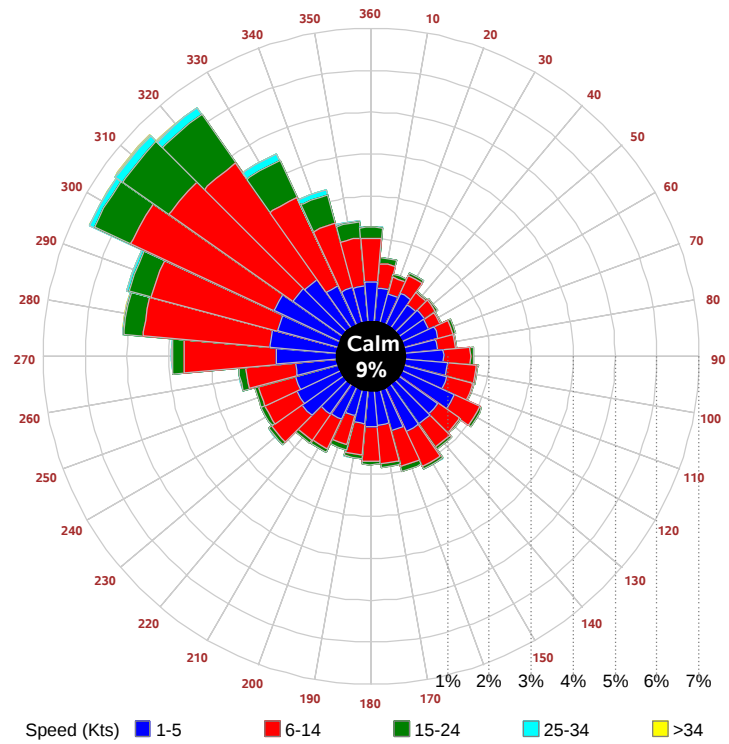
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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													
NORTH	Unshaded													
	Shaded													
EAST	Unshaded													
	Shaded													
SOUTH	Unshaded													
	Shaded													
WEST	Unshaded													
	Shaded													

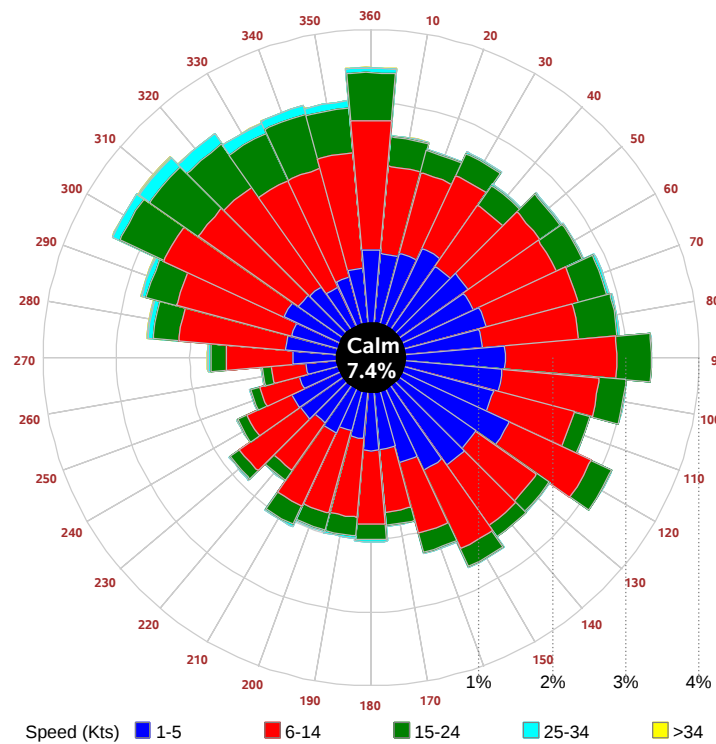
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9												
				March						June		
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear											
	M.Cloudy											
NORTH	M.Clear											
	M.Cloudy											
EAST	M.Clear											
	M.Cloudy											
SOUTH	M.Clear											
	M.Cloudy											
WEST	M.Clear											
	M.Cloudy											
M.Clear	(% hrs)											

				Sept						Dec		
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear											
	M.Cloudy											
NORTH	M.Clear											
	M.Cloudy											
EAST	M.Clear											
	M.Cloudy											
SOUTH	M.Clear											
	M.Cloudy											
WEST	M.Clear											
	M.Cloudy											
M.Clear	(% hrs)											

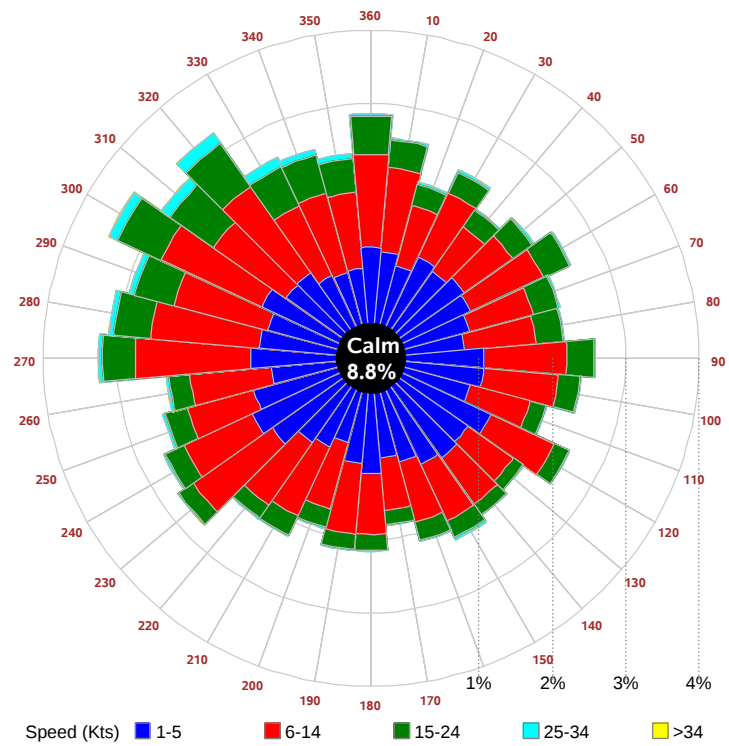
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

