

WESTOVER ARB METROPOLITA, MA

Latitude = 42.19 N

Longitude = 72.53 W

Period of Record = 1988 To 2017

Station ID = ICAO_KCEF

Elevation = 241 Feet

Average Pressure = 29.74 inches Hg

Design Criteria Data

Dry Bulb Temperature (T)	Mean Coincident (Average) Values				
	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	96	75	96	10.4	WSW
0.4% Occurrence	91	72	91	9.7	SSW
1.0% Occurrence	88	71	90	9	SSW
2.0% Occurrence	85	70	86	8.5	SSW
Mean Daily Range	21	-	-	-	N
97.5% Occurrence	12	10	7	6.8	N
99.0% Occurrence	6	5	5	6	N
99.6% Occurrence	0	-1	4	4.5	NE
Median of Extreme Lows	-9	-9	3	1.9	NE

Wet Bulb Temperature (T _{wb})	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	79	90	129	9.4	SSW
0.4% Occurrence	76	85	118	8.6	S
1.0% Occurrence	74	82	112	7.8	S
2.0% Occurrence	73	81	109	7.3	S

Humidity Ratio (HR)	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	136	83	0.9	5.9	S
0.4% Occurrence	125	80	0.83	6.7	S
1.0% Occurrence	118	78	0.78	6.9	S
2.0% Occurrence	111	77	0.74	6.5	S

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	21	468	193	906

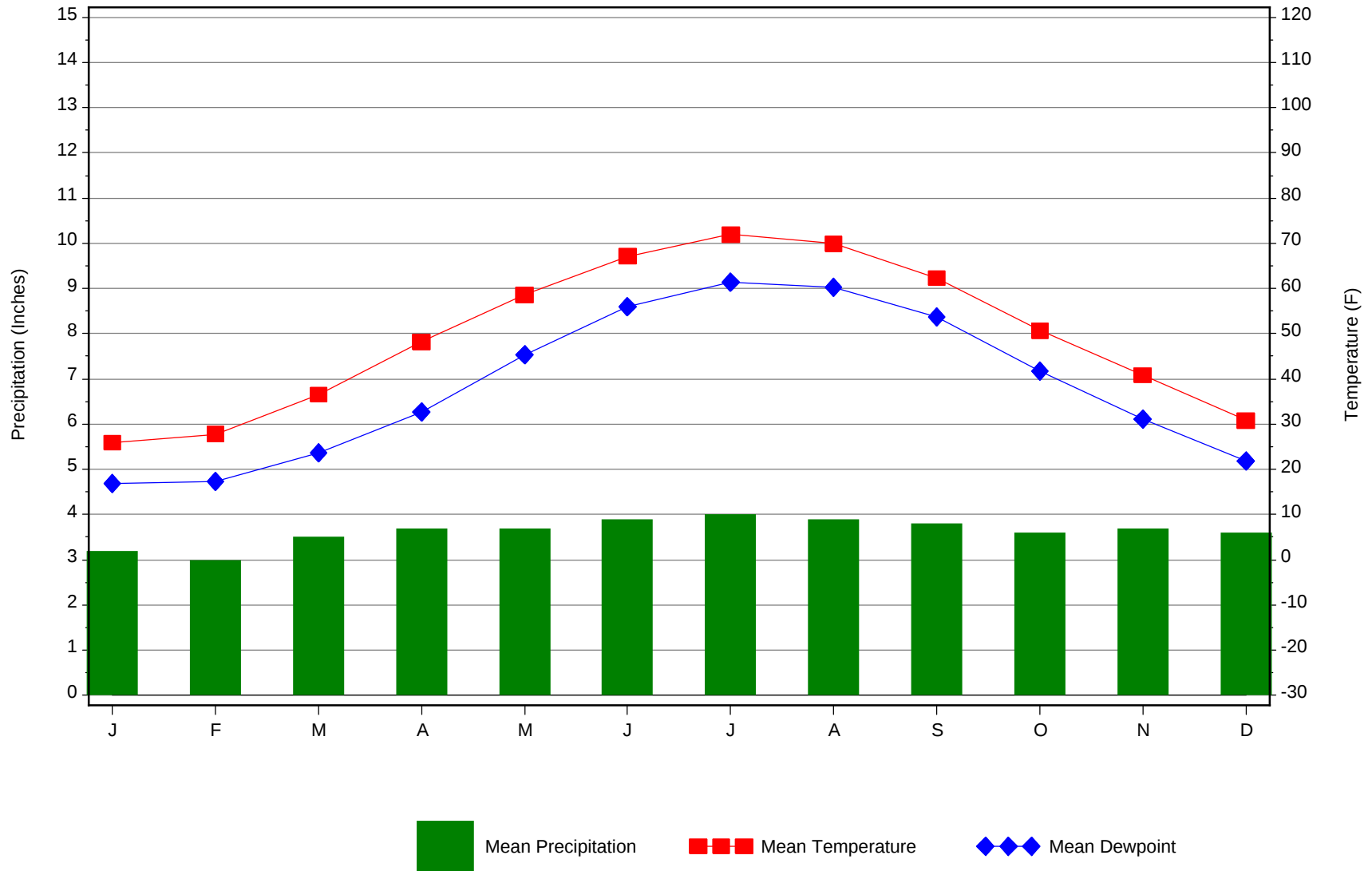
Other Site Data

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
6	2.8	110	1.3 + 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 (#)
51.8	64	35	88

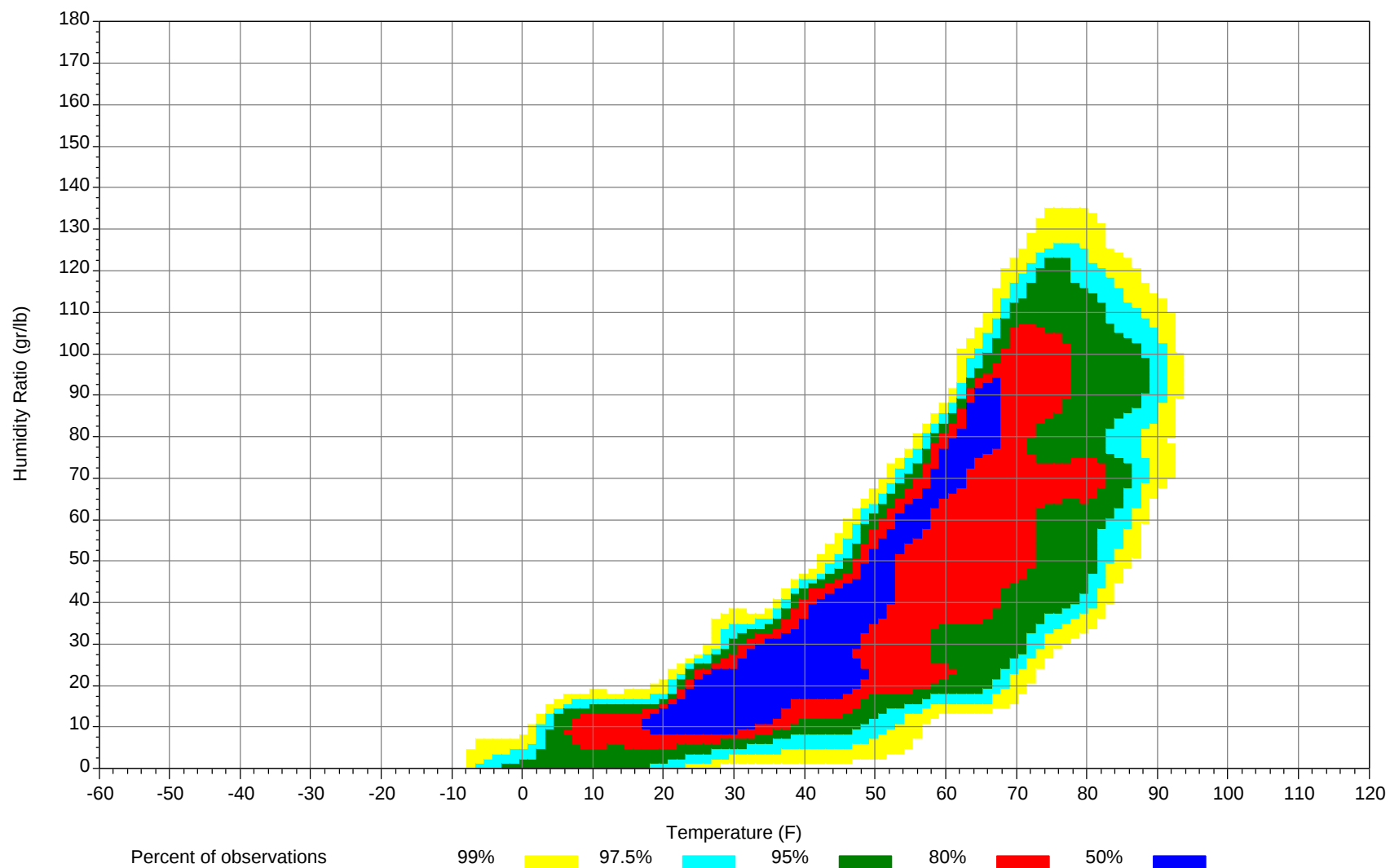
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



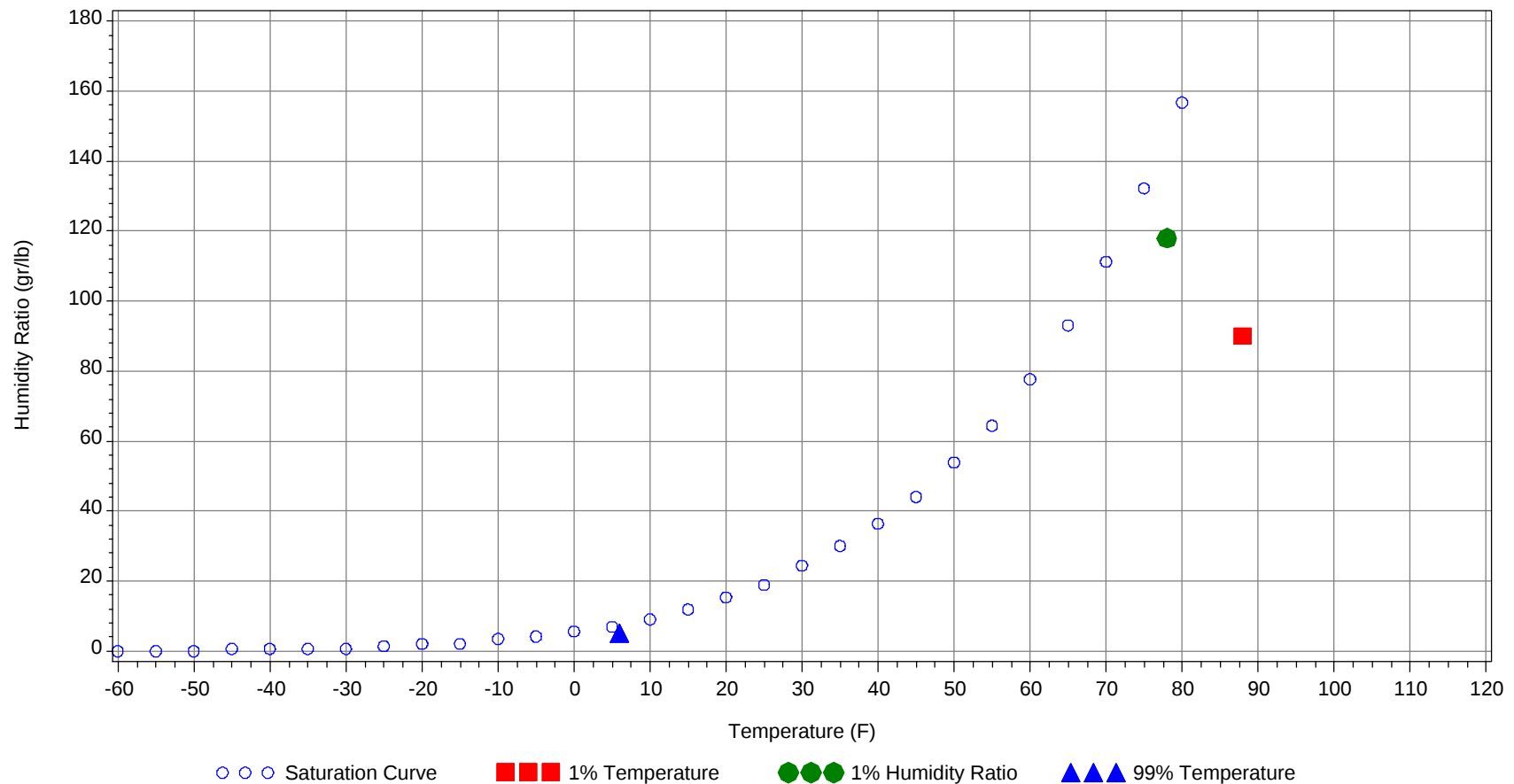
Average Annual Climate



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	88.0		71		90.0	35.2
99.0% Dry Bulb	6.0				5.0	2.2
1.0% Humidity Ratio	118.0	78.0	73.4	71.6		37.1

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)
100/104															
95/ 99															
90/ 94												0		0	65
85/ 89												0		0	65.8
80/ 84												1	0	1	62.9
75/ 79												1	0	1	60.9
70/ 74		0		0	59		0		0	59.5	0	2	1	3	56.8
65/ 69		0	0	0	56		0	0	0	56.4	0	4	1	5	55.4
60/ 64		1	0	1	56.4	0	1	0	1	51.9	1	9	4	14	50.9
55/ 59	1	3	1	5	53.2	1	3	1	5	49.8	2	13	7	22	47.7
50/ 54	1	6	3	10	47.5	1	8	4	13	44.6	6	23	15	44	44.3
45/ 49	3	10	5	18	42.1	3	15	8	26	40.5	13	39	29	81	40.5
40/ 44	7	21	11	39	37.5	8	21	14	43	36.9	21	40	33	94	36.9
35/ 39	24	42	34	100	33.6	19	43	34	96	32.9	46	51	55	152	33
30/ 34	43	50	49	142	29.5	38	47	49	134	29	54	35	49	138	28.7
25/ 29	37	43	47	127	24.2	35	35	42	112	23.8	45	17	31	93	24
20/ 24	32	25	30	87	19.6	35	22	29	86	19.5	28	7	13	48	19.6
15/ 19	30	22	29	81	15.3	32	16	21	69	15.2	15	4	7	26	15.1
10/ 14	27	15	19	61	10.6	21	7	12	40	10.4	9	1	2	12	10.4
5/ 9	18	7	12	37	5.7	14	3	5	22	5.8	4	1	1	6	5.9
0/ 4	12	3	5	20	1.1	9	1	2	12	1.3	2	0	0	2	1.1
-5/ -1	7	1	2	10	-3.2	3	0	1	4	-3	1			1	-2.9
-10/ -6	4	0	1	5	-7.6	3	0	0	3	-7.3	0			0	-6.9
-15/-11	1	0	0	1	-11.9	1			1	-12.2					
-20/-16	1			1	-16.8	1			1	-16.5					
-25/-21	0			0	-20.3										

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

	April					May					June				
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)
100/104															
95/ 99		0		0	67.5		0	0	0	68.7		1	0	1	73.7
90/ 94		1	0	1	64.9		3	1	4	68.1		9	2	11	71.7
85/ 89		1	0	1	63.9		7	2	9	66.8		17	4	21	70.1
80/ 84		3	1	4	62	0	15	6	21	64.8	1	42	15	58	67.6
75/ 79	0	6	2	8	58.1	0	26	11	37	61.9	4	52	31	87	65.3
70/ 74	0	13	5	18	55.3	3	36	20	59	59.1	18	49	45	112	63.7
65/ 69	1	17	9	27	52.9	9	37	28	74	56.9	43	31	46	120	62.1
60/ 64	5	32	19	56	50.2	24	48	46	118	54.8	59	24	46	129	58.7
55/ 59	11	40	30	81	47.4	45	38	49	132	51.7	56	12	33	101	54.7
50/ 54	25	45	40	110	44.6	62	28	49	139	48.2	37	2	15	54	50.2
45/ 49	41	42	48	131	41.3	54	8	26	88	44.1	17	0	3	20	45.9
40/ 44	46	24	39	109	37.8	29	1	9	39	40	5		0	5	41.4
35/ 39	52	11	29	92	34.1	15	0	2	17	36	0			0	37.3
30/ 34	35	4	13	52	29.7	5	0	0	5	31.6					
25/ 29	20	1	3	24	25.1	1		0	1	27.4					
20/ 24	4	0	0	4	21.1										
15/ 19	0			0	15.2										
10/ 14															
5/ 9															
0/ 4															
-5/ -1															
-10/ -6															
-15/-11															
-20/-16															
-25/-21															

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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)
100/104		0		0	73.3										
95/ 99		4	1	5	75.9		1	0	1	75		0		0	76
90/ 94	0	18	3	21	73.3		11	2	13	73.6		2	0	2	73.6
85/ 89	0	33	11	44	71.3		28	6	34	71.6		6	1	7	71.7
80/ 84	3	67	27	97	69.2	1	62	21	84	69.2		22	4	26	68.7
75/ 79	14	64	49	127	67.6	8	69	43	120	67.4	2	44	15	61	66.3
70/ 74	49	40	64	153	66.7	36	47	58	141	66.2	13	57	34	104	64.2
65/ 69	60	15	46	121	63.9	55	20	51	126	63.8	28	43	37	108	61.3
60/ 64	63	7	33	103	60.3	61	8	40	109	60.2	39	40	52	131	58.1
55/ 59	39	0	12	51	55.8	46	2	21	69	55.7	48	19	44	111	54.1
50/ 54	17		1	18	51.5	27	0	7	34	51.3	43	5	27	75	50.1
45/ 49	3		0	3	46.6	12		1	13	46.4	30	1	16	47	45.6
40/ 44	0			0	42.7	2		0	2	42.1	21	0	6	27	41.2
35/ 39						0			0	38	13		2	15	36.9
30/ 34											3		0	3	31.9
25/ 29											0		0	0	27.9
20/ 24															
15/ 19															
10/ 14															
5/ 9															
0/ 4															
-5/ -1															
-10/ -6															
-15/-11															
-20/-16															
-25/-21															

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

	October					November					December				
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)
100/104															
95/ 99															
90/ 94															
85/ 89		0	0	0	68.5										
80/ 84		2	0	2	66.1										
75/ 79	0	9	1	10	64.1		0		0	61.2					
70/ 74	2	21	5	28	62.2		2	0	2	59.3		0		0	61
65/ 69	5	25	12	42	59.3	0	6	2	8	58.5		1		1	56.5
60/ 64	10	43	23	76	56	4	14	8	26	56.2	1	2	1	4	56.9
55/ 59	24	55	44	123	51.9	8	24	13	45	51	2	5	3	10	52.9
50/ 54	36	48	48	132	47.5	15	36	21	72	46.4	5	11	7	23	47.3
45/ 49	45	30	48	123	43.2	25	50	37	112	42.1	9	21	11	41	42
40/ 44	38	10	30	78	39.3	33	44	39	116	37.7	12	29	19	60	37.7
35/ 39	37	4	24	65	35.6	41	36	49	126	33.7	32	54	41	127	33.7
30/ 34	31	1	11	43	31.1	44	19	37	100	29.3	47	53	54	154	29.2
25/ 29	16	0	3	19	26.7	38	6	24	68	25.2	45	34	49	128	24.5
20/ 24	4		0	4	22.2	20	1	7	28	20.7	34	19	28	81	19.9
15/ 19	0			0	17.9	9	0	2	11	16.7	30	13	19	62	15.7
10/ 14						2	0	0	2	11.8	16	4	9	29	10.9
5/ 9						0		0	0	8.1	8	2	3	13	6.3
0/ 4						0			0	1	4	1	2	7	1.7
-5/ -1						0			0	-3	2	0	0	2	-2.8
-10/ -6											1		0	1	-6.4
-15/-11											0			0	-11.8
-20/-16															
-25/-21															

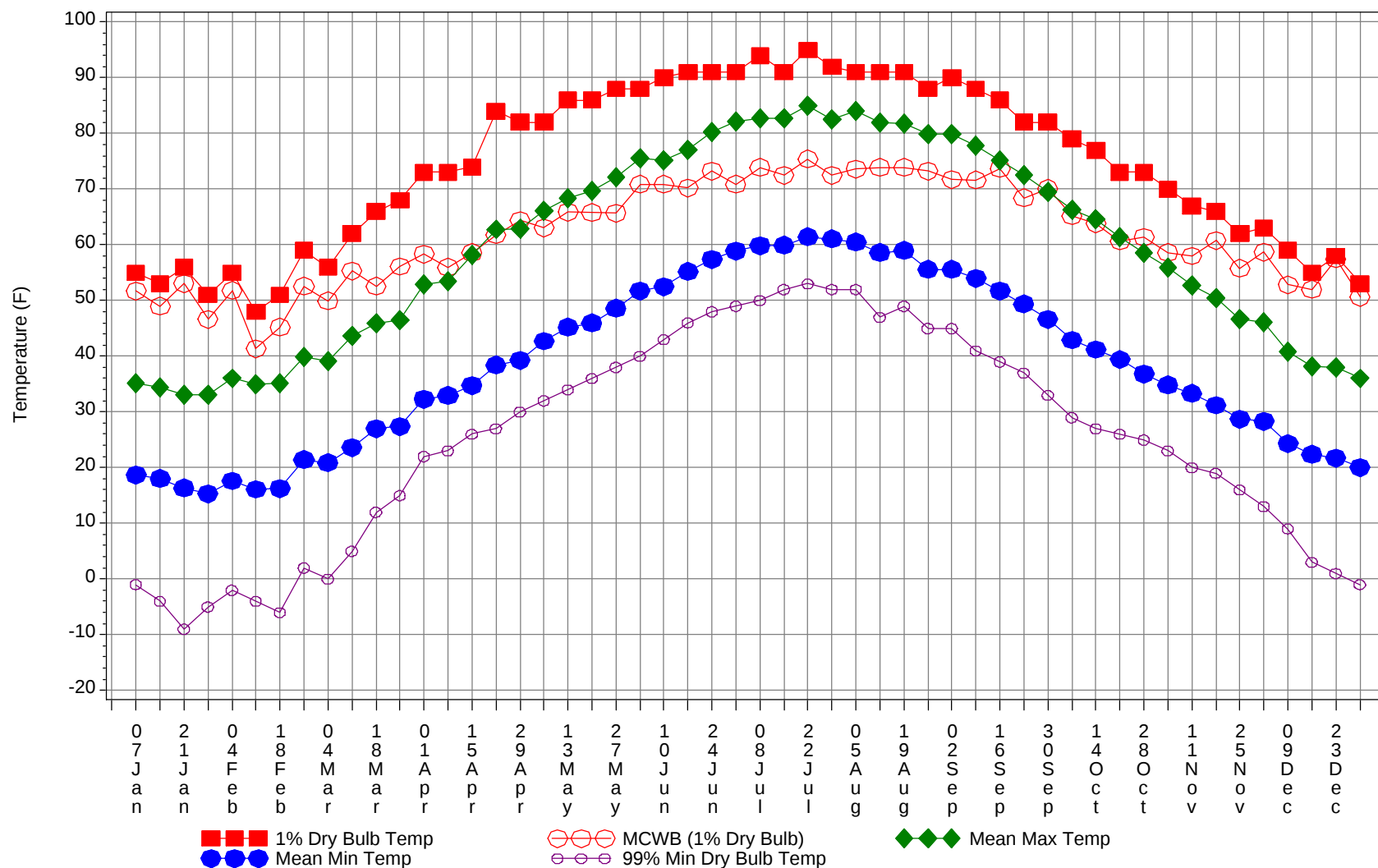
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

Dry-Bulb Temperature Hours For An Average Year

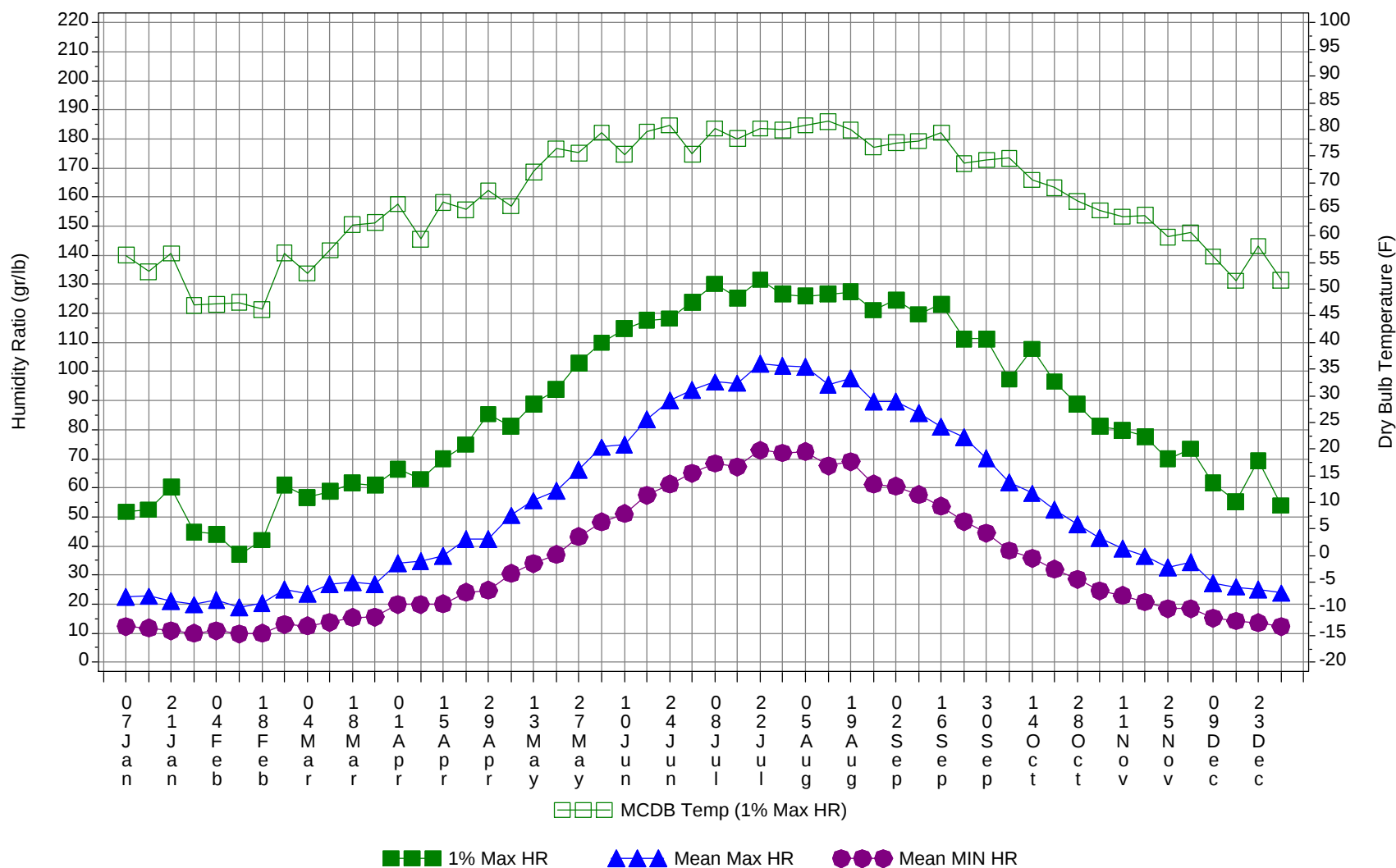
Temperature Range (° F)	Annual				
	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)
100/104		0		0	73.3
95/ 99		7	1	8	74.9
90/ 94	0	44	8	52	72.5
85/ 89	0	93	24	117	70.8
80/ 84	4	213	74	291	68.4
75/ 79	29	271	153	453	66.2
70/ 74	122	268	232	622	64.3
65/ 69	201	199	232	632	61.4
60/ 64	266	229	272	767	57.3
55/ 59	282	216	259	757	52.5
50/ 54	276	212	237	725	47.6
45/ 49	254	217	233	704	42.6
40/ 44	225	189	201	615	38.1
35/ 39	279	241	269	789	33.8
30/ 34	300	208	263	771	29.3
25/ 29	237	136	199	572	24.4
20/ 24	156	75	108	339	19.8
15/ 19	117	55	78	250	15.4
10/ 14	74	28	43	145	10.6
5/ 9	45	12	21	78	5.9
0/ 4	27	5	10	42	1.2
-5/ -1	13	1	3	17	-3.1
-10/ -6	8	0	1	9	-7.3
-15/-11	3	0	0	3	-12
-20/-16	1			1	-16.7
-25/-21	0			0	-20.3

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Annual Summary of Temperatures



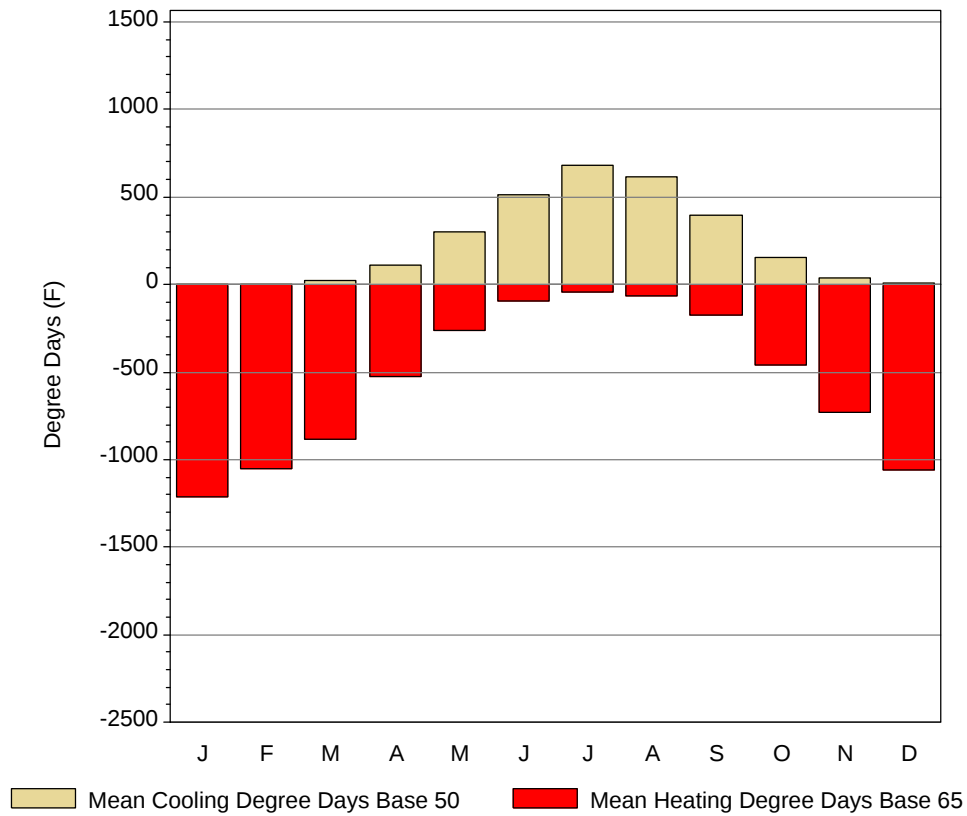
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

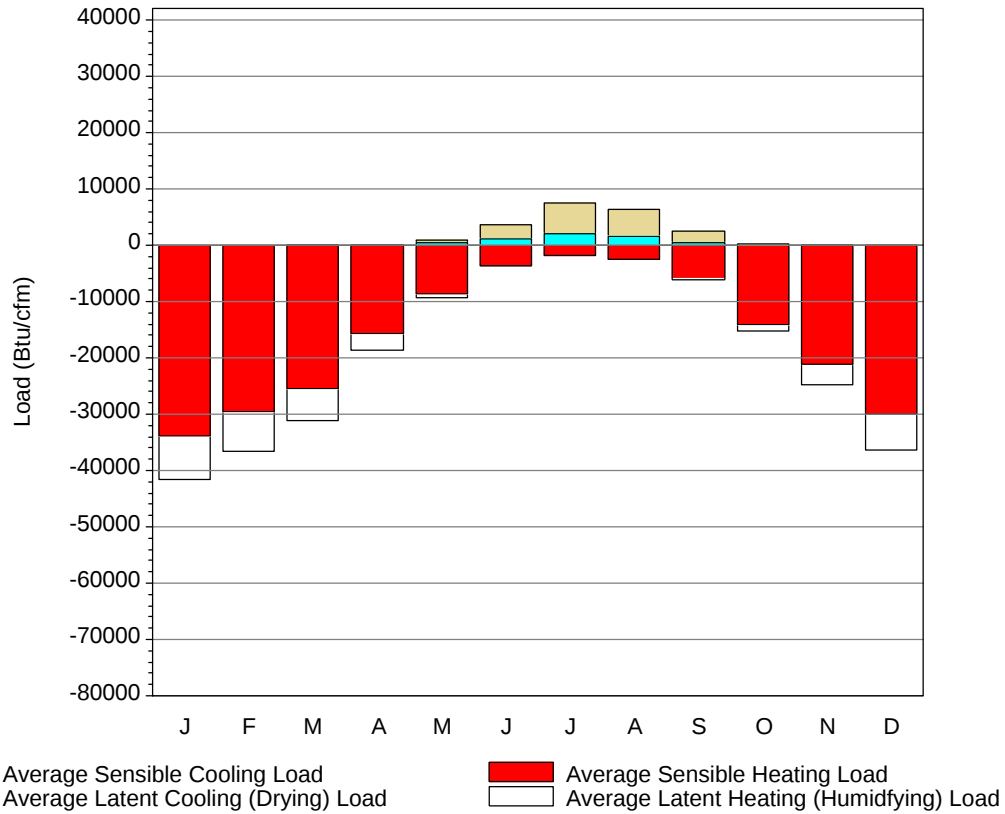
Week Ending	1.0% Temp (°F)	MCWB@ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB@ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	55	51.7	35.1	18.7	-1	51.8	56.4	22.4	12.3
14-Jan	53	49	34.4	18	-4	52.5	53.3	22.7	11.7
21-Jan	56	53	33	16.3	-9	60.2	56.7	21	10.9
28-Jan	51	46.6	33.1	15.3	-5	44.8	47	19.8	9.9
4-Feb	55	51.8	36	17.6	-2	44.1	47.2	21.4	10.9
11-Feb	48	41.3	34.9	16.1	-4	37.1	47.5	18.9	9.7
18-Feb	51	45.2	35.2	16.2	-6	42	46.2	20.4	9.9
25-Feb	59	52.6	39.9	21.4	2	60.9	56.8	25	13
4-Mar	56	49.9	39.2	20.9	0	56.7	53	23.5	12.4
11-Mar	62	55.3	43.6	23.6	5	58.8	57.3	26.7	13.7
18-Mar	66	52.6	46	27	12	61.6	62.1	27.4	15.4
25-Mar	68	56.1	46.5	27.4	15	60.9	62.5	26.8	15.6
1-Apr	73	58.3	52.8	32.3	22	66.5	66	34	19.8
8-Apr	73	56	53.5	32.9	23	63	59.4	34.9	19.8
15-Apr	74	58.6	58.1	34.7	26	70	66.3	36.7	20.1
22-Apr	84	61.8	62.8	38.4	27	74.9	64.9	42.3	24
29-Apr	82	64.4	62.9	39.3	30	85.4	68.5	42.4	24.7
6-May	82	63	66.1	42.7	32	81.2	65.6	50.5	30.6
13-May	86	65.9	68.4	45.2	34	88.9	72	55.6	34
20-May	86	65.8	69.6	46	36	93.8	76.4	58.9	37
27-May	88	65.7	72.2	48.6	38	102.9	75.6	66.3	43.2
4-Jun	88	70.9	75.6	51.7	40	109.9	79.4	74	48.2
10-Jun	90	70.9	75.1	52.5	43	114.8	75.3	74.8	51.1
17-Jun	91	70.2	77.1	55.2	46	117.6	79.6	83.5	57.5
24-Jun	91	73.2	80.3	57.4	48	118.3	80.8	90	61.2
1-Jul	91	70.9	82.2	58.9	49	123.9	75.4	93.6	65.1
8-Jul	94	73.9	82.8	59.8	50	130.2	80.2	96.4	68.4
15-Jul	91	72.5	82.8	59.9	52	125.3	78.3	96	67.2
22-Jul	95	75.4	84.9	61.4	53	131.6	80.2	102.7	72.9
29-Jul	92	72.5	82.6	61.1	52	126.7	79.9	101.9	72
5-Aug	91	73.6	84.1	60.5	52	126	80.8	101.5	72.5
12-Aug	91	73.9	82	58.6	47	126.7	81.5	95.5	67.5
19-Aug	91	73.9	81.7	59	49	127.4	79.9	97.7	69.1
26-Aug	88	73.2	79.8	55.6	45	121.1	76.7	89.8	61.2
2-Sep	90	71.7	79.9	55.6	45	124.6	77.5	89.8	60.6
9-Sep	88	71.6	77.8	54	41	119.7	77.8	85.6	57.7
16-Sep	86	73.7	75.1	51.7	39	123.2	79.4	81.1	53.7
23-Sep	82	68.4	72.6	49.4	37	111.3	73.6	77.3	48.5
30-Sep	82	70.1	69.5	46.6	33	111.3	74.3	70.3	44.5
7-Oct	79	65.2	66.3	42.9	29	97.3	74.6	61.8	38.4
14-Oct	77	63.8	64.6	41.2	27	107.8	70.5	58.1	35.8
21-Oct	73	60.7	61.3	39.4	26	96.6	69.1	52.6	32
28-Oct	73	61.3	58.6	36.8	25	88.9	66.5	47.5	28.5
4-Nov	70	58.6	56	34.8	23	81.2	64.8	42.8	24.5
11-Nov	67	58	52.7	33.3	20	79.8	63.6	39.2	23
18-Nov	66	60.8	50.5	31.2	19	77.7	63.9	36.4	20.7
25-Nov	62	55.8	46.7	28.7	16	70	59.8	32.5	18.4
2-Dec	63	58.7	46.1	28.3	13	73.5	60.6	34.4	18.5
9-Dec	59	52.8	40.9	24.3	9	61.6	56.1	27.3	15.1
16-Dec	55	52	38.1	22.4	3	55.3	51.6	25.9	14.2
23-Dec	58	57.5	37.9	21.7	1	69.3	58.1	24.9	13.6
31-Dec	53	50.6	36	20	-1	53.9	51.7	23.8	12.3

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	2.7	0	1209.2
FEB	3.5	0.1	1051
MAR	25.6	2.6	886.4
APR	114.3	16.9	521.6
MAY	304.7	67.1	264.8
JUN	515.5	157.1	95.7
JUL	680.2	254	39.2
AUG	618.1	214	63.1
SEP	395.1	95	175.1
OCT	152.9	16.9	459.7
NOV	39	1.3	728.3
DEC	6.4	0.1	1061.9
ANN	2858	825.1	6556

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	-33749	0	-7914
FEB	0	-29438	0	-7200
MAR	10	-25358	1	-5774
APR	88	-15692	15	-2947
MAY	403	-8706	439	-557
JUN	1083	-3629	2502	-12
JUL	2039	-1729	5523	0
AUG	1544	-2519	4736	0
SEP	442	-6001	1998	-55
OCT	33	-14118	278	-1075
NOV	1	-21190	14	-3564
DEC	0	-29933	1	-6478
ANN	5643	-192062	15507	-35576

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	HARTFORD, CT 14740	Window:	1.000
Lat, Lon, Elev	41.93N 72.68W 180ft	Overhang:	0.589
Press, Stn_Type	14.6psia Secondary	Vert Gap:	0.327

AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day) Percentage Uncertainty = 11														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ.	Global	590	850	1160	1470	1720	1870	1860	1630	1300	940	580	480	1210
	Std.Dev.	44	74	74	109	128	146	110	81	93	66	48	35	30
	Minimum	530	690	980	1260	1460	1500	1620	1480	1150	820	490	400	1140
	Maximum	690	1010	1290	1710	1980	2160	2060	1760	1500	1130	670	540	1270
	Diffuse	320	430	580	720	860	920	900	790	620	440	320	270	600
Clear Day	Global	800	1150	1640	2140	2470	2590	2510	2210	1760	1250	840	690	1670
NORTH	Global	190	260	350	440	540	610	580	480	380	280	190	160	370
	Diffuse	190	260	350	430	500	540	530	470	380	280	190	160	360
Clear Day	Global	180	240	330	430	580	670	620	480	360	260	190	160	380
EAST	Global	400	550	710	860	960	1030	1020	940	780	590	380	330	710
	Diffuse	240	330	430	520	600	640	640	570	460	340	240	200	430
Clear Day	Global	620	820	1090	1300	1420	1450	1410	1310	1120	860	630	540	1050
SOUTH	Global	980	1090	1060	960	850	810	850	940	1050	1080	850	820	940
	Diffuse	360	440	500	550	590	600	600	580	520	440	340	300	480
Clear Day	Global	1780	1890	1800	1470	1160	1020	1060	1300	1620	1790	1730	1680	1520
WEST	Global	400	550	710	850	950	1020	1020	930	780	600	380	320	710
	Diffuse	240	330	430	520	610	650	650	580	470	340	240	200	440
Clear Day	Global	620	820	1090	1300	1420	1450	1410	1310	1120	860	630	540	1050

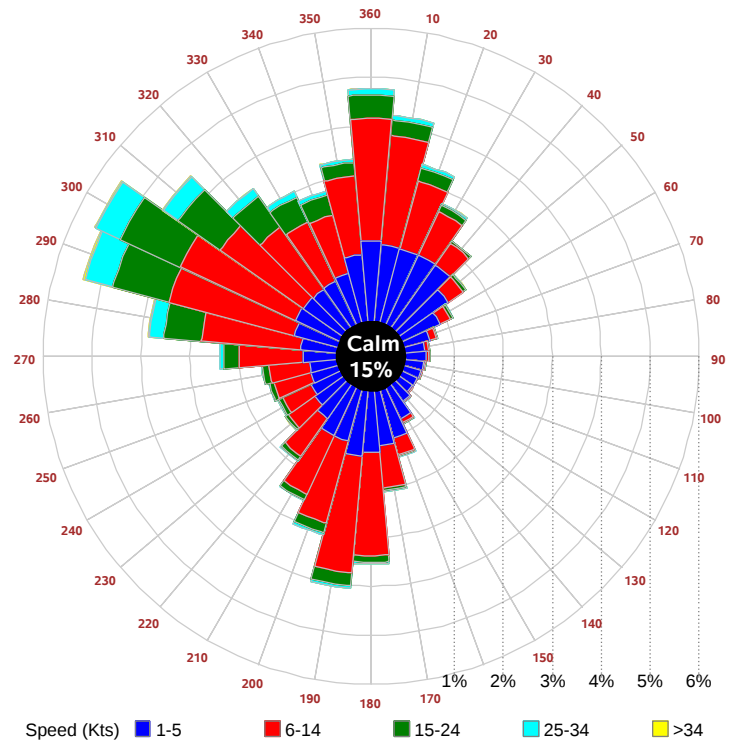
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING Percentage Uncertainty = 11														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ.	Unshaded	380	570	810	1050	1240	1350	1340	1170	930	650	390	300	850
NORTH	Unshaded	130	180	240	300	360	400	390	330	260	190	140	110	250
	Shaded	110	160	210	260	310	350	340	280	230	170	120	96	220
EAST	Unshaded	280	390	500	610	680	730	720	660	550	420	260	220	500
	Shaded	240	340	430	510	560	600	590	550	470	360	230	190	420
SOUTH	Unshaded	730	810	740	630	540	510	530	610	720	780	640	620	650
	Shaded	710	740	570	400	350	360	360	380	510	680	610	600	520
WEST	Unshaded	270	380	500	600	670	720	720	660	550	420	260	220	500
	Shaded	240	330	430	500	550	600	600	550	470	360	230	190	420

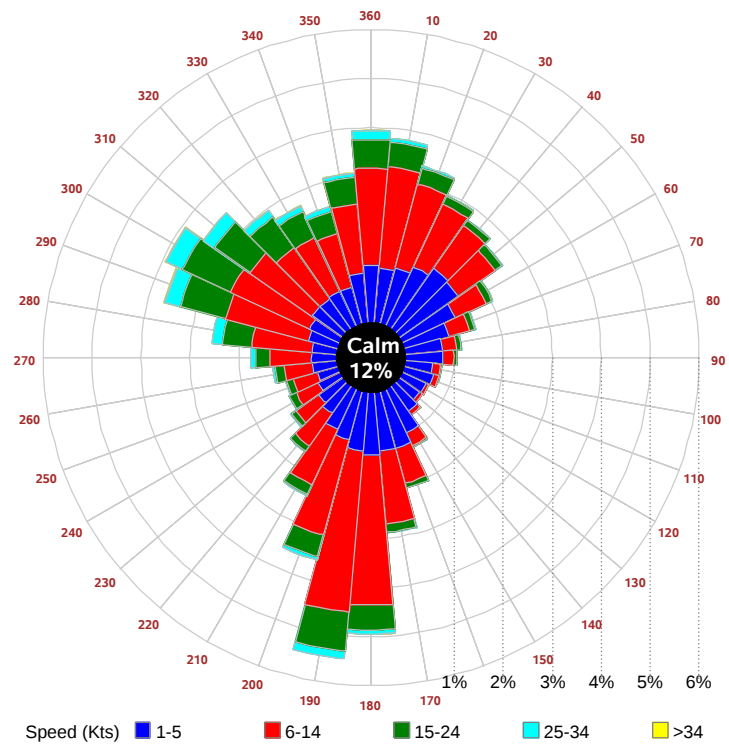
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 11												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	40	70	77	58	20	51	84	99	90	62	
	M.Cloudy	24	43	47	36	13	32	55	70	65	42	
NORTH	M.Clear	10	14	15	13	7	15	17	17	17	15	
	M.Cloudy	10	15	16	13	6	13	18	19	19	15	
EAST	M.Clear	70	51	15	13	7	77	68	26	17	15	
	M.Cloudy	25	28	16	13	6	34	40	24	19	15	
SOUTH	M.Clear	42	75	83	62	21	13	37	51	44	20	
	M.Cloudy	18	36	41	30	9	12	27	37	33	17	
WEST	M.Clear	10	14	28	67	53	13	17	17	55	76	
	M.Cloudy	10	15	21	32	18	12	18	19	39	41	
M.Clear	(% hrs)	34	31	27	29	32	33	32	24	25	26	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	30	65	80	71	39	14	37	40	21	0	
	M.Cloudy	18	39	53	48	25	9	22	24	13	0	
NORTH	M.Clear	9	14	16	15	11	5	9	10	7	0	
	M.Cloudy	8	14	17	16	10	4	9	10	6	0	
EAST	M.Clear	63	64	23	15	11	34	32	10	7	0	
	M.Cloudy	21	31	20	16	10	10	15	10	6	0	
SOUTH	M.Clear	24	60	76	66	33	34	76	81	49	0	
	M.Cloudy	11	29	44	38	17	10	27	29	16	0	
WEST	M.Clear	9	14	16	55	67	5	9	24	41	0	
	M.Cloudy	8	14	17	33	29	4	9	13	14	0	
M.Clear	(% hrs)	40	41	34	33	37	31	29	28	30	31	

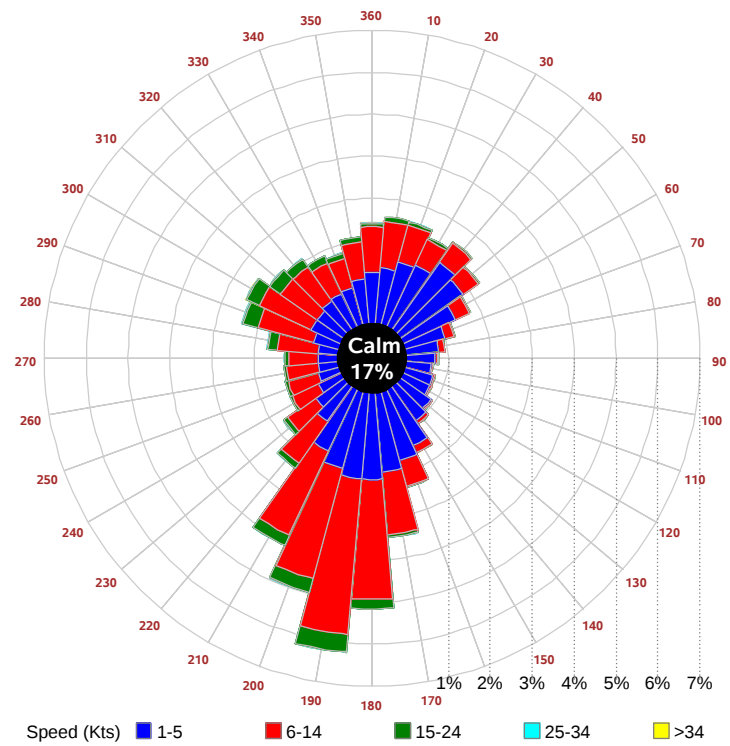
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

