

BALTIMORE WASHINGTON INT, MD

Latitude = 39.18 N

Longitude = 76.67 W

Period of Record = 1989 To 2018

Station ID = ICAO_KBWI

Elevation = 146 Feet

Average Pressure = 29.87 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	98	76	103	9.7	W
0.4% Occurrence	93	75	101	9.2	W
1.0% Occurrence	91	74	99	8.6	W
2.0% Occurrence	89	73	97	8.3	W
Mean Daily Range	18	-	-	-	WNW
97.5% Occurrence	23	20	10	7.9	WNW
99.0% Occurrence	18	16	8	7.3	W
99.6% Occurrence	14	12	6	8.3	W
Median of Extreme Lows	9	8	5	6.7	W

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	80	91	133	8.5	W
0.4% Occurrence	78	89	125	8	W
1.0% Occurrence	77	87	122	7.7	W
2.0% Occurrence	76	85	119	7.3	W

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	141	85	0.94	8.2	SSE
0.4% Occurrence	132	82	0.88	6	S
1.0% Occurrence	127	81	0.85	6.5	S
2.0% Occurrence	123	80	0.82	5.7	S

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	60	896	633	1821

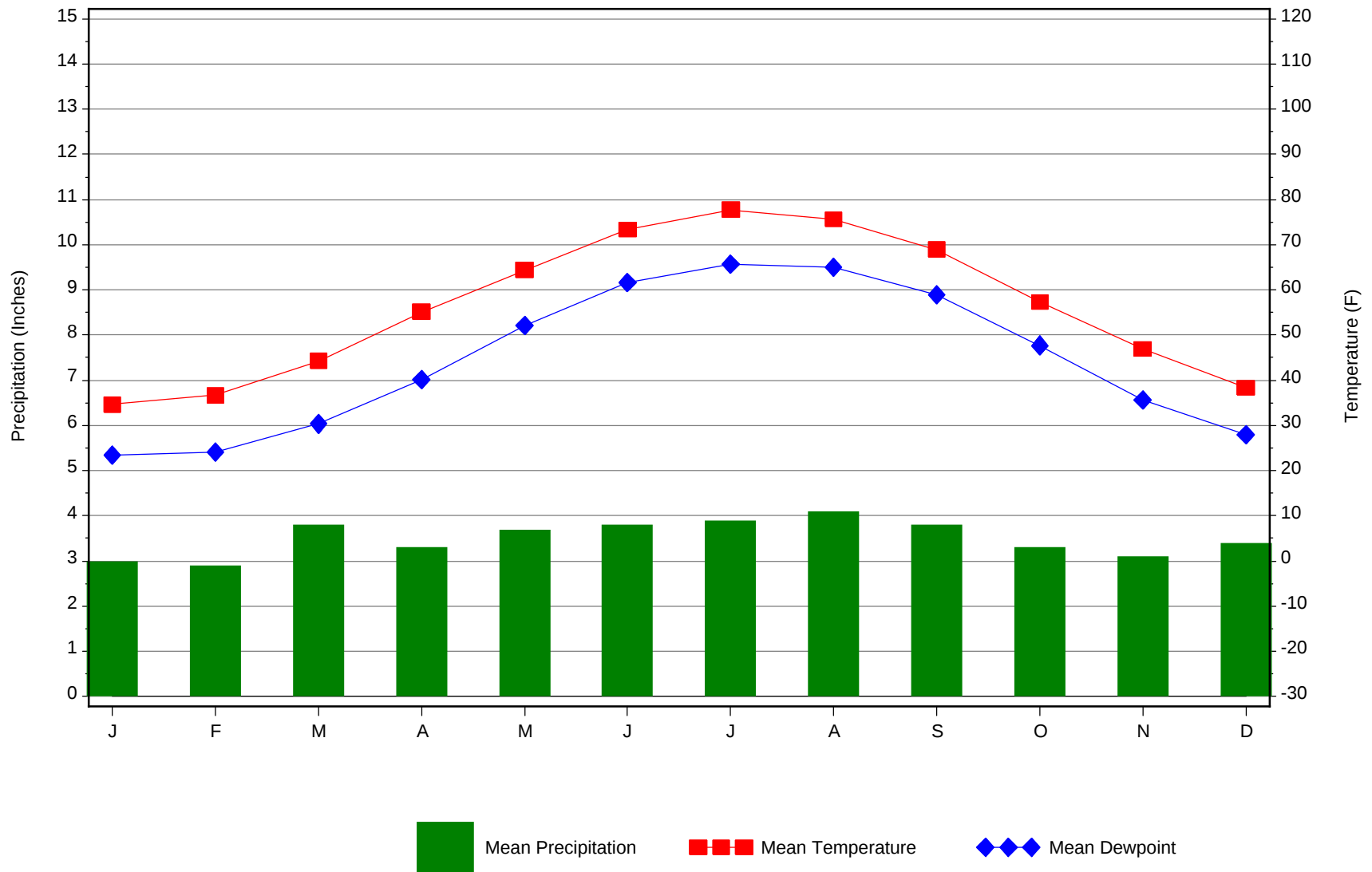
Other Site Data

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
7	3.3	90	2.8 + 0.9
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 (#)
58.7	29	22	61

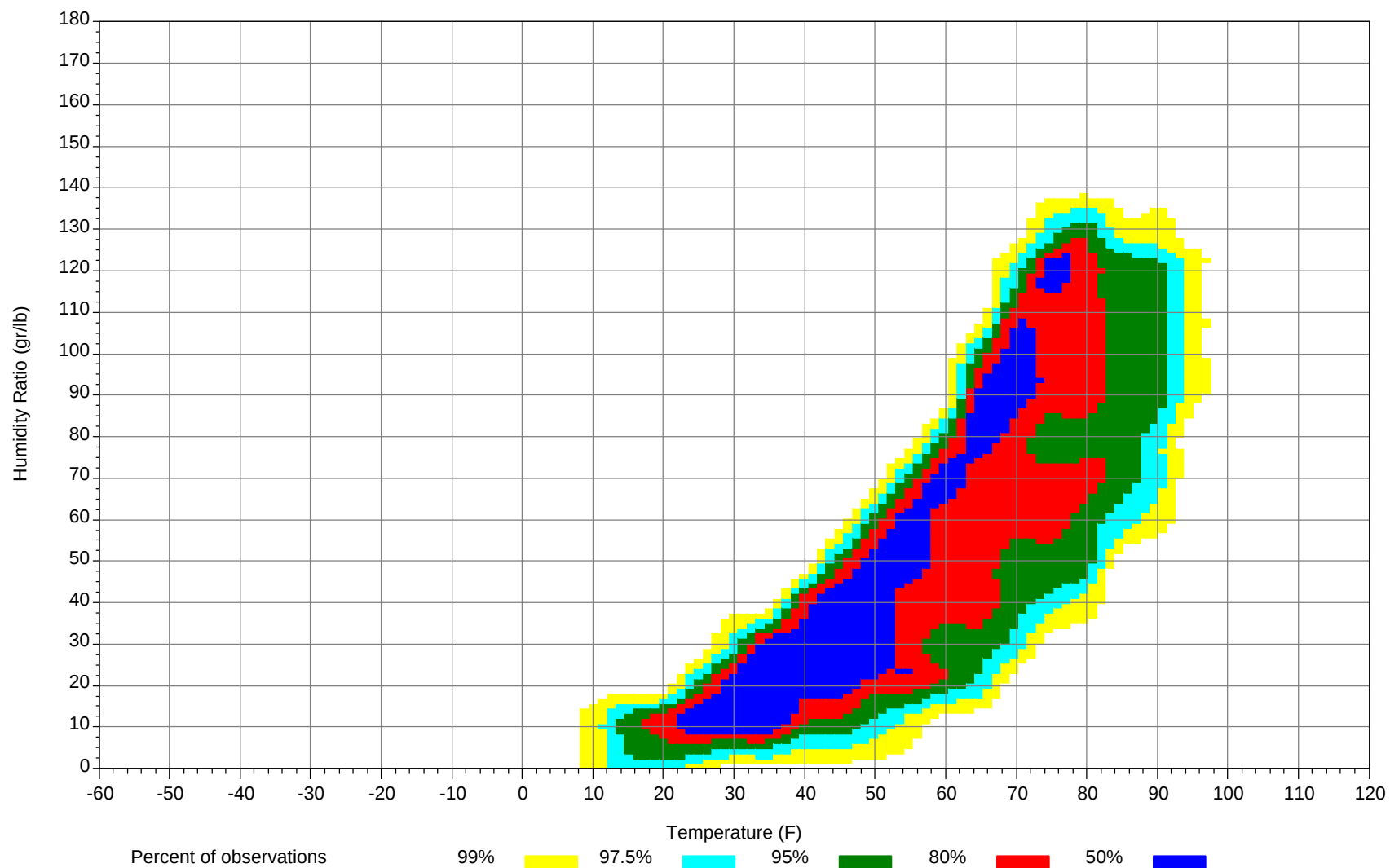
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



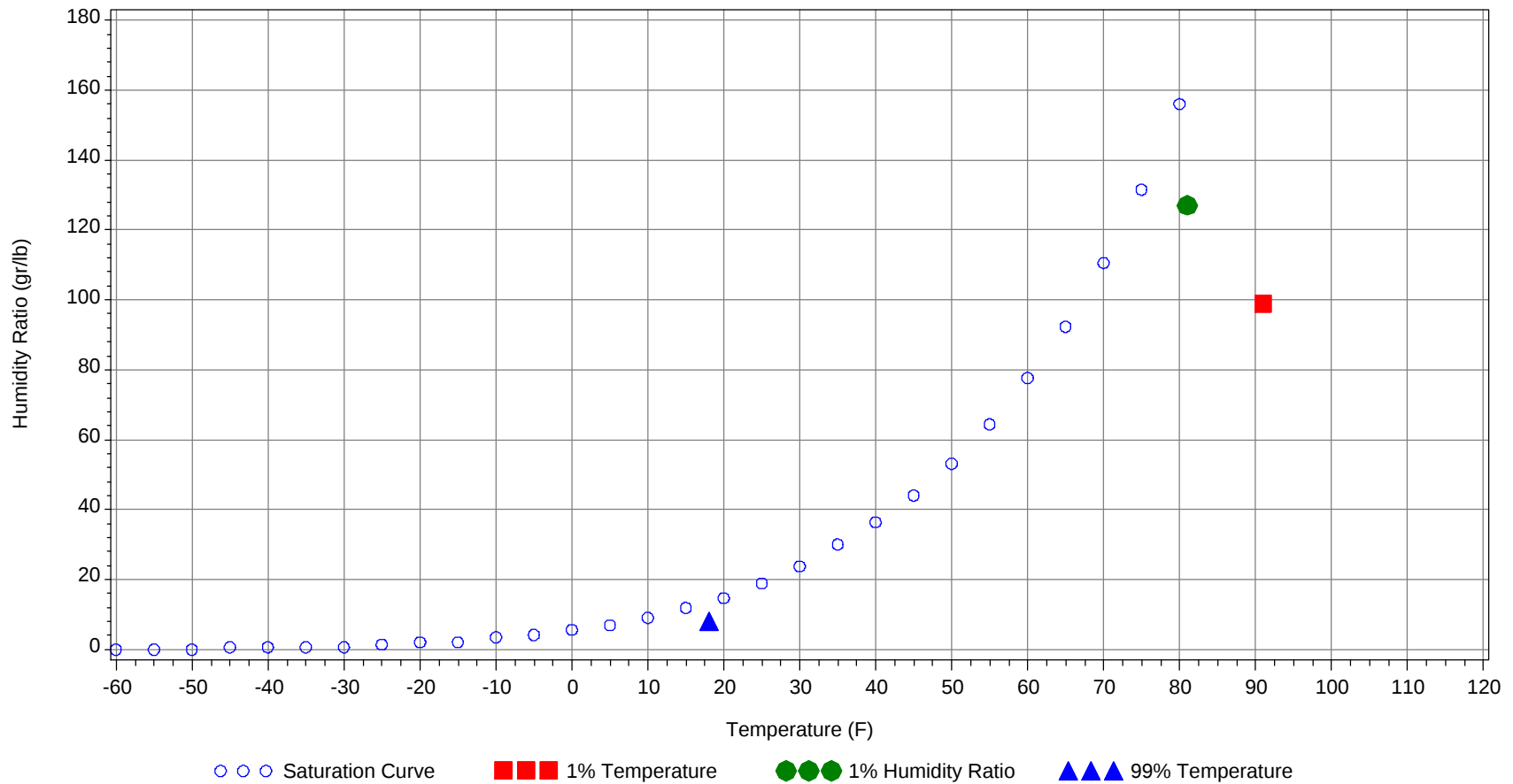
Average Annual Climate



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	91.0		74		99.0	37.6
99.0% Dry Bulb	18.0				8.0	5.5
1.0% Humidity Ratio	127.0	81.0	75.9	74.0		39.3

Dry-Bulb Temperature Hours For An Average Year

	January					February					March				
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)
105/109															
100/104															
95/ 99															
90/ 94															
85/ 89												0	0	0	65.8
80/ 84												2	1	3	63.6
75/ 79							0	0	0	63.9		4	2	6	60.8
70/ 74		1		1	59		2	1	3	58.6	1	9	4	14	58.2
65/ 69		2	1	3	58.6	0	3	2	5	56.6	2	10	6	18	56
60/ 64	2	7	4	13	55.9	2	7	4	13	52.9	6	21	14	41	52.5
55/ 59	4	9	6	19	51.4	4	11	7	22	48.4	9	26	20	55	48.7
50/ 54	4	18	9	31	45.9	6	20	14	40	44.9	17	36	31	84	45.4
45/ 49	14	32	22	68	41.8	14	36	28	78	40.9	36	53	53	142	41
40/ 44	21	34	30	85	37.8	17	32	27	76	37.1	35	34	37	106	37.3
35/ 39	41	51	51	143	33.3	42	44	48	134	32.9	54	31	43	128	33
30/ 34	50	42	50	142	28.7	51	36	44	131	28.6	48	15	25	88	28.6
25/ 29	48	28	39	115	23.8	46	20	33	99	23.8	27	5	10	42	23.7
20/ 24	25	12	15	52	19.1	19	7	11	37	19	8	2	2	12	19.2
15/ 19	22	10	14	46	14.9	17	4	5	26	15	4	1	1	6	15.3
10/ 14	12	2	4	18	10.1	5	1	2	8	10.3	1		0	1	9.9
5/ 9	4	0	1	5	5.9	2	0	0	2	5.2	0		0	0	6.5
0/ 4	1	0	0	1	1.4	1		0	1	1.1	0			0	3
-5/ -1	0	0		0	-3.8										
-10/ -6	0			0	-6										

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)
105/109															
100/104												0	0	0	78.2
95/ 99							0	0	0	74.8		4	0	4	75.2
90/ 94		1	0	1	66.6		5	1	6	72.4	0	21	5	26	73.6
85/ 89		3	1	4	66.3	0	13	4	17	70.3	0	34	10	44	72.3
80/ 84	0	10	4	14	63.5	1	29	12	42	68.2	6	67	35	108	69.8
75/ 79	0	13	7	20	61.9	4	36	22	62	65.2	24	53	54	131	68.1
70/ 74	5	26	16	47	59.1	19	50	41	110	62.2	75	37	69	181	66.4
65/ 69	8	24	17	49	56.3	29	35	38	102	60.1	50	13	32	95	63
60/ 64	19	46	35	100	53	50	43	53	146	56.8	49	9	26	84	59.2
55/ 59	29	42	41	112	49.8	62	25	43	130	52.9	26	2	8	36	54.7
50/ 54	47	36	47	130	46.5	46	10	26	82	48.9	7	0	1	8	50.7
45/ 49	59	28	44	131	42.3	27	1	8	36	44.3	2		0	2	46
40/ 44	32	7	17	56	37.7	7		1	8	40.1					
35/ 39	29	3	9	41	34	2		0	2	36.6					
30/ 34	10	0	2	12	29.2	0			0	33.5					
25/ 29	2			2	25.1										
20/ 24	0			0	23										
15/ 19															
10/ 14															
5/ 9															
0/ 4															
-5/ -1															
-10/ -6															

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

	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)
105/109		0		0	77.7										
100/104		1	0	1	76.8		0		0	78.1					
95/ 99		12	3	15	76.3		5	1	6	76		1		1	75.5
90/ 94	0	41	12	53	74.6	0	26	6	32	74.6		8	1	9	72.6
85/ 89	2	51	21	74	73.2	0	41	13	54	72.9	0	17	3	20	72.2
80/ 84	15	78	55	148	71.2	7	87	47	141	71.1	1	42	16	59	69.8
75/ 79	59	43	72	174	70.3	41	57	70	168	70	11	59	34	104	68.1
70/ 74	104	17	62	183	68.2	97	25	73	195	68	47	58	64	169	65.9
65/ 69	38	4	16	58	64	52	6	27	85	64.2	47	28	42	117	62.3
60/ 64	26	1	6	33	60.2	41	1	12	54	60.5	60	21	47	128	58.7
55/ 59	5		0	5	55.5	9		1	10	55.7	38	4	21	63	54.1
50/ 54	0		0	0	52.5	1		0	1	51.7	24	1	9	34	50
45/ 49											9		2	11	45.5
40/ 44											2		0	2	41.7
35/ 39											0			0	39
30/ 34															
25/ 29															
20/ 24															
15/ 19															
10/ 14															
5/ 9															
0/ 4															
-5/ -1															
-10/ -6															

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)
105/109															
100/104															
95/ 99															
90/ 94		0	0	0	70.4										
85/ 89		2	0	2	70.9										
80/ 84		11	1	12	68.8		0		0	66.2					
75/ 79	1	19	6	26	66.4		2	0	2	64.2		0		0	63
70/ 74	9	37	18	64	63.6	0	11	2	13	60.6	0	2	0	2	61
65/ 69	11	37	23	71	60.3	2	13	6	21	58.9	1	3	2	6	60.7
60/ 64	32	58	47	137	56.7	8	30	17	55	55.5	4	7	5	16	56.8
55/ 59	39	43	48	130	51.9	17	37	26	80	51.2	6	13	8	27	51.6
50/ 54	50	28	48	126	48.1	29	49	37	115	46.7	9	28	15	52	46.6
45/ 49	50	10	36	96	43.8	41	51	51	143	41.8	22	49	33	104	41.9
40/ 44	28	2	14	44	40	33	24	37	94	37.5	26	38	36	100	38
35/ 39	24	1	6	31	36.2	48	18	38	104	33.6	47	51	53	151	33.2
30/ 34	5	0	1	6	31.4	38	5	18	61	29.2	54	32	52	138	28.8
25/ 29	0			0	27.9	19	1	6	26	24.8	46	15	29	90	24.1
20/ 24						4		1	5	20	17	6	9	32	19.7
15/ 19						1			1	17.8	11	2	5	18	15.7
10/ 14											3	0	1	4	10.9
5/ 9											1	0	0	1	7.1
0/ 4											0			0	3
-5/ -1															
-10/ -6															

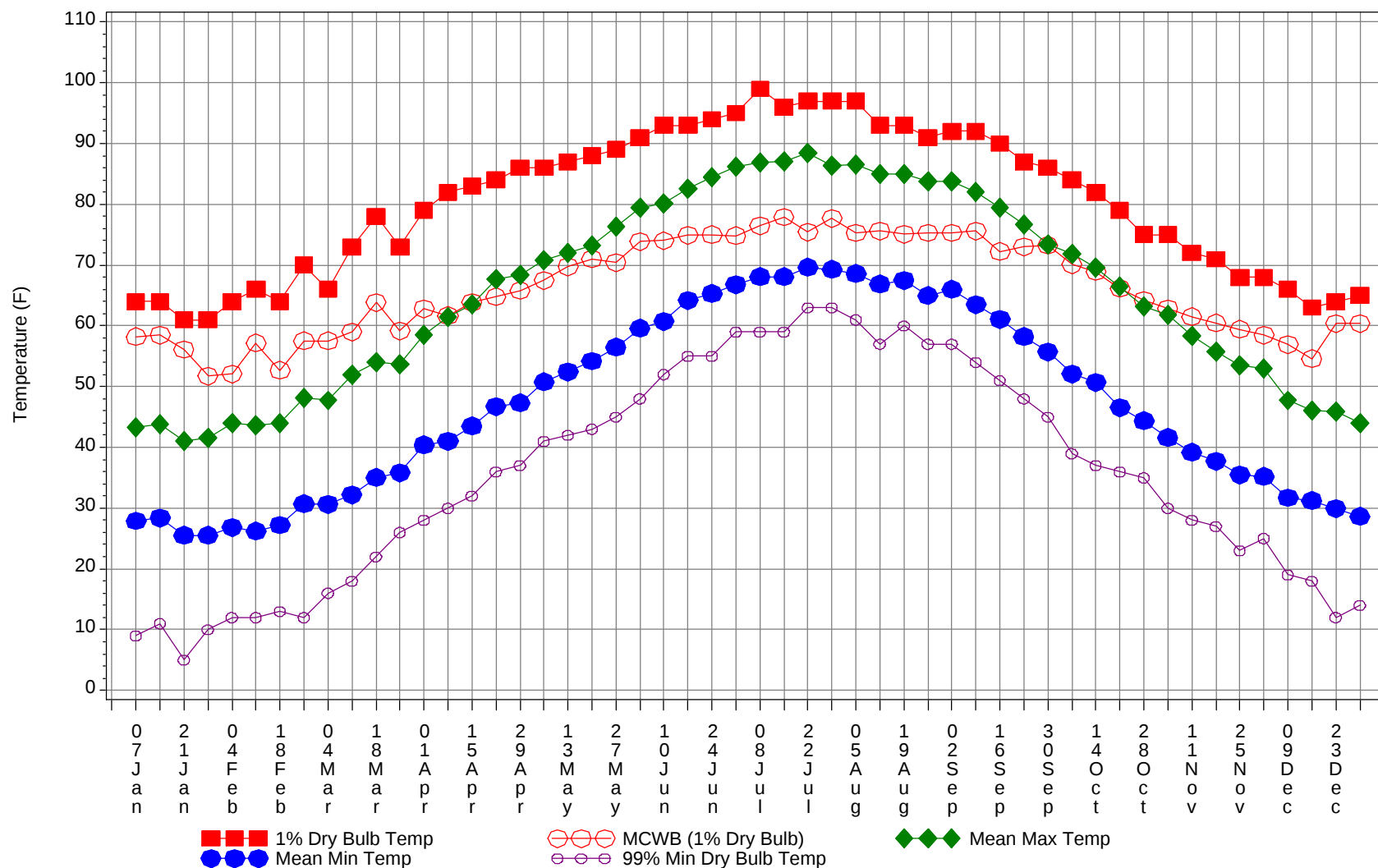
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

Dry-Bulb Temperature Hours For An Average Year

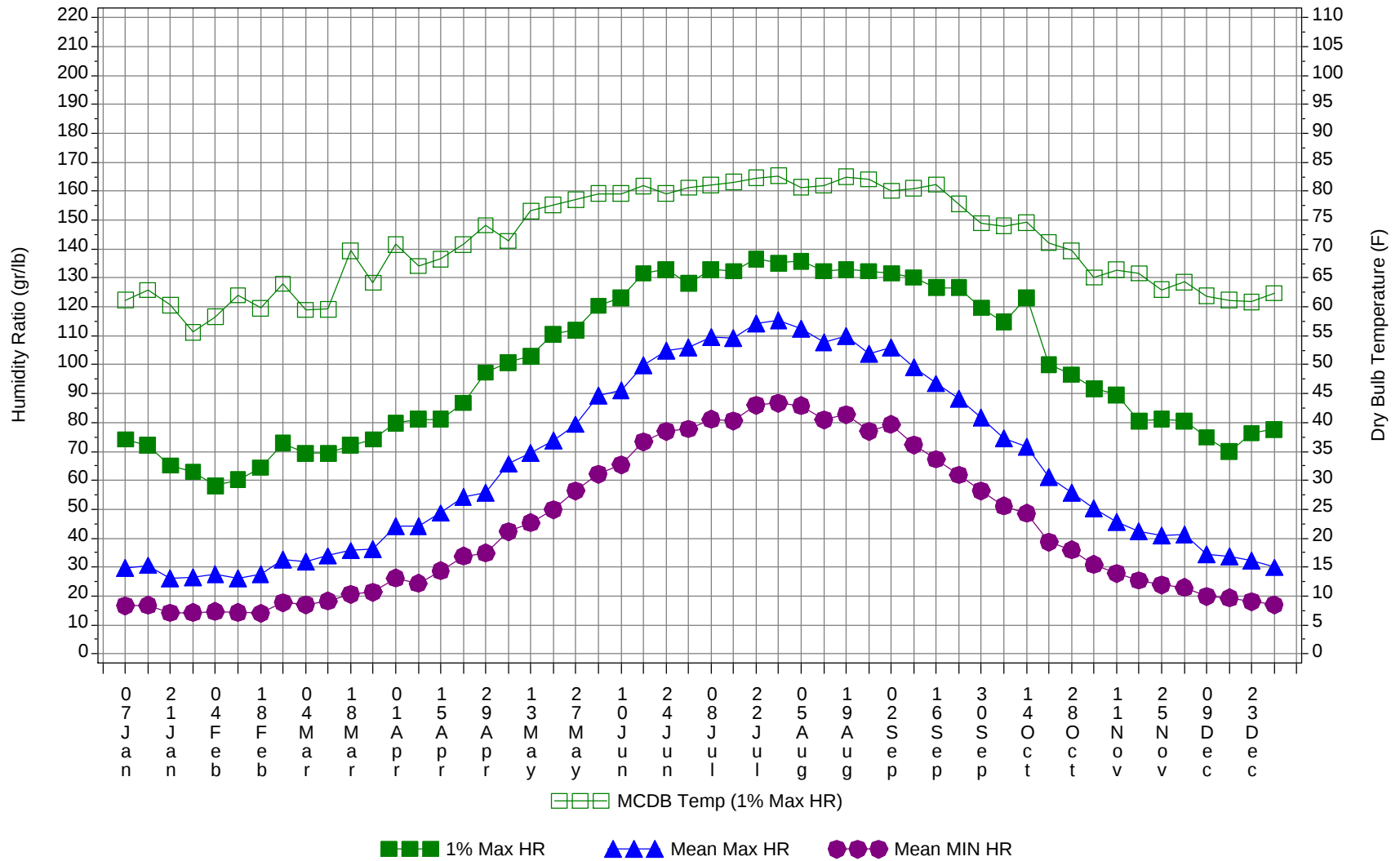
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109		0		0	77.7
100/104		2	0	2	77.2
95/ 99		22	4	26	76
90/ 94	0	103	25	128	74.1
85/ 89	3	160	52	215	72.5
80/ 84	30	326	170	526	70.2
75/ 79	140	285	267	692	68.5
70/ 74	356	275	349	980	65.7
65/ 69	241	178	210	629	61.4
60/ 64	298	252	270	820	56.9
55/ 59	246	212	230	688	51.7
50/ 54	241	225	237	703	47.1
45/ 49	274	261	277	812	42.1
40/ 44	200	171	198	569	37.8
35/ 39	287	200	249	736	33.4
30/ 34	257	131	192	580	28.8
25/ 29	188	69	117	374	23.9
20/ 24	72	27	39	138	19.2
15/ 19	55	16	26	97	15.1
10/ 14	20	3	7	30	10.2
5/ 9	7	1	1	9	5.9
0/ 4	2	0	0	2	1.4
-5/ -1	0	0		0	-3.8
-10/ -6	0			0	-6

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.

Annual Summary of Temperatures



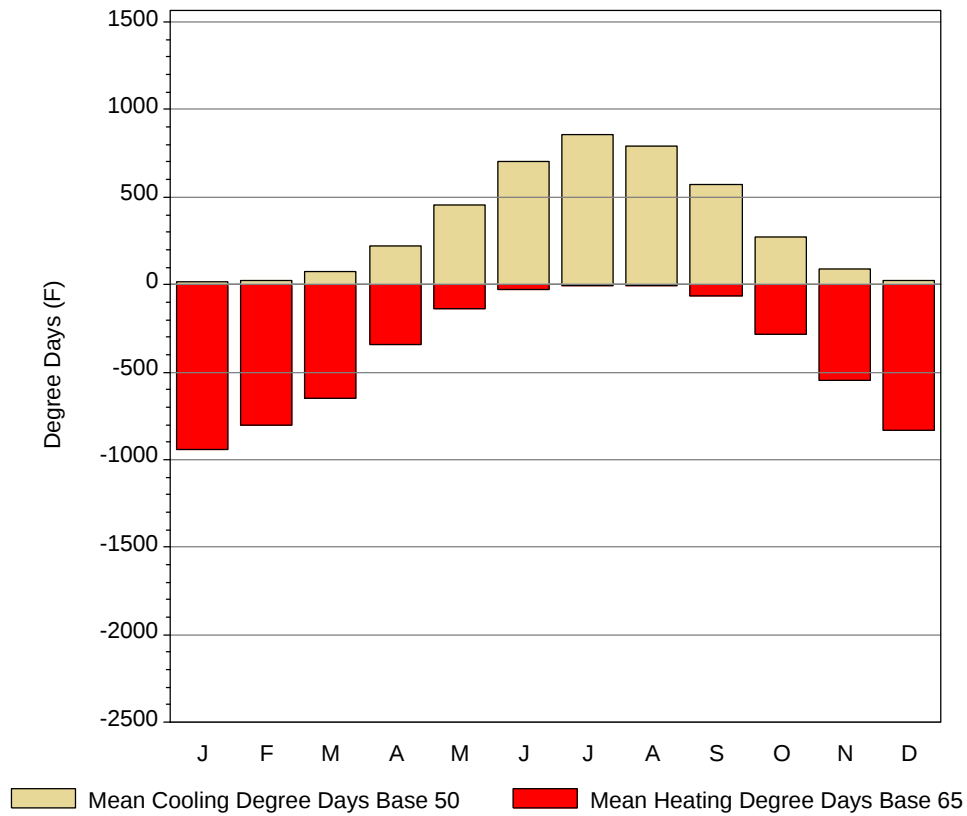
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

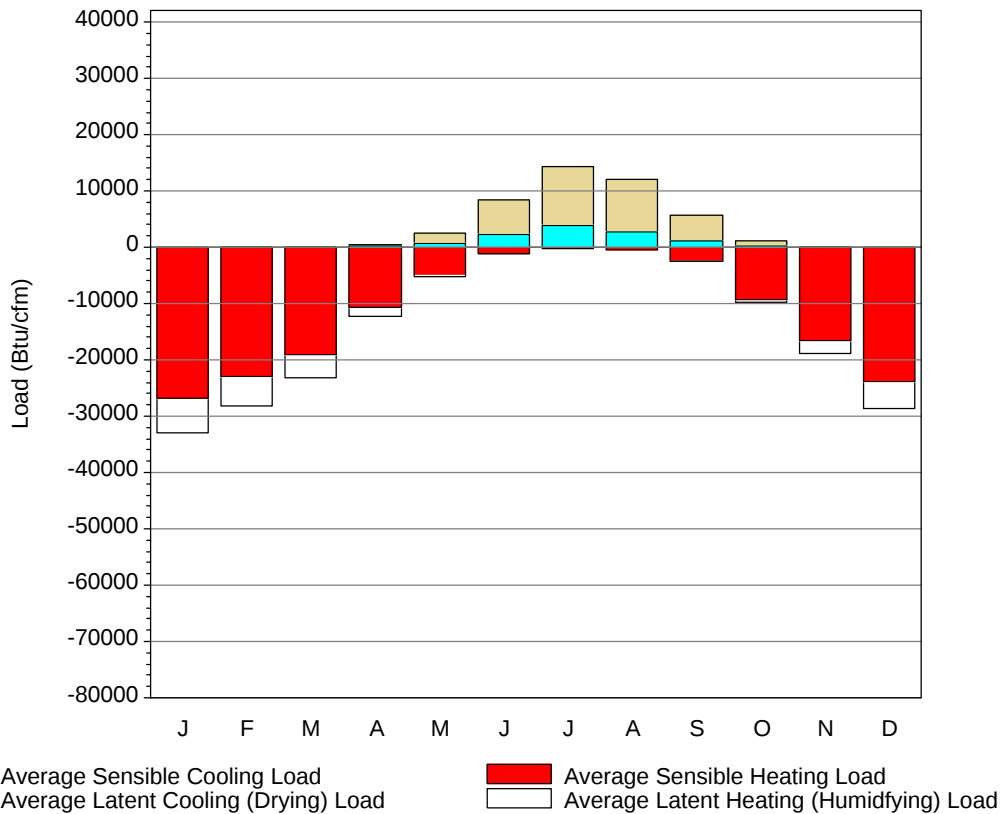
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	64	58.2	43.3	27.9	9	74.2	61.2	29.7	16.7
14-Jan	64	58.5	43.8	28.4	11	72.1	62.9	30.6	16.8
21-Jan	61	56.1	41	25.5	5	65.1	60.3	26.2	14.2
28-Jan	61	51.7	41.5	25.5	10	63	55.6	26.6	14.3
4-Feb	64	52.1	43.9	26.8	12	58.1	58.3	27.5	14.6
11-Feb	66	57.2	43.6	26.2	12	60.2	62	26.1	14.3
18-Feb	64	52.7	44	27.2	13	64.4	59.8	27.7	14
25-Feb	70	57.5	48.2	30.7	12	72.8	64	32.7	17.7
4-Mar	66	57.5	47.7	30.6	16	69.3	59.5	31.8	17
11-Mar	73	59	52	32.2	18	69.3	59.6	33.9	18.2
18-Mar	78	63.8	54	35	22	72.1	69.7	35.7	20.6
25-Mar	73	59.2	53.7	35.8	26	74.2	64.2	36.2	21.4
1-Apr	79	62.8	58.5	40.4	28	79.8	70.8	44.3	26.2
8-Apr	82	61.7	61.4	41	30	81.2	67.1	44.2	24.4
15-Apr	83	63.8	63.5	43.5	32	81.2	68.3	48.7	28.7
22-Apr	84	64.8	67.6	46.7	36	86.8	70.8	54.4	33.8
29-Apr	86	65.8	68.3	47.3	37	97.3	74.1	55.7	34.9
6-May	86	67.5	70.8	50.8	41	100.8	71.4	65.7	42.2
13-May	87	69.7	72	52.4	42	102.9	76.6	69.4	45.3
20-May	88	71	73.3	54.2	43	110.6	77.6	73.8	49.9
27-May	89	70.4	76.3	56.5	45	112	78.6	79.4	56.4
4-Jun	91	73.9	79.4	59.6	48	120.4	79.6	89.4	62.2
10-Jun	93	74	80.1	60.7	52	123.2	79.6	91.2	65.4
17-Jun	93	74.9	82.5	64.2	55	131.6	80.9	99.7	73.3
24-Jun	94	75	84.5	65.3	55	133	79.6	104.9	76.9
1-Jul	95	74.8	86.2	66.8	59	128.1	80.6	105.9	77.8
8-Jul	99	76.5	86.9	68.1	59	133	81.1	109.6	81.2
15-Jul	96	77.9	87	68.1	59	132.3	81.6	109.1	80.6
22-Jul	97	75.4	88.4	69.6	63	136.5	82.3	114.3	86
29-Jul	97	77.7	86.4	69.3	63	135.1	82.7	115.3	86.7
5-Aug	97	75.3	86.6	68.6	61	135.8	80.7	112.5	85.8
12-Aug	93	75.6	84.9	66.9	57	132.3	81	107.9	81
19-Aug	93	75.1	85	67.5	60	133	82.5	109.9	82.7
26-Aug	91	75.3	83.7	65	57	132.3	82.1	103.9	76.9
2-Sep	92	75.3	83.8	66	57	131.6	80.1	105.9	79.4
9-Sep	92	75.6	82.1	63.5	54	130.2	80.5	99.1	72.2
16-Sep	90	72.2	79.4	61.1	51	126.7	81.2	93.5	67.3
23-Sep	87	73	76.6	58.2	48	126.7	77.8	88.3	61.9
30-Sep	86	73.3	73.4	55.7	45	119.7	74.5	81.8	56.3
7-Oct	84	70.1	71.8	52.1	39	114.8	74	74.4	51.1
14-Oct	82	68.9	69.6	50.7	37	123.2	74.6	71.6	48.6
21-Oct	79	66.2	66.4	46.5	36	100.1	71.1	61.2	38.7
28-Oct	75	64.2	63.2	44.4	35	96.6	69.7	55.7	35.9
4-Nov	75	62.8	61.8	41.6	30	91.7	65.1	50.3	30.9
11-Nov	72	61.5	58.3	39.2	28	89.6	66.4	45.7	27.8
18-Nov	71	60.5	55.8	37.7	27	80.5	65.8	42.4	25.4
25-Nov	68	59.4	53.5	35.5	23	81.2	63	40.9	23.9
2-Dec	68	58.5	53	35.2	25	80.5	64.3	41.2	23
9-Dec	66	56.9	47.7	31.7	19	74.9	61.9	34.3	19.9
16-Dec	63	54.6	46	31.2	18	70	61.2	33.6	19.4
23-Dec	64	60.4	45.9	29.9	12	76.3	60.9	32.3	18.1
31-Dec	65	60.4	43.9	28.6	14	77.7	62.4	29.9	16.9

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	17.5	0.4	943.2
FEB	22.6	1.5	800
MAR	77.2	9.7	650.5
APR	220.1	41.6	339
MAY	454.9	121.4	139.5
JUN	702.5	277.5	25.2
JUL	859.2	398.5	4.3
AUG	794.4	337.8	8.4
SEP	569.4	178.7	61.1
OCT	273	45.7	284.4
NOV	88.3	6.2	549.4
DEC	25.6	1.1	828.8
ANN	4104.7	1420.1	4633.8

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	-26851	4	-6010
FEB	1	-22910	4	-5280
MAR	34	-19167	9	-3975
APR	218	-10747	153	-1459
MAY	772	-5059	1664	-133
JUN	2240	-1172	6208	-1
JUL	3778	-297	10610	0
AUG	2793	-522	9373	0
SEP	1056	-2509	4577	-1
OCT	163	-9315	1007	-363
NOV	6	-16488	88	-2468
DEC	0	-23875	18	-4693
ANN	11061	-138912	33715	-24383

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	BALTIMORE, MD 93721	Window:	1.000
Lat, Lon, Elev	39.18N 76.67W 154ft	Overhang:	0.510
Press, Stn Type	14.7psia Secondary	Vert Gap:	0.317

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	650	910	1230	1550	1780	1950	1910	1690	1390	1050	710	560	1280
	Std.Dev.	46	70	92	134	131	115	120	85	104	85	62	40	34
	Minimum	550	760	1070	1230	1570	1740	1680	1500	1170	910	560	480	1210
	Maximum	750	1020	1410	1830	2050	2180	2140	1810	1570	1240	830	620	1360
	Diffuse	300	410	530	680	800	850	820	750	600	440	320	270	560
Clear Day	Global	930	1280	1740	2200	2490	2580	2500	2230	1820	1350	960	810	1740
NORTH	Global	200	260	340	430	530	610	570	470	380	290	210	180	370
	Diffuse	200	260	340	420	490	530	510	450	380	290	210	180	350
Clear Day	Global	190	240	320	430	570	670	620	480	370	280	200	160	380
EAST	Global	440	590	750	910	990	1070	1050	950	830	660	480	380	760
	Diffuse	240	320	410	510	580	630	610	560	470	360	260	210	430
Clear Day	Global	700	900	1130	1320	1410	1420	1380	1290	1130	900	700	620	1080
SOUTH	Global	1050	1130	1090	950	810	770	800	920	1060	1170	1050	950	980
	Diffuse	340	410	470	520	550	570	560	560	520	440	350	310	470
Clear Day	Global	1910	1950	1770	1390	1050	910	960	1210	1550	1790	1820	1820	1510
WEST	Global	450	590	760	900	980	1060	1040	950	830	660	470	390	760
	Diffuse	240	320	420	520	590	630	620	570	470	360	260	210	430
Clear Day	Global	700	900	1130	1320	1410	1420	1380	1290	1130	900	700	620	1080

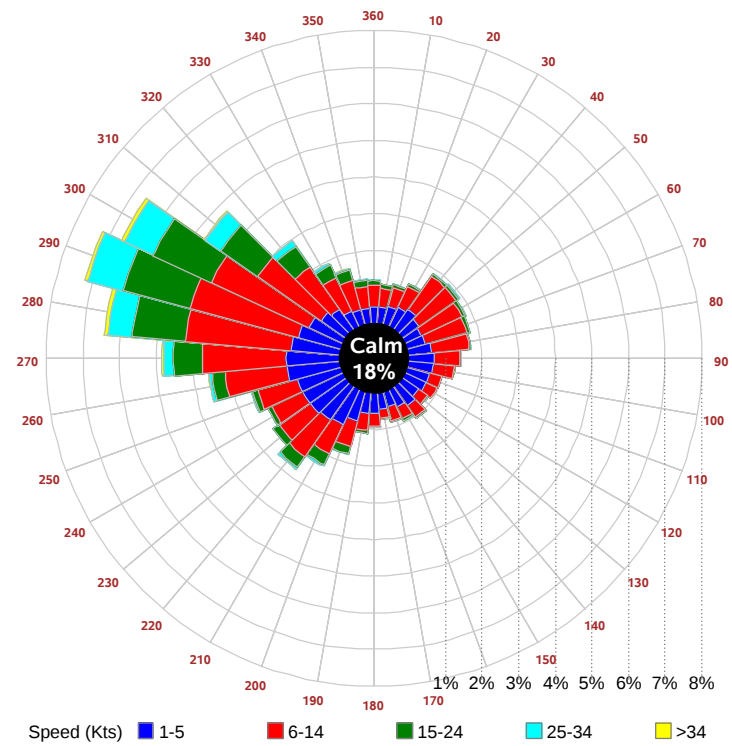
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	420	620	870	1120	1290	1420	1390	1220	990	730	470	360	910
NORTH	Unshaded	140	180	230	290	350	400	380	320	260	200	150	120	250
	Shaded	120	160	210	260	310	350	340	290	230	180	130	110	220
EAST	Unshaded	300	410	530	650	700	760	740	680	590	470	330	260	530
	Shaded	270	370	470	560	600	640	630	580	510	410	300	240	470
SOUTH	Unshaded	790	820	760	620	500	470	490	580	720	840	780	720	670
	Shaded	770	770	600	410	340	350	350	380	520	740	760	700	560
WEST	Unshaded	310	410	540	640	700	750	740	680	590	470	320	260	530
	Shaded	280	370	480	560	600	640	630	580	510	410	290	240	470

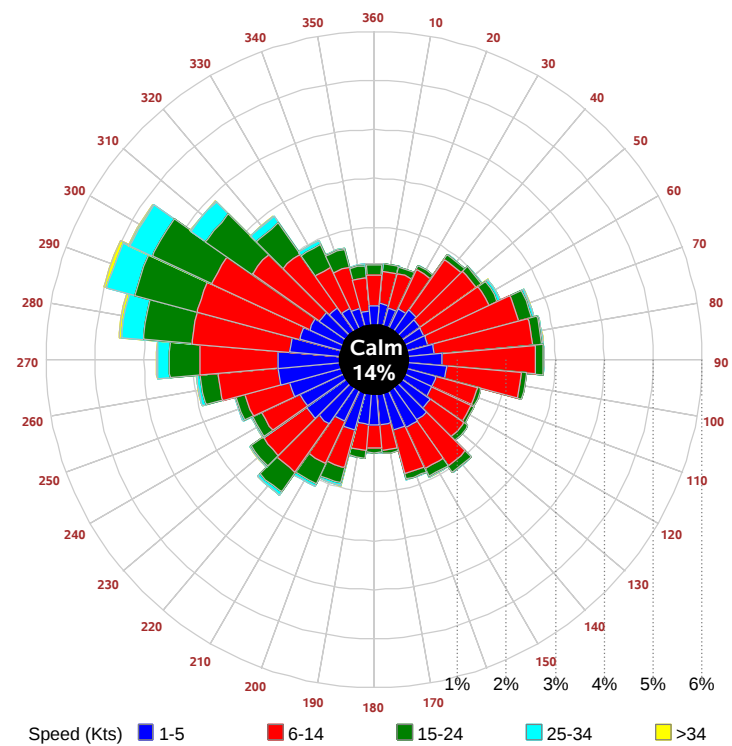
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	38	71	81	65	28	45	82	99	94	67	
	M.Cloudy	22	42	49	40	16	28	54	69	67	46	
NORTH	M.Clear	9	14	15	13	8	19	17	17	17	16	
	M.Cloudy	9	14	16	14	7	13	17	19	19	15	
EAST	M.Clear	73	57	15	13	8	73	72	33	17	16	
	M.Cloudy	26	30	16	14	7	32	42	27	19	15	
SOUTH	M.Clear	38	71	81	65	28	12	31	45	42	21	
	M.Cloudy	16	35	41	32	12	11	23	34	32	18	
WEST	M.Clear	9	14	21	65	66	12	17	17	50	76	
	M.Cloudy	9	14	18	32	22	11	17	19	37	44	
M.Clear	(% hrs)	35	32	33	33	39	43	42	38	35	39	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	26	65	83	77	47	14	40	46	29	3	
	M.Cloudy	15	38	54	51	30	8	23	26	17	2	
NORTH	M.Clear	8	14	16	16	12	5	10	10	8	2	
	M.Cloudy	7	14	17	17	11	4	9	10	7	1	
EAST	M.Clear	59	69	30	16	12	39	39	10	8	2	
	M.Cloudy	19	31	23	17	11	10	17	10	7	1	
SOUTH	M.Clear	19	55	73	66	38	36	79	87	63	7	
	M.Cloudy	9	27	42	39	20	10	27	31	20	2	
WEST	M.Clear	8	14	16	51	70	5	10	20	48	10	
	M.Cloudy	7	14	17	32	32	4	9	13	16	3	
M.Clear	(% hrs)	45	46	40	39	43	33	34	32	35	37	

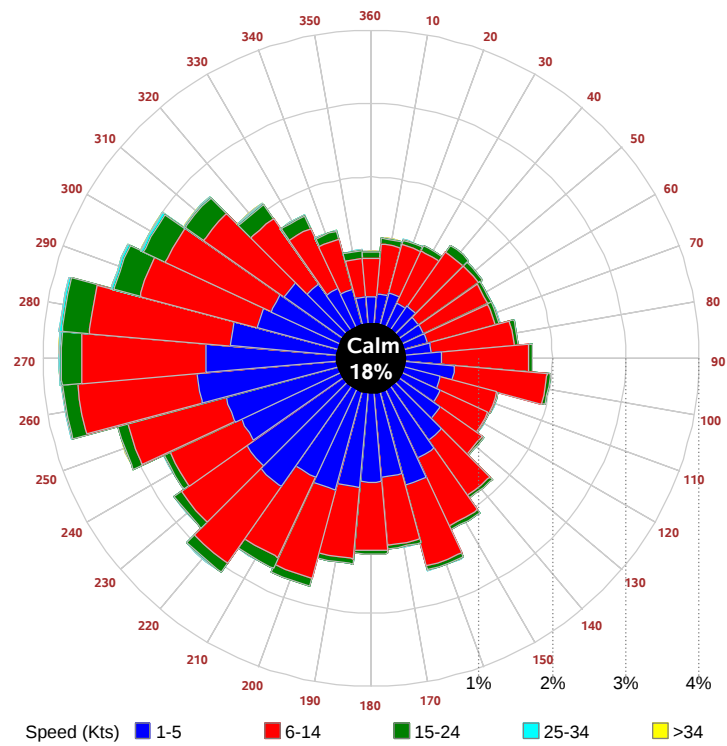
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

