WILKES BARRE SCRANTON IN, PA	
Latitude = 41.34 N	Station ID = ICAO_KAVP
Longitude = 75.72 W	Elevation = 962 Feet
Period of Record = 1988 To 2017	Average Pressure = 29.02 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	93	73	96	10.5	WSW
0.4% Occurrence	90	72	94	9.8	WSW
1.0% Occurrence	87	71	90	9.3	WSW
2.0% Occurrence	84	69	87	8.8	SW
Mean Daily Range	17	-	-	-	SW
97.5% Occurrence	14	12	7	8.5	SW
99.0% Occurrence	9	8	6	7.7	WSW
99.6% Occurrence	4	3	4	8.1	N
Median of Extreme Lows	0	-1	4	6.6	N

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	77	87	124	9.1	SW
0.4% Occurrence	75	84	117	8.1	SW
1.0% Occurrence	73	81	111	7.4	SW
2.0% Occurrence	72	80	107	7.1	SW

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	135	83	0.87	6.8	WSW
0.4% Occurrence	122	79	0.78	6.6	SW
1.0% Occurrence	115	77	0.74	6.6	SW
2.0% Occurrence	113	77	0.73	5.5	SW

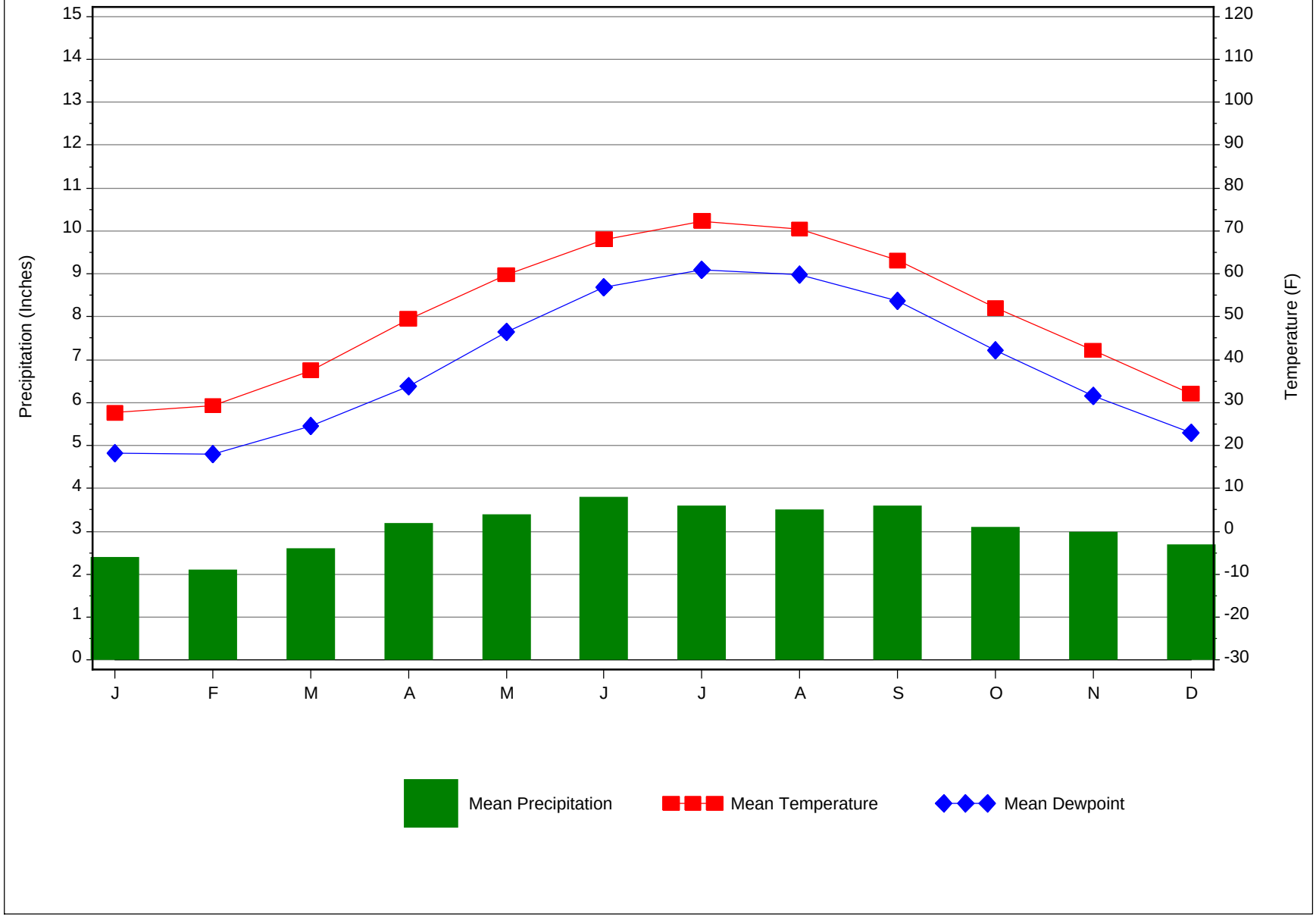
Air Conditioning/ Humid Area Criteria	**Threshold**	**T ≥ 93°F**	**T ≥ 80°F**	**Twb ≥ 73°F**	**Twb ≥ 67°F**
	# of Hours	12	434	130	890

Other Site Data

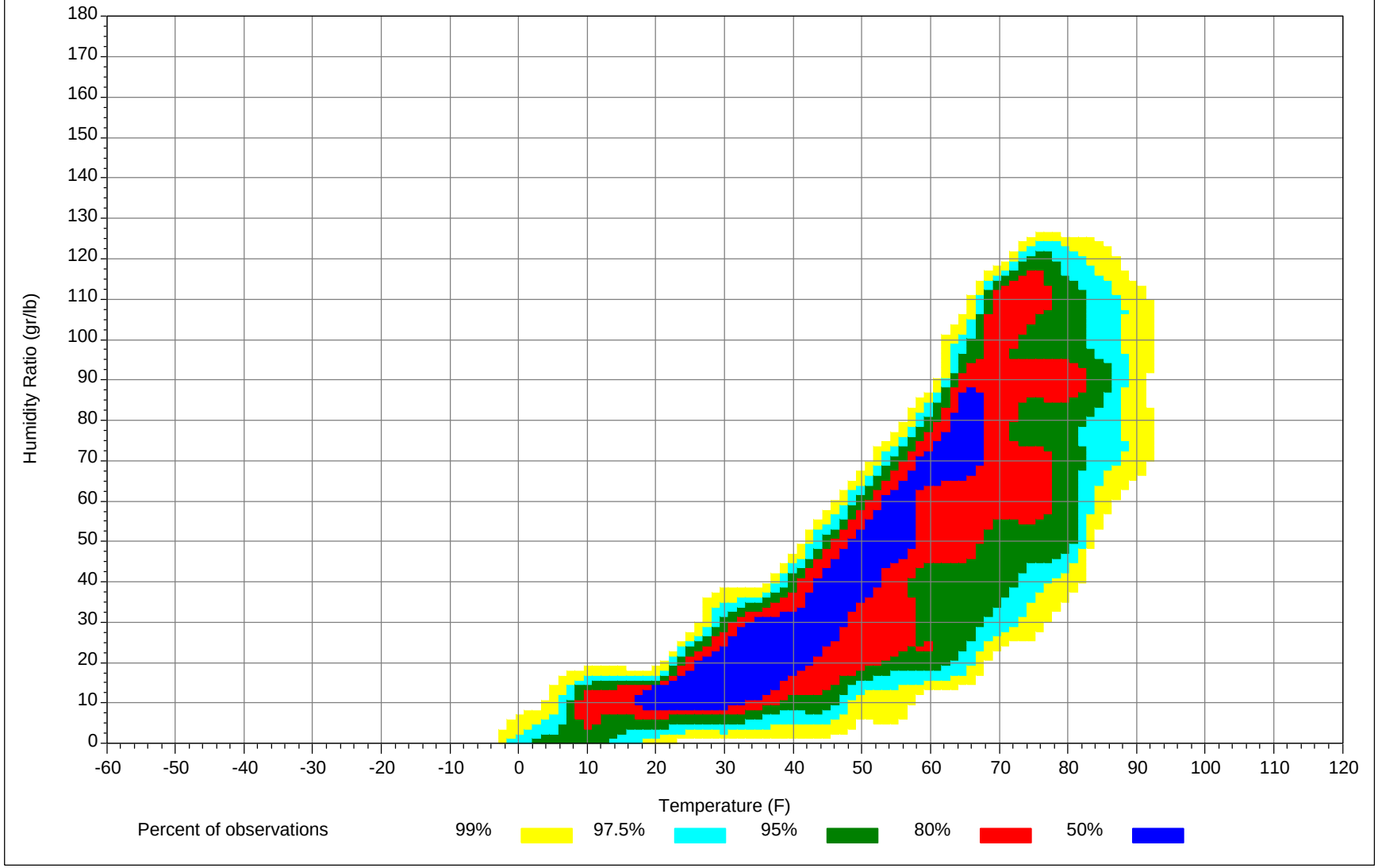
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
6	2.8	90	1.2 + 0.4
Ground Water Temperature (°F) 50 Foot Depth*	Frost Depth 50 Year Recurrence (in)	Ground Snow Load 50 Year Recurrence (lb/ft^2)	Average Annual Freeze-Thaw Cycles (#)
52.9	52	25	59

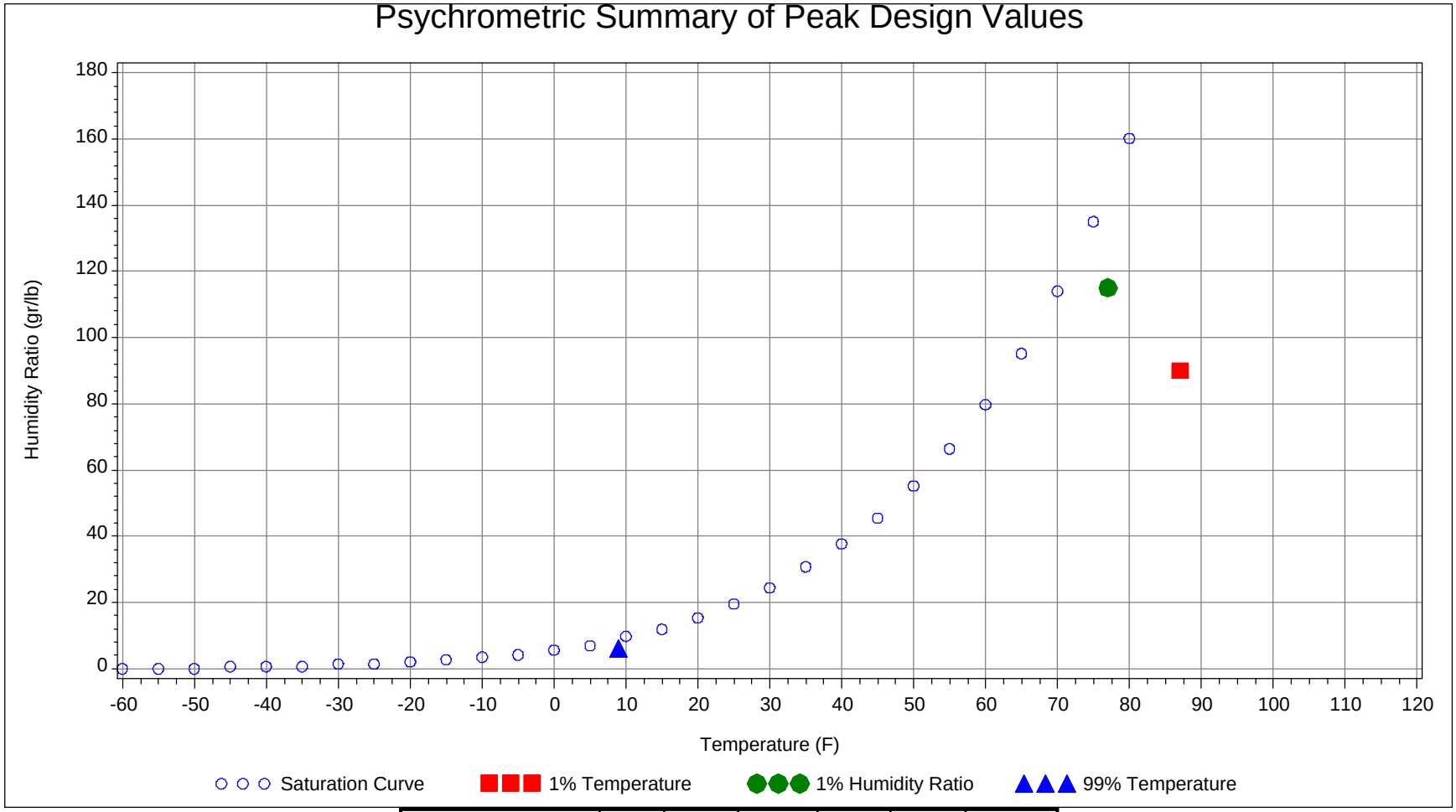
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

Average Annual Climate



Long Term Psychrometric Summary





	(°F) / (gr/lb)	MCDB (°F)	MCWB (°F)	MCDP (°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
1.0% Dry Bulb	87.0		71		90.0	35.4
99.0% Dry Bulb	9.0				6.0	3.0
1.0% Humidity Ratio	115.0	77.0	71.9	70.0		36.4

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**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
100/104															
95/ 99															
90/ 94															
85/ 89												0		0	64
80/ 84												0	0	0	62.4
75/ 79							0		0	62		1	0	1	60.2
70/ 74							0	0	0	59.9	0	4	2	6	58
65/ 69		0	0	0	59.1		0	0	0	58	0	5	3	8	54.8
60/ 64	1	2	1	4	57.3	0	2	1	3	52.4	2	11	8	21	51.5
55/ 59	2	3	3	8	52.3	1	3	2	6	48.6	5	13	12	30	48.5
50/ 54	3	7	5	15	47.4	2	8	5	15	44.9	12	21	20	53	44.8
45/ 49	5	12	9	26	42.2	6	15	12	33	40.6	18	31	28	77	40.4
40/ 44	10	19	14	43	38.1	11	19	16	46	37.3	19	30	29	78	36.9
35/ 39	30	39	36	105	33.6	27	42	37	106	33	51	56	51	158	33.1
30/ 34	40	48	49	137	29	38	44	45	127	28.6	47	36	45	128	28.4
25/ 29	44	44	46	134	24	45	40	44	129	23.6	43	23	29	95	23.6
20/ 24	29	25	26	80	19.5	26	21	22	69	19	22	9	11	42	19.1
15/ 19	33	26	29	88	15.3	30	18	21	69	15.1	17	5	7	29	15.1
10/ 14	22	13	16	51	10.2	21	8	11	40	10	8	2	3	13	10.1
5/ 9	14	8	8	30	5.8	10	3	4	17	5.6	3	0	1	4	5.5
0/ 4	10	2	4	16	1	6	1	1	8	1.1	1	0		1	1.3
-5/ -1	2	0	1	3	-3.6	1	0	0	1	-3.6	0			0	-2.7
-10/ -6	1	0	0	1	-7.2	0	0		0	-6.8					
-15/-11	0	0	0	0	-12.5										
-20/-16	0	0		0	-16										
-25/-21	0			0	-20										

Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure 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**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
100/104															
95/ 99															
90/ 94		0	0	0	64.7		1	0	1	71.2	0	4	1	5	73.3
85/ 89		1	0	1	64.2	0	7	2	9	67.6	0	13	4	17	71.1
80/ 84		4	1	5	61.6	0	18	8	26	65.6	1	43	18	62	68.4
75/ 79	0	8	4	12	59.3	1	25	14	40	63.2	7	55	33	95	65.9
70/ 74	1	13	9	23	57	7	37	26	70	60.4	33	57	56	146	64.3
65/ 69	3	17	11	31	54.1	15	32	27	74	57.8	45	30	47	122	61.9
60/ 64	10	31	25	66	51.3	35	53	51	139	55.3	64	25	45	134	58.2
55/ 59	17	35	34	86	48.3	49	39	49	137	51.5	47	10	25	82	53.9
50/ 54	29	41	39	109	44.8	56	25	41	122	47.6	30	2	9	41	49.4
45/ 49	47	40	46	133	41	51	10	22	83	43.1	11	0	1	12	44.9
40/ 44	39	25	29	93	37.6	21	1	6	28	39.1	1		0	1	40.4
35/ 39	52	18	28	98	33.5	11	0	2	13	35.3	0			0	37
30/ 34	29	5	10	44	28.8	1		0	1	31.6					
25/ 29	10	1	2	13	24.2	0			0	28					
20/ 24	2	0	0	2	19.5										
15/ 19	0		0	0	15.6										
10/ 14															
5/ 9															
0/ 4															
-5/ -1															
-10/ -6															
-15/-11															
-20/-16															
-25/-21															

Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure 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**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
100/104		0	0	0	71.5										
95/ 99		2	0	2	73.2		1	0	1	72.9		0		0	77
90/ 94	0	13	4	17	72.7	0	8	2	10	72.9	0	2	0	2	70.1
85/ 89	1	28	10	39	71.2	0	17	5	22	71	0	5	1	6	69.9
80/ 84	3	66	30	99	69	1	55	22	78	68.7	0	20	6	26	67.8
75/ 79	16	67	51	134	67.3	10	66	45	121	67	2	34	15	51	65.9
70/ 74	64	48	75	187	65.9	47	63	74	184	65.6	19	55	40	114	64.1
65/ 69	61	17	40	118	63.4	59	24	45	128	63.2	28	40	37	105	61.2
60/ 64	63	7	31	101	59.4	73	13	40	126	59.4	52	47	59	158	57.9
55/ 59	29	1	6	36	54.7	38	2	13	53	54.7	52	24	42	118	53.4
50/ 54	10		1	11	50.3	17	0	2	19	50.7	42	9	26	77	49.4
45/ 49	2		0	2	45.9	3		0	3	46.5	30	2	11	43	44.9
40/ 44						0			0	42.5	9	0	2	11	41
35/ 39											5	0	1	6	36.9
30/ 34											0		0	0	31.9
25/ 29											0			0	28
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 distribtion of temperature in a typical year. It does not reflect the typical mositure 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**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
100/104															
95/ 99															
90/ 94															
85/ 89		0		0	69										
80/ 84		2	0	2	67.5										
75/ 79	0	9	1	10	64.6		0		0	59.8					
70/ 74	3	22	8	33	61.9	0	3	0	3	59.3		0	0	0	63
65/ 69	6	24	14	44	59.1	1	5	2	8	58.1	0	1	0	1	59.8
60/ 64	16	43	33	92	55.7	5	16	10	31	55.3	1	2	1	4	56.5
55/ 59	31	42	39	112	51.5	11	23	19	53	50.9	3	5	4	12	52.4
50/ 54	41	47	49	137	47.2	21	35	28	84	46.6	6	10	7	23	47.6
45/ 49	57	38	51	146	42.9	32	42	38	112	41.6	11	20	15	46	42.5
40/ 44	33	15	25	73	38.8	28	40	34	102	37.5	17	29	23	69	38.2
35/ 39	38	7	21	66	35.1	54	44	54	152	33.4	39	54	51	144	33.7
30/ 34	20	1	6	27	31	50	22	36	108	29	52	48	54	154	28.9
25/ 29	3	0	0	3	26.8	25	8	14	47	24.5	50	41	45	136	24
20/ 24	0			0	22.3	8	2	4	14	19.9	24	17	22	63	19.6
15/ 19						5	0	1	6	16	23	14	17	54	15.4
10/ 14						1		0	1	11.7	14	5	7	26	10.5
5/ 9						0			0	8	4	1	2	7	6.1
0/ 4											2	0	0	2	1.3
-5/ -1											1	0		1	-3.1
-10/ -6											0			0	-6.4
-15/-11															
-20/-16															
-25/-21															

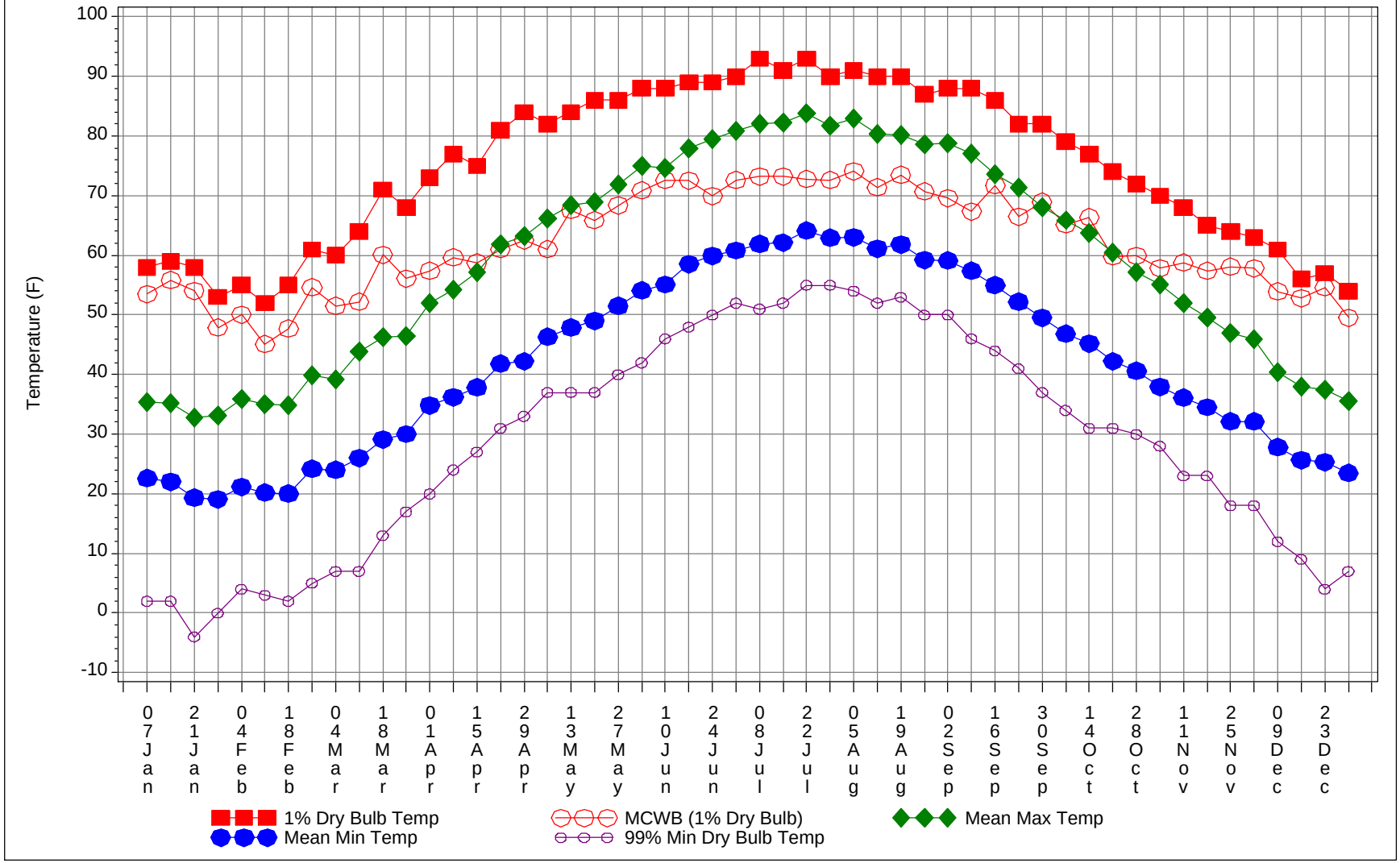
Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

Dry-Bulb Temperature Hours For An Average Year

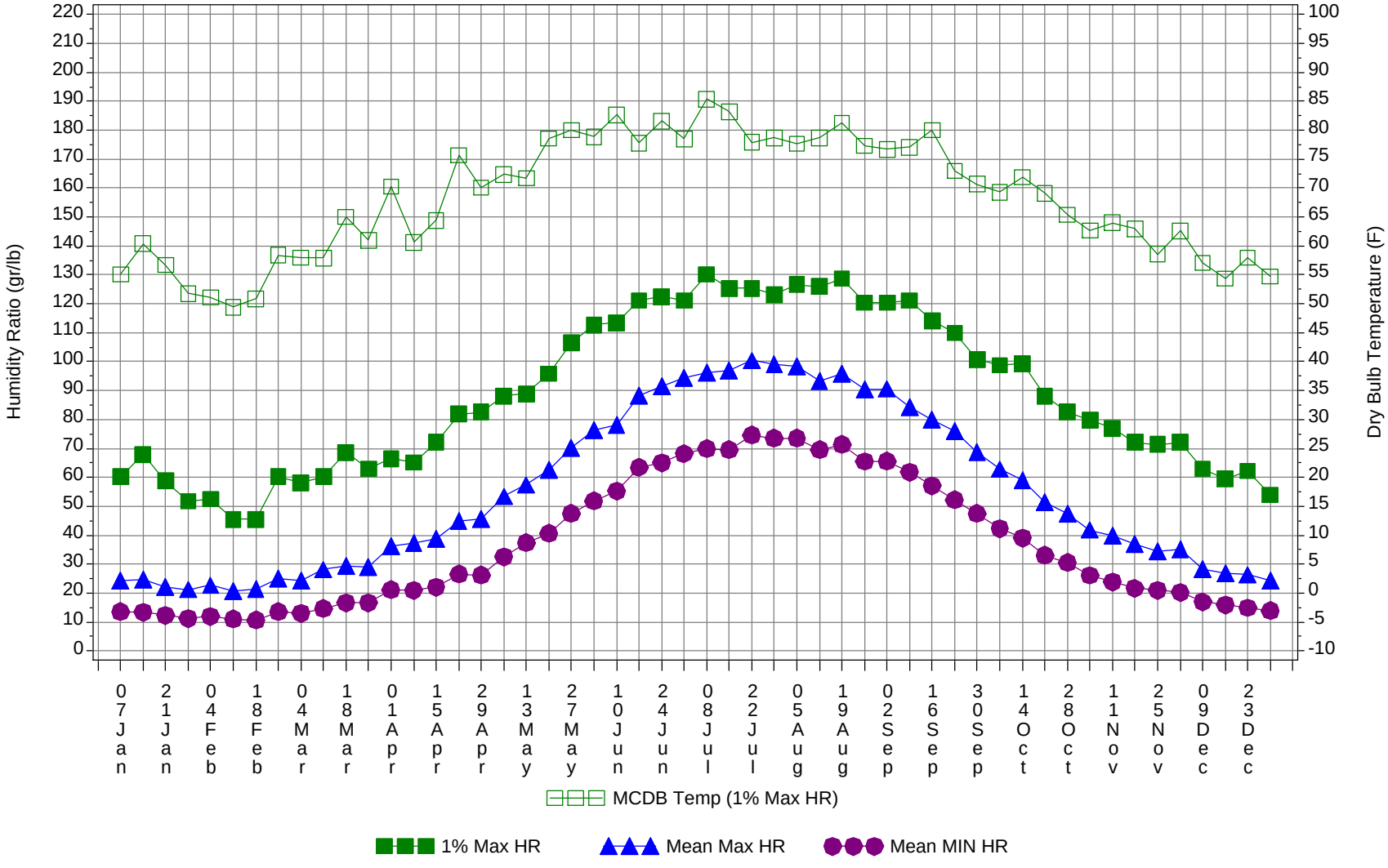
	Annual				
Temperature Range (°F)	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
100/104		0	0	0	71.5
95/ 99		2	0	2	73.2
90/ 94	0	28	7	35	72.6
85/ 89	1	72	23	96	70.6
80/ 84	5	209	86	300	68.2
75/ 79	37	265	164	466	66.1
70/ 74	174	301	291	766	64.2
65/ 69	217	194	226	637	61.1
60/ 64	323	252	302	877	56.9
55/ 59	285	200	247	732	51.9
50/ 54	269	203	233	705	47.1
45/ 49	270	211	233	714	42.1
40/ 44	190	179	179	548	37.9
35/ 39	309	262	280	851	33.6
30/ 34	279	204	244	727	28.9
25/ 29	221	158	182	561	23.9
20/ 24	111	74	86	271	19.4
15/ 19	109	63	77	249	15.3
10/ 14	65	27	36	128	10.2
5/ 9	31	13	15	59	5.8
0/ 4	18	4	6	28	1
-5/ -1	4	1	1	6	-3.5
-10/ -6	1	0	0	1	-7
-15/-11	0	0	0	0	-12.5
-20/-16	0	0		0	-16
-25/-21	0			0	-20

Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure 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



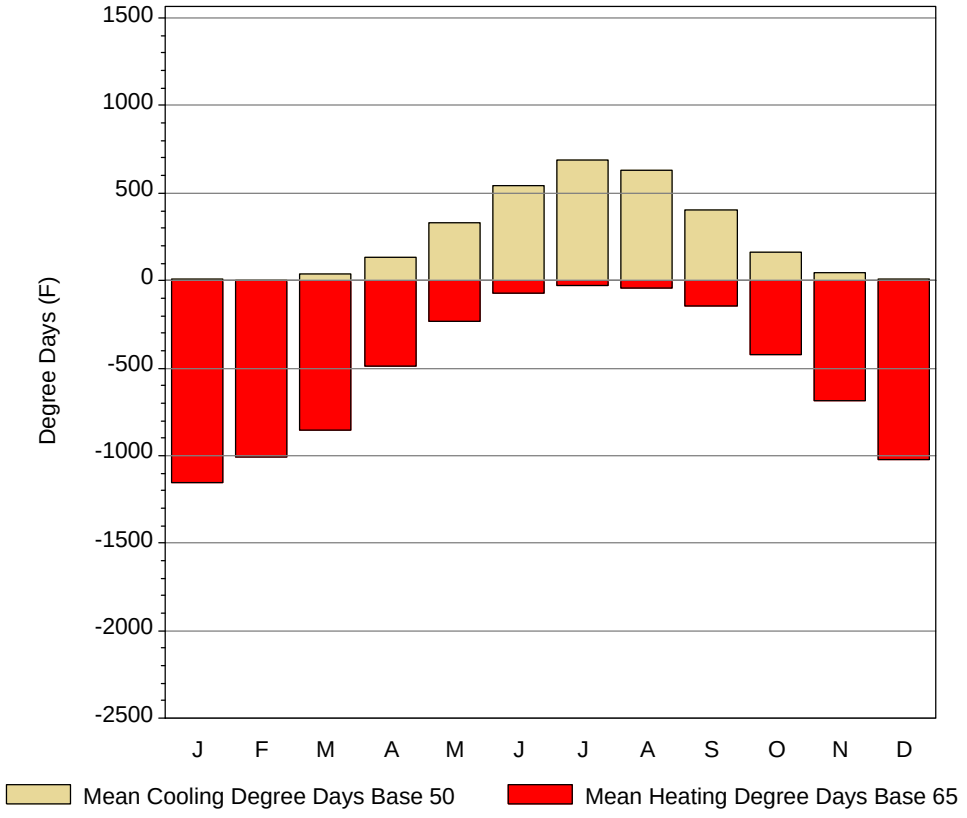
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

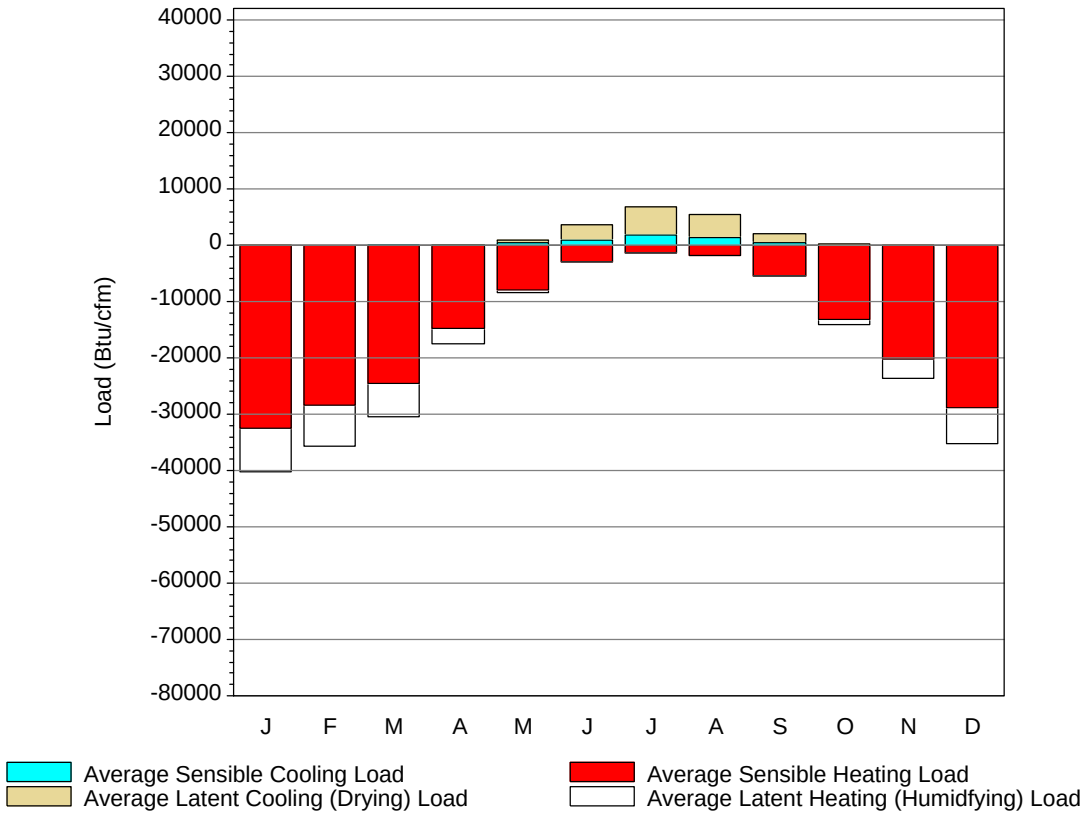
Week Ending	1.0% Temp (°F)	MCWB@ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB@ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	58	53.5	35.3	22.6	2	60.2	55.1	24.4	13.5
14-Jan	59	55.8	35.2	22	2	67.9	60.4	24.6	13.4
21-Jan	58	54	32.8	19.3	-4	58.8	56.7	22	12.3
28-Jan	53	47.9	33.1	19.1	0	51.8	51.8	21.2	11.2
4-Feb	55	50	35.8	21.1	4	52.5	51.1	22.7	12
11-Feb	52	45.1	35	20.2	3	45.5	49.4	20.7	11
18-Feb	55	47.7	34.8	20	2	45.5	50.9	21.5	10.7
25-Feb	61	54.6	39.8	24.2	5	60.2	58.4	25.1	13.6
4-Mar	60	51.5	39.2	24	7	58.1	58	24.3	13
11-Mar	64	52.2	43.8	26	7	60.2	57.9	28.1	14.7
18-Mar	71	60.1	46.2	29.1	13	68.6	65	29.4	16.7
25-Mar	68	56.1	46.4	30	17	63	61	29	16.6
1-Apr	73	57.4	51.9	34.8	20	66.5	70.3	36.2	21.1
8-Apr	77	59.6	54.3	36.2	24	65.1	60.6	37.2	21
15-Apr	75	58.8	57.2	37.8	27	72.1	64.4	38.8	22
22-Apr	81	61	61.9	41.8	31	81.9	75.7	44.8	26.6
29-Apr	84	62.5	63.2	42.2	33	82.6	70.1	45.7	26.2
6-May	82	61	66.2	46.3	37	88.2	72.4	53.4	32.6
13-May	84	67.6	68.4	47.9	37	88.9	71.7	57.4	37.4
20-May	86	65.9	69	49	37	95.9	78.6	62.6	40.7
27-May	86	68.4	71.8	51.5	40	106.4	80	70.2	47.5
4-Jun	88	70.9	75	54.1	42	112.7	78.9	76.4	51.9
10-Jun	88	72.6	74.6	55.1	46	113.4	82.7	78.2	55.3
17-Jun	89	72.5	77.9	58.5	48	121.1	77.8	88.2	63.5
24-Jun	89	69.9	79.5	59.9	50	122.5	81.6	91.6	65.1
1-Jul	90	72.6	80.8	60.8	52	121.1	78.5	94.4	68.2
8-Jul	93	73.2	82	61.9	51	130.2	85.4	96.1	69.9
15-Jul	91	73.2	82.3	62.1	52	125.3	83.2	96.9	69.5
22-Jul	93	72.8	83.8	64.1	55	125.3	77.9	100.4	74.6
29-Jul	90	72.6	81.8	62.9	55	123.2	78.7	99	73.6
5-Aug	91	74.1	83	63	54	126.7	77.7	98.5	73.6
12-Aug	90	71.4	80.3	61.1	52	126	78.7	93.3	69.5
19-Aug	90	73.5	80.2	61.8	53	128.8	81.3	95.8	71.3
26-Aug	87	70.7	78.7	59.2	50	120.4	77.3	90.5	65.5
2-Sep	88	69.6	78.8	59.1	50	120.4	76.7	90.6	65.6
9-Sep	88	67.3	77	57.4	46	121.1	77.1	84.4	61.8
16-Sep	86	71.7	73.6	55	44	114.1	80	80	57.1
23-Sep	82	66.5	71.4	52.2	41	109.9	73	76	52.2
30-Sep	82	69	68	49.5	37	100.8	70.7	68.8	47.5
7-Oct	79	65.2	65.9	46.8	34	98.7	69.3	62.8	42.3
14-Oct	77	66.4	63.7	45.2	31	99.4	71.9	58.9	39.1
21-Oct	74	59.8	60.4	42.2	31	88.2	69.1	51.3	33.1
28-Oct	72	59.9	57.2	40.6	30	82.6	65.4	47.4	30.6
4-Nov	70	57.8	55.1	37.9	28	79.8	62.7	41.8	26.1
11-Nov	68	58.8	52	36.1	23	77	64	39.9	23.9
18-Nov	65	57.4	49.5	34.5	23	72.1	63	36.9	21.6
25-Nov	64	58.1	46.9	32.1	18	71.4	58.6	34.5	20.9
2-Dec	63	57.8	46	32.1	18	72.1	62.6	35.1	20.3
9-Dec	61	53.9	40.3	27.8	12	63	57.1	28.3	16.9
16-Dec	56	52.8	37.9	25.6	9	59.5	54.4	26.8	15.9
23-Dec	57	54.6	37.5	25.3	4	62.3	58	26.3	14.9
31-Dec	54	49.5	35.6	23.5	7	53.9	54.7	24.2	13.9

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	5.7	0	1156.8
FEB	4.6	0.1	1008.8
MAR	36.7	3.3	856.3
APR	133.4	20.3	487.1
MAY	331.2	72.3	233.7
JUN	541.5	162.9	73.4
JUL	691.6	254.7	28.2
AUG	631.2	207.5	41.6
SEP	405.4	91.4	148.3
OCT	162.9	18.4	421.3
NOV	45.5	1.4	687
DEC	7.9	0.1	1019.5
ANN	2997.6	832.4	6162

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	-32394	1	-7782
FEB	0	-28345	0	-7231
MAR	8	-24567	0	-5798
APR	91	-14766	16	-2788
MAY	399	-7856	542	-509
JUN	964	-2935	2727	-6
JUL	1854	-1356	5043	-1
AUG	1282	-1886	4172	0
SEP	414	-5326	1645	-23
OCT	29	-13102	221	-909
NOV	0	-20116	3	-3485
DEC	0	-28834	0	-6353
ANN	5041	-181483	14370	-34885

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	WILKES-BARRE, PA 14777	Window:	1.000
Lat, Lon, Elev	41.33N 75.73W 948ft	Overhang:	0.572
Press, Stn_Type	14.3psia Secondary	Vert Gap:	0.326

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	550	800	1130	1460	1710	1880	1860	1640	1290	930	560	450	1190
	Std.Dev.	43	65	69	118	151	127	103	95	108	75	45	30	26
	Minimum	490	660	1010	1240	1400	1590	1670	1500	1090	820	480	400	1150
	Maximum	670	980	1270	1710	1980	2130	2040	1870	1460	1180	660	500	1260
	Diffuse	340	470	600	740	860	910	880	780	640	460	350	300	610
Clear Day	Global	820	1180	1670	2160	2480	2600	2520	2230	1780	1280	880	710	1690
NORTH	Global	190	270	350	440	540	610	580	480	380	280	200	170	370
	Diffuse	190	270	350	430	500	540	520	460	380	280	200	170	360
Clear Day	Global	180	250	330	430	580	680	620	480	360	270	190	160	380
EAST	Global	360	500	670	850	960	1030	1020	920	760	580	360	280	690
	Diffuse	230	330	420	520	600	640	630	560	460	340	240	200	430
Clear Day	Global	620	840	1090	1310	1420	1450	1410	1310	1130	880	650	550	1060
SOUTH	Global	820	950	990	930	830	800	840	940	1010	1030	740	660	880
	Diffuse	340	430	500	540	580	590	590	570	520	430	330	290	480
Clear Day	Global	1790	1900	1800	1460	1140	1000	1040	1290	1610	1800	1760	1690	1520
WEST	Global	370	510	690	840	930	1030	1020	950	770	590	360	290	700
	Diffuse	240	330	430	530	600	650	640	570	470	350	240	200	440
Clear Day	Global	620	840	1090	1310	1420	1450	1410	1310	1130	880	650	550	1060

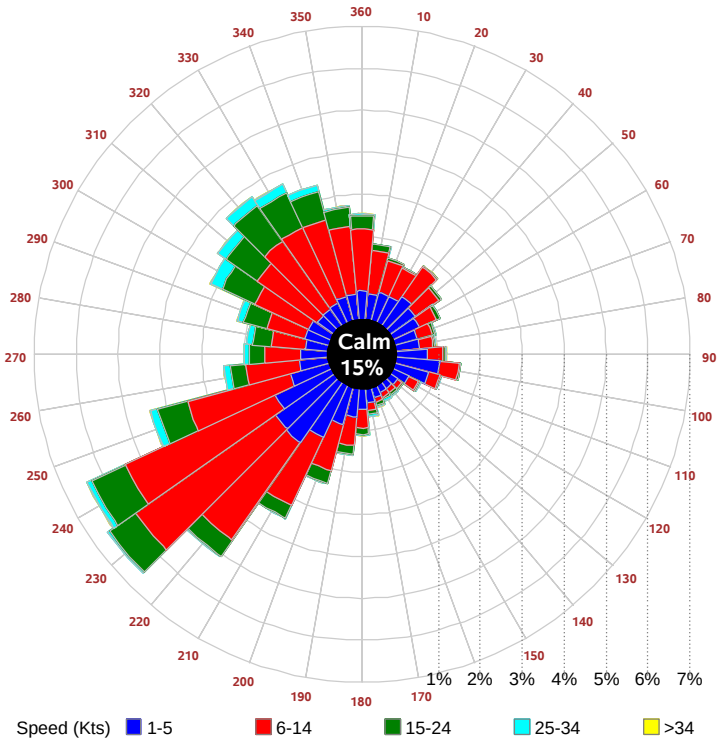
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	360	550	790	1040	1230	1370	1350	1180	920	640	370	290	840
NORTH	Unshaded	140	190	240	300	360	400	380	320	260	190	140	110	250
	Shaded	110	160	210	260	310	350	340	290	230	170	120	97	220
EAST	Unshaded	240	350	470	600	680	730	720	650	540	400	240	190	490
	Shaded	210	300	400	500	570	600	600	550	460	350	210	170	410
SOUTH	Unshaded	610	700	690	610	530	500	520	610	690	750	550	500	600
	Shaded	590	630	540	400	350	360	360	380	490	650	520	470	480
WEST	Unshaded	250	360	490	600	660	730	720	670	550	420	250	200	490
	Shaded	220	310	420	500	550	610	600	570	470	360	220	170	420

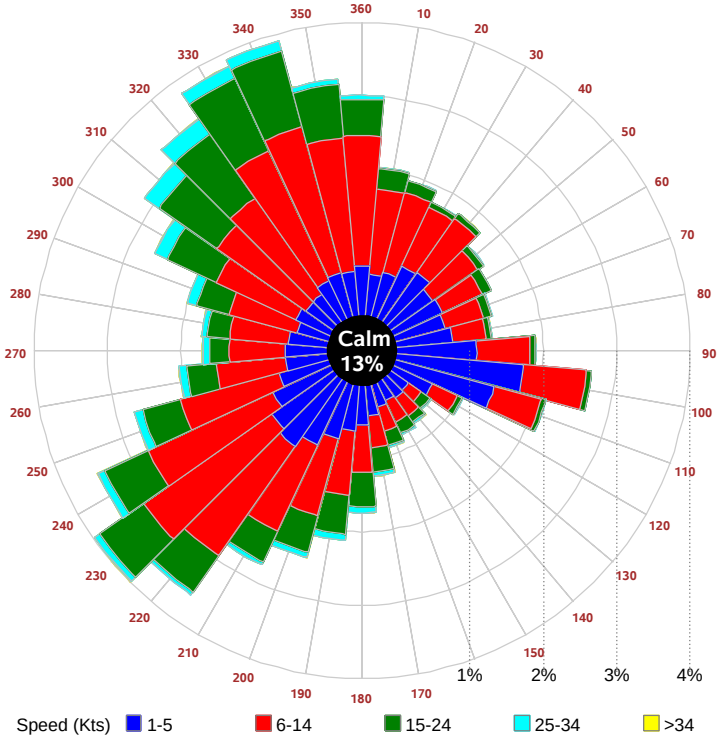
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 11											
				March					June		
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	37	69	78	61	25	47	83	99	93	67
	M.Cloudy	21	41	47	37	15	28	51	68	65	43
NORTH	M.Clear	10	14	15	13	8	17	17	17	17	15
	M.Cloudy	9	15	17	14	7	13	18	20	19	15
EAST	M.Clear	69	55	15	13	8	75	72	31	17	15
	M.Cloudy	23	28	17	14	7	30	38	27	19	15
SOUTH	M.Clear	38	72	83	65	25	12	34	49	45	22
	M.Cloudy	16	34	39	30	11	11	24	36	33	18
WEST	M.Clear	10	14	23	65	60	12	17	17	52	77
	M.Cloudy	9	15	19	30	19	11	18	20	37	40
M.Clear	(% hrs)	25	26	26	27	29	38	38	31	29	33

				Sept					Dec		
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	26	63	81	74	44	12	36	42	25	1
	M.Cloudy	15	37	53	48	27	7	21	24	15	1
NORTH	M.Clear	8	14	16	16	12	5	9	10	8	0
	M.Cloudy	7	14	18	16	11	4	9	10	7	0
EAST	M.Clear	58	67	28	16	12	31	35	10	8	0
	M.Cloudy	17	30	22	16	11	8	15	10	7	0
SOUTH	M.Clear	20	56	75	68	37	29	73	83	56	1
	M.Cloudy	9	27	42	37	18	8	23	25	16	0
WEST	M.Clear	8	14	16	51	69	5	9	20	43	2
	M.Cloudy	7	14	18	31	28	4	9	12	14	0
M.Clear	(% hrs)	37	37	32	33	36	17	18	19	19	23

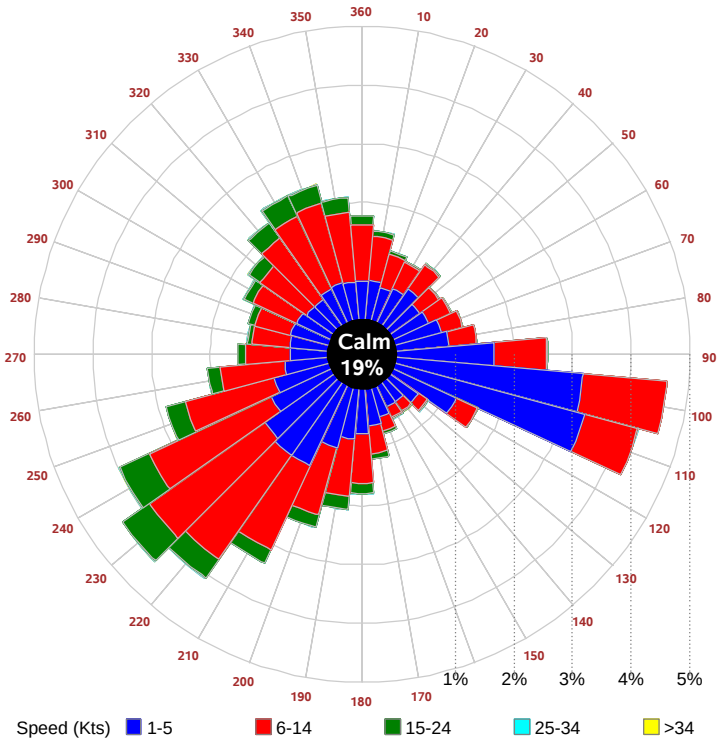
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November