DUTCHESS CO, NY

Latitude = 41.63 N	Station ID = ICAO_KPOU
Longitude = 73.88 W	Elevation = 165 Feet
Period of Record = 1988 To 2017	Average Pressure = 29.84 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	97	76	100	9.4	W
0.4% Occurrence	91	73	95	8.2	WSW
1.0% Occurrence	89	72	94	7.9	WSW
2.0% Occurrence	86	71	92	7.6	WSW
Mean Daily Range	20	-	-	-	N
97.5% Occurrence	14	12	8	5.1	N
99.0% Occurrence	8	7	6	4.3	N
99.6% Occurrence	2	1	5	2.7	N
Median of Extreme Lows	-4	-5	3	2	SW

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	132	7.7	SW
0.4% Occurrence	77	87	121	7.1	WSW
1.0% Occurrence	75	84	115	6.3	WSW
2.0% Occurrence	74	82	112	5.9	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	137	87	0.9	6.4	S
0.4% Occurrence	124	81	0.82	5	S
1.0% Occurrence	119	79	0.79	4.9	S
2.0% Occurrence	114	79	0.76	4.6	S

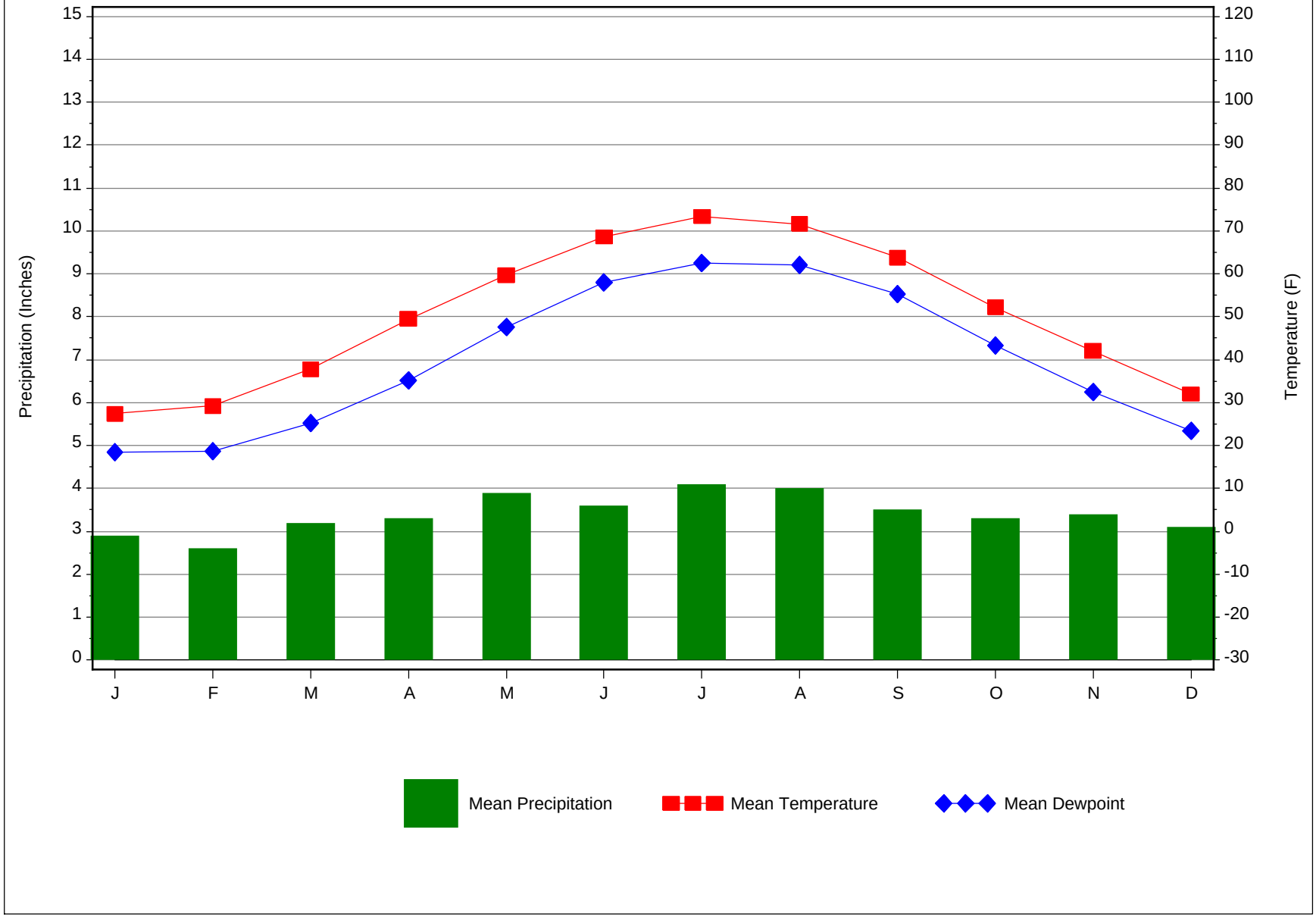
Air Conditioning/ Humid Area Criteria	**Threshold**	**T ≥ 93°F**	**T ≥ 80°F**	**Twb ≥ 73°F**	**Twb ≥ 67°F**
	# of Hours	29	557	273	1110

Other Site Data

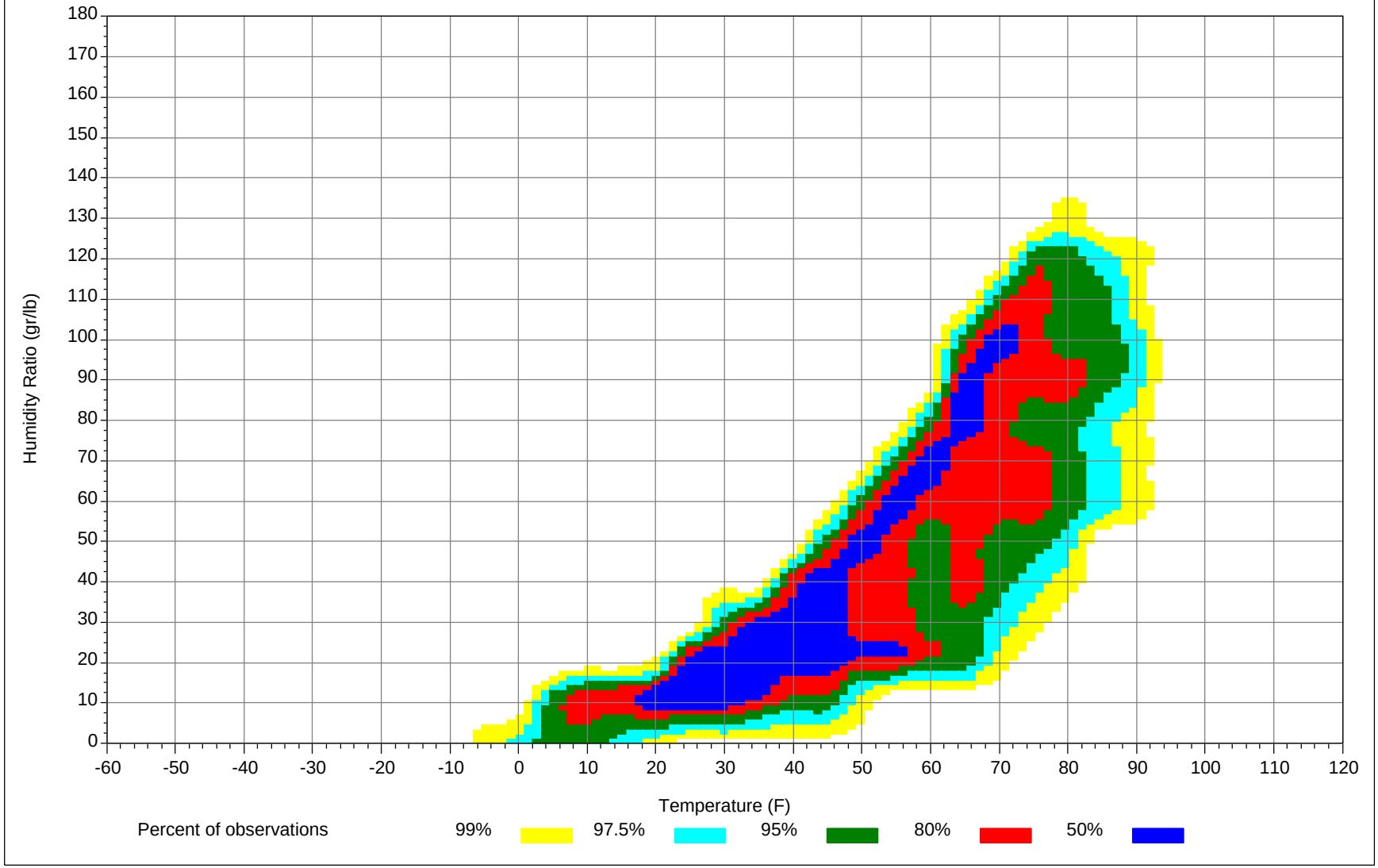
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
6	2.8	100	1.6 + 0.6
Ground Water Temperature (°F) 50 Foot Depth*	Frost Depth 50 Year Recurrence (in)	Ground Snow Load 50 Year Recurrence (lb/ft^2)	Average Annual Freeze-Thaw Cycles (#)
53.2	N/A	N/A	85

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

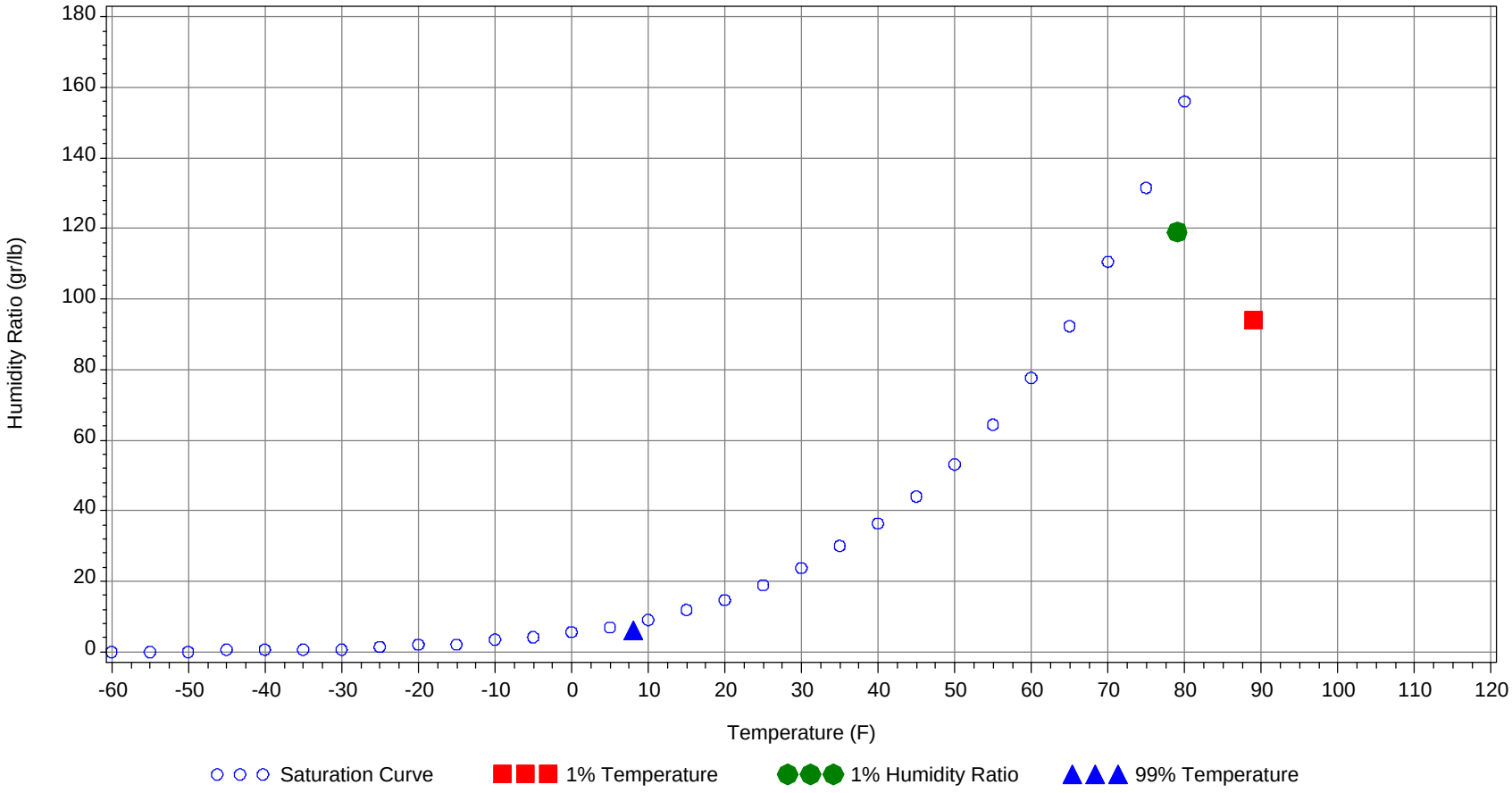
Average Annual Climate



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	89.0		72		94.0	36.8
99.0% Dry Bulb	8.0				6.0	2.8
1.0% Humidity Ratio	119.0	79.0	74	72.0		37.7

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)**
105/109															
100/104															
95/ 99															
90/ 94												0		0	70
85/ 89												0		0	69.8
80/ 84												1	0	1	63.6
75/ 79												1	1	2	62.6
70/ 74		0		0	59.5		0	0	0	60.6	0	4	1	5	57.7
65/ 69		0		0	59.6		0	0	0	57.7	0	4	2	6	55.4
60/ 64	1	2	1	4	57.1	1	2	1	4	53.4	1	11	6	18	51.6
55/ 59	2	4	2	8	52.3	1	4	2	7	48.5	3	15	10	28	47.8
50/ 54	2	5	3	10	47.4	1	8	5	14	44.2	8	25	19	52	44.8
45/ 49	4	16	8	28	41.7	4	19	11	34	40.4	17	43	33	93	40.5
40/ 44	8	22	14	44	37.8	5	22	14	41	36.8	20	37	33	90	36.9
35/ 39	27	46	38	111	33.4	24	44	41	109	33	47	50	55	152	33.1
30/ 34	45	48	53	146	29.4	38	46	46	130	28.9	49	31	42	122	28.8
25/ 29	39	42	48	129	24.1	45	36	47	128	24	49	15	28	92	24.1
20/ 24	29	22	26	77	19.6	31	18	23	72	19.5	23	5	10	38	19.6
15/ 19	34	20	28	82	15.5	32	14	19	65	15.5	17	4	5	26	15.6
10/ 14	24	12	13	49	10.4	18	5	9	32	10.4	7	1	2	10	10.7
5/ 9	15	5	9	29	6	11	2	4	17	6.1	5	0	1	6	6
0/ 4	12	3	4	19	0.9	8	1	2	11	1.5	1	0	0	1	1.6
-5/ -1	4	0	1	5	-3.3	2	0	0	2	-3.1	0			0	-2.6
-10/ -6	3	0	1	4	-7.2	2	0	0	2	-6.8	0			0	-6.5
-15/-11	1	0	0	1	-11.9	0			0	-11.5					
-20/-16	0	0		0	-16.7										
-25/-21	0			0	-20.8										

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)**
105/109															
100/104															
95/ 99							0		0	74.5		1	0	1	76
90/ 94		1	0	1	66.2		3	0	3	70.5		10	3	13	73.6
85/ 89		1	1	2	65.7		8	2	10	68.8	0	18	5	23	71.4
80/ 84		4	2	6	63.3	0	17	8	25	66.4	1	48	22	71	68.9
75/ 79	0	7	3	10	59.7	1	25	13	39	63.6	8	54	35	97	66.4
70/ 74	1	14	8	23	57.1	5	39	23	67	60.5	32	54	53	139	64.5
65/ 69	2	17	10	29	54.1	10	38	27	75	57.7	43	24	40	107	62.2
60/ 64	7	35	22	64	51.1	33	54	49	136	55.5	63	22	47	132	59
55/ 59	12	41	35	88	48.3	48	37	52	137	52.2	47	6	25	78	54.7
50/ 54	27	44	42	113	45.3	62	23	43	128	48.6	28	1	9	38	50.7
45/ 49	50	42	49	141	41.7	46	4	23	73	44.2	14		2	16	45.9
40/ 44	42	20	32	94	38.2	23	0	5	28	40.3	4		0	4	41.6
35/ 39	48	9	25	82	34.4	16	0	2	18	36.5	0			0	37.4
30/ 34	31	3	9	43	30	4		0	4	31.8					
25/ 29	16	0	3	19	25.9	0			0	28					
20/ 24	3		0	3	21.1										
15/ 19	0			0	17.8										
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)**
105/109		0		0	77										
100/104		1	0	1	76.1		0	0	0	75					
95/ 99		5	1	6	75.5		2	0	2	76.1		0		0	75.6
90/ 94		22	7	29	73.5		14	3	17	74.2		3	1	4	73
85/ 89	0	34	12	46	72.2	0	28	8	36	72.4		9	2	11	70.9
80/ 84	4	74	35	113	70.1	2	70	28	100	70.1	0	27	7	34	69.4
75/ 79	21	60	53	134	68.5	14	64	46	124	68.3	4	45	19	68	67
70/ 74	66	37	68	171	67	55	48	69	172	66.9	22	60	39	121	64.8
65/ 69	57	11	37	105	64	53	14	40	107	64	28	39	34	101	61.5
60/ 64	61	4	27	92	60.4	64	7	37	108	60.4	47	39	54	140	58.6
55/ 59	27	0	6	33	55.6	38	1	15	54	55.6	47	15	39	101	54.3
50/ 54	10		1	11	51.7	18		2	20	51.4	41	4	27	72	50.5
45/ 49	2		0	2	46.8	4		0	4	46.7	32	0	14	46	45.7
40/ 44						0			0	42.8	13		3	16	41.4
35/ 39											6		1	7	36.8
30/ 34											1			1	32.6
25/ 29															
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)**
105/109															
100/104															
95/ 99															
90/ 94															
85/ 89		0		0	69.8										
80/ 84		3	0	3	67.2		0		0	63					
75/ 79		11	2	13	64.8		1	0	1	63.1					
70/ 74	4	26	8	38	62.5	0	3	1	4	60.4		0		0	60.4
65/ 69	4	27	13	44	59.2	1	7	3	11	59.1	0	1	0	1	59.6
60/ 64	15	47	31	93	56	6	18	9	33	55.8	1	3	1	5	56.3
55/ 59	27	51	41	119	51.7	9	27	15	51	50.9	3	6	3	12	52
50/ 54	41	44	50	135	47.8	16	38	26	80	46.8	5	12	8	25	47.1
45/ 49	51	27	48	126	43.3	30	55	40	125	41.8	11	26	15	52	41.8
40/ 44	36	8	24	68	39.6	29	36	36	101	37.9	13	30	20	63	37.8
35/ 39	39	3	22	64	35.8	42	33	49	124	33.8	37	59	47	143	33.7
30/ 34	22	1	8	31	31.2	46	17	35	98	29.6	45	49	54	148	29.2
25/ 29	10		2	12	26.9	39	5	21	65	25.4	51	31	52	134	24.4
20/ 24	1		0	1	22.3	14	1	5	20	20.9	30	15	21	66	20
15/ 19	0			0	18.7	7	0	1	8	17.1	25	11	18	54	16.1
10/ 14						2		0	2	12.2	15	4	6	25	11
5/ 9						0		0	0	7.4	7	1	3	11	6.4
0/ 4											4	0	1	5	1.5
-5/ -1											1	0	0	1	-2.7
-10/ -6											0		0	0	-7.6
-15/-11											0			0	-11.9
-20/-16															
-25/-21															

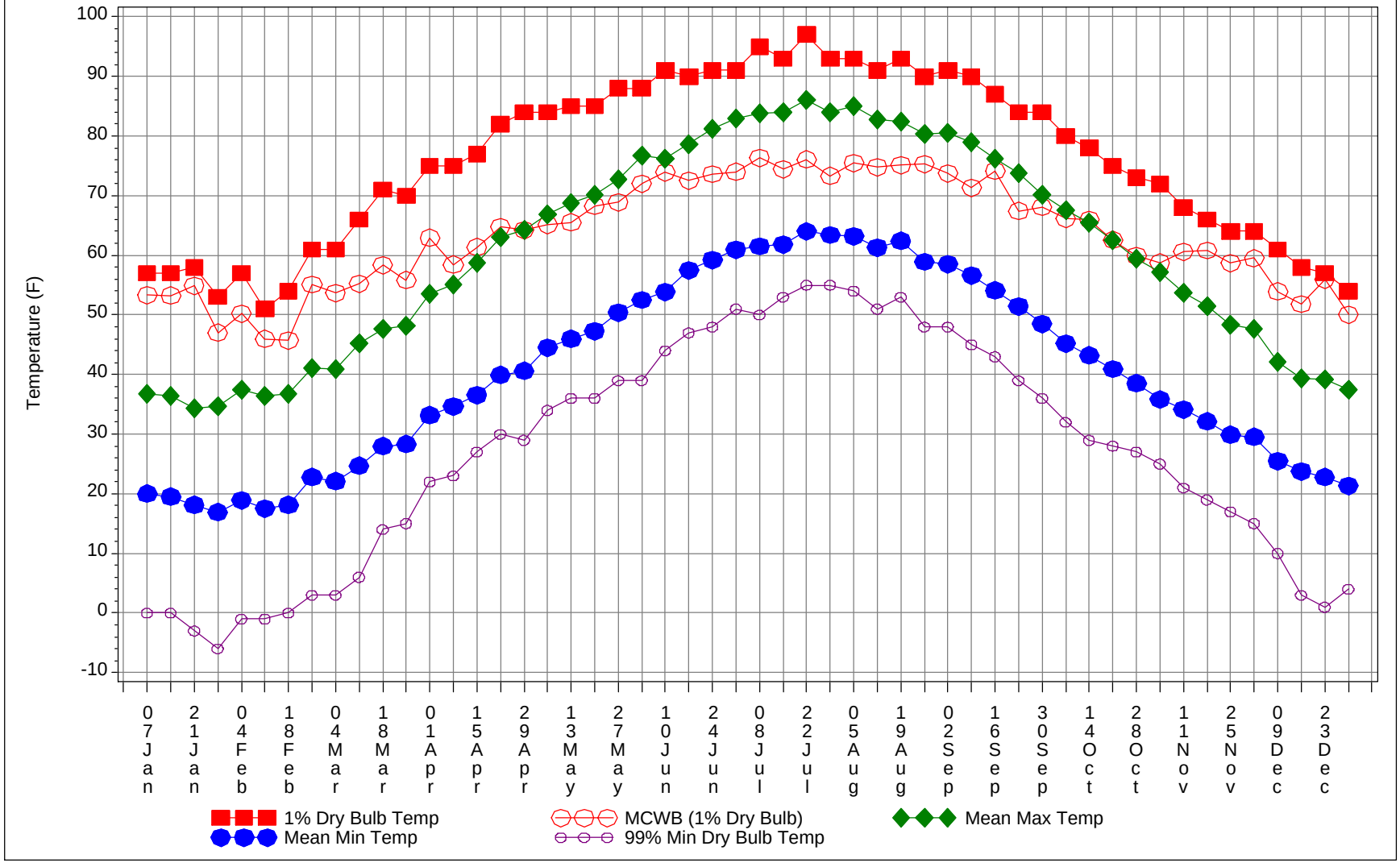
Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

Dry-Bulb Temperature Hours For An Average Year

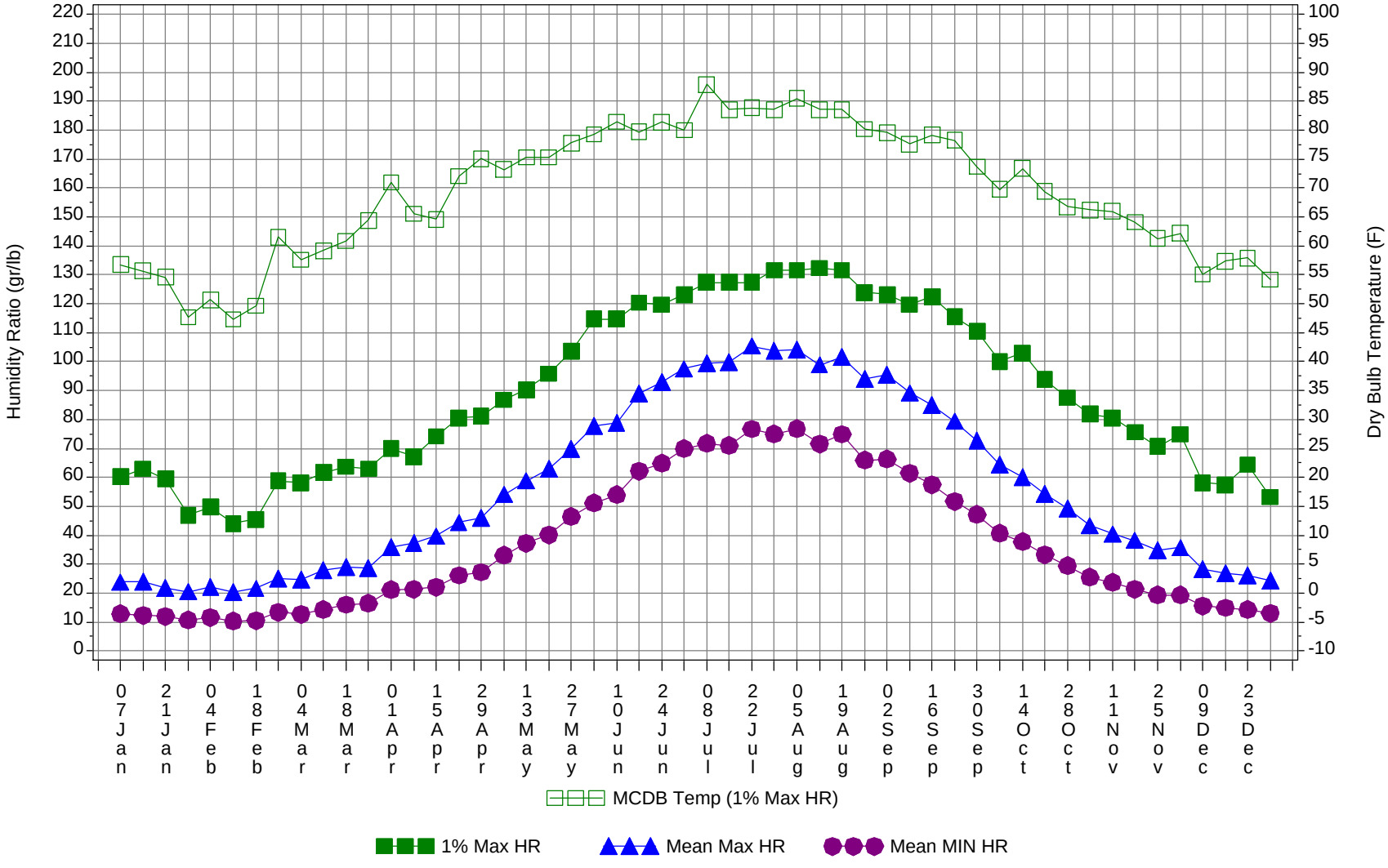
	Annual				
Temperature Range (°F)	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
105/109		0		0	77
100/104		1	0	1	75.9
95/ 99		9	2	11	75.7
90/ 94		52	14	66	73.5
85/ 89	1	98	30	129	71.7
80/ 84	9	243	100	352	69.4
75/ 79	48	267	171	486	67.1
70/ 74	184	287	270	741	64.9
65/ 69	196	182	206	584	61.4
60/ 64	298	242	285	825	57.4
55/ 59	262	209	244	715	52.3
50/ 54	257	205	235	697	47.7
45/ 49	264	232	242	738	42.4
40/ 44	193	176	181	550	38.1
35/ 39	286	246	280	812	33.8
30/ 34	282	195	247	724	29.3
25/ 29	251	130	200	581	24.4
20/ 24	132	61	85	278	19.8
15/ 19	116	49	71	236	15.7
10/ 14	66	21	30	117	10.6
5/ 9	38	9	16	63	6.1
0/ 4	25	4	7	36	1.2
-5/ -1	7	1	1	9	-3.1
-10/ -6	5	0	1	6	-7.1
-15/-11	2	0	0	2	-11.8
-20/-16	0	0		0	-16.7
-25/-21	0			0	-20.8

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



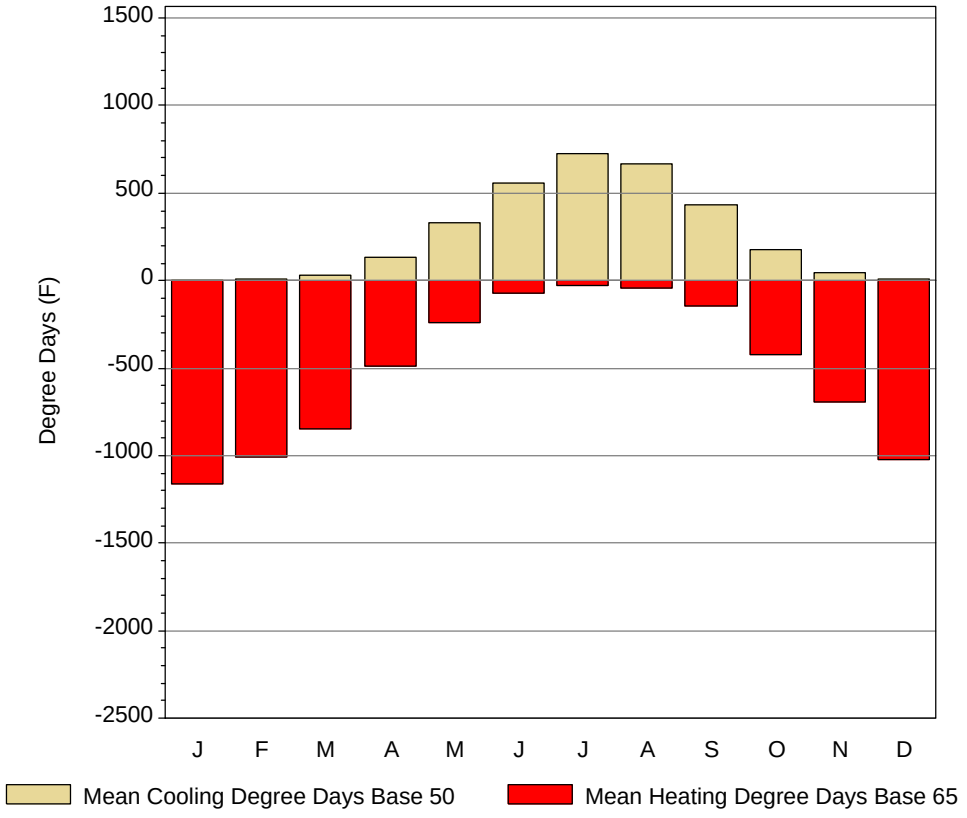
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

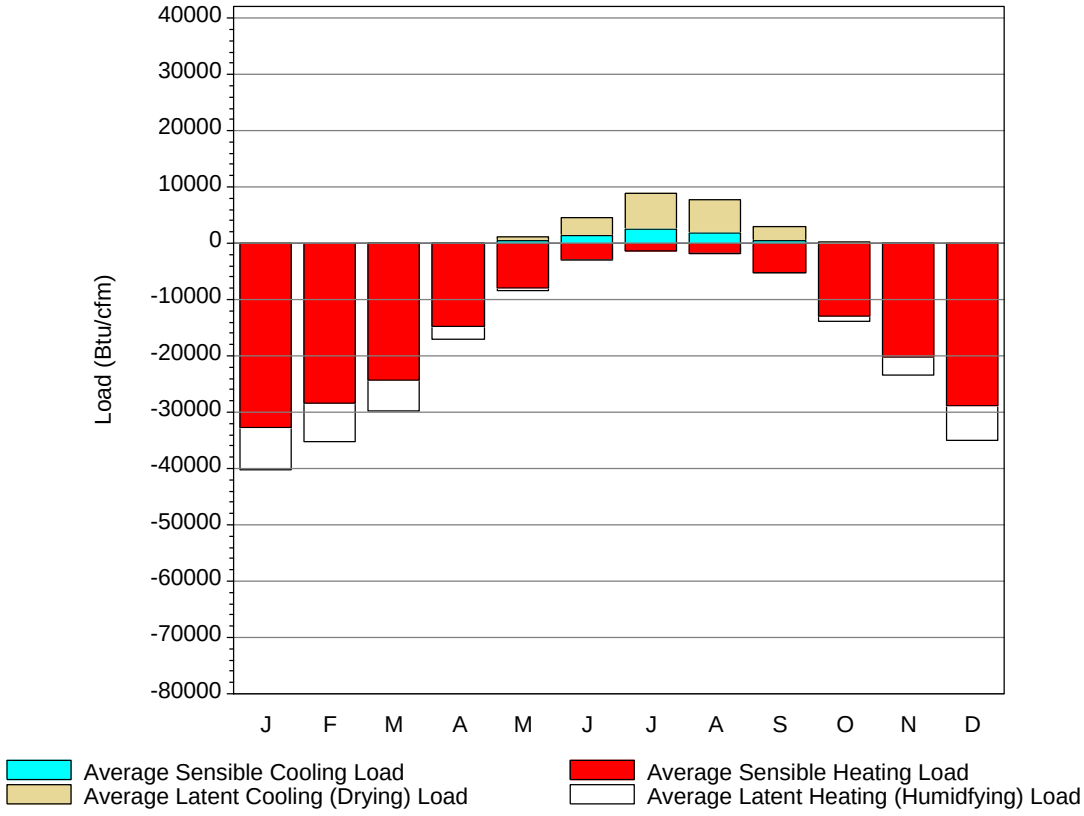
Week Ending	1.0% Temp (°F)	MCWB@ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB@ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	57	53.3	36.8	20	0	60.2	56.8	23.8	12.8
14-Jan	57	53.2	36.4	19.5	0	63	55.7	24	12.3
21-Jan	58	54.9	34.4	18.1	-3	59.5	54.6	21.8	11.9
28-Jan	53	47	34.7	16.9	-6	46.9	47.7	20.5	10.7
4-Feb	57	50.2	37.4	18.9	-1	49.7	50.7	22.1	11.5
11-Feb	51	46	36.4	17.5	-1	44.1	47.3	20.3	10.3
18-Feb	54	45.7	36.7	18.1	0	45.5	49.7	21.6	10.5
25-Feb	61	55.1	41.1	22.8	3	58.8	61.5	25.1	13.4
4-Mar	61	53.7	40.9	22.1	3	58.1	57.6	24.6	12.6
11-Mar	66	55.2	45.3	24.7	6	61.6	59.2	28	14.3
18-Mar	71	58.3	47.7	28	14	63.7	60.9	29.1	16
25-Mar	70	55.8	48.1	28.3	15	63	64.4	28.7	16.4
1-Apr	75	62.9	53.5	33.2	22	70	71	35.9	21.1
8-Apr	75	58.4	55.1	34.6	23	67.2	65.6	37.2	21.4
15-Apr	77	61.4	58.8	36.5	27	74.2	64.6	39.7	22.1
22-Apr	82	64.7	63	39.9	30	80.5	72.1	44.4	26.1
29-Apr	84	64.2	64.2	40.6	29	81.2	75.1	46	27.2
6-May	84	65.1	66.9	44.5	34	86.8	73.2	54.1	33.1
13-May	85	65.5	68.7	46	36	90.3	75.3	58.8	37.2
20-May	85	68.3	70.1	47.3	36	95.9	75.3	62.9	40.1
27-May	88	68.9	72.7	50.4	39	103.6	77.8	69.7	46.4
4-Jun	88	72	76.7	52.5	39	114.8	79.3	77.7	51.1
10-Jun	91	73.9	76.2	53.8	44	114.8	81.5	79	54
17-Jun	90	72.5	78.7	57.5	47	120.4	79.7	88.9	62.1
24-Jun	91	73.6	81.2	59.2	48	119.7	81.4	93.1	64.9
1-Jul	91	74	82.9	60.9	51	123.2	80	97.5	69.9
8-Jul	95	76.3	83.8	61.5	50	127.4	87.9	99.6	71.8
15-Jul	93	74.4	84	61.8	53	127.4	83.6	99.7	71
22-Jul	97	76.1	86.1	64	55	127.4	83.9	105.4	76.7
29-Jul	93	73.3	83.9	63.4	55	131.6	83.6	103.9	75
5-Aug	93	75.5	85.1	63.2	54	131.6	85.5	104.2	76.8
12-Aug	91	74.8	82.7	61.3	51	132.3	83.6	98.9	71.6
19-Aug	93	75.1	82.4	62.4	53	131.6	83.6	101.6	74.9
26-Aug	90	75.3	80.4	58.9	48	123.9	80.2	94.1	65.9
2-Sep	91	73.7	80.6	58.5	48	123.2	79.6	95.6	66.3
9-Sep	90	71.3	79	56.6	45	119.7	77.6	89.2	61.5
16-Sep	87	74.2	76.2	54.1	43	122.5	79.2	85.1	57.4
23-Sep	84	67.4	73.7	51.4	39	115.5	78.3	79.4	51.7
30-Sep	84	68.1	70.1	48.5	36	110.6	73.7	72.7	47.1
7-Oct	80	66.1	67.6	45.2	32	100.1	69.8	64.5	40.7
14-Oct	78	66	65.5	43.2	29	102.9	73.4	60.2	37.8
21-Oct	75	62.6	62.5	40.9	28	93.8	69.4	54.3	33.3
28-Oct	73	59.9	59.4	38.5	27	87.5	66.8	49.3	29.4
4-Nov	72	58.8	57.1	35.8	25	81.9	66.2	43.3	25.5
11-Nov	68	60.6	53.7	34.1	21	80.5	66	40.4	23.6
18-Nov	66	60.8	51.5	32.1	19	75.6	64.1	38.2	21.4
25-Nov	64	58.7	48.4	29.9	17	70.7	61.3	34.7	19.4
2-Dec	64	59.5	47.6	29.5	15	74.9	62.2	35.7	19.4
9-Dec	61	53.9	42.1	25.5	10	58.1	55.1	28.2	15.6
16-Dec	58	51.8	39.3	23.7	3	57.4	57.4	26.8	14.9
23-Dec	57	55.9	39.2	22.8	1	64.4	57.9	26	14.3
31-Dec	54	50	37.4	21.3	4	53.2	54.2	24.3	13

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	4.6	0	1164.8
FEB	5.3	0.1	1010.7
MAR	34.2	3.8	848.1
APR	131.8	20.4	485.4
MAY	331.8	73.7	238
JUN	561	183	75.2
JUL	726.2	288	27
AUG	667.9	244.1	41.6
SEP	430.5	111.2	146.3
OCT	174.8	21.7	419.4
NOV	48.6	2.1	692.1
DEC	8.8	0.2	1022.8
ANN	3125.5	948.3	6171.4

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	-32601	1	-7535
FEB	0	-28393	0	-6846
MAR	12	-24352	3	-5381
APR	106	-14727	14	-2283
MAY	446	-7970	609	-321
JUN	1284	-2952	3174	-5
JUL	2430	-1279	6495	0
AUG	1820	-1808	5859	-1
SEP	574	-5167	2326	-19
OCT	44	-13028	301	-751
NOV	1	-20237	15	-3176
DEC	0	-28918	2	-6067
ANN	6717	-181432	18799	-32385

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	NEWYORKCITY, NY 94728	Window:	1.000
Lat, Lon, Elev	40.78N 73.97W 187ft	Overhang:	0.556
Press, Stn_Type	14.7psia Primary	Vert Gap:	0.324

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	610	870	1220	1560	1800	1940	1910	1710	1370	1010	640	510	1260
	Std.Dev.	35	73	74	108	134	122	106	87	87	67	52	39	30
	Minimum	530	720	1050	1360	1520	1600	1670	1540	1220	910	540	430	1180
	Maximum	690	1040	1400	1740	2040	2170	2080	1870	1540	1200	750	570	1320
	Diffuse	320	430	580	740	900	970	950	840	660	470	340	280	630
Clear Day	Global	840	1190	1670	2160	2470	2580	2500	2210	1780	1290	890	730	1700
NORTH	Global	190	260	350	450	550	620	600	500	390	290	210	170	380
	Diffuse	190	260	350	440	520	560	550	480	390	290	210	170	370
Clear Day	Global	180	240	330	430	580	670	620	480	360	270	200	160	380
EAST	Global	410	560	740	910	1000	1040	1050	970	820	650	430	350	750
	Diffuse	240	330	430	540	630	670	660	600	490	370	260	210	450
Clear Day	Global	640	840	1090	1300	1410	1430	1390	1300	1120	880	660	560	1050
SOUTH	Global	980	1090	1100	990	870	820	850	970	1080	1140	940	860	970
	Diffuse	350	430	510	560	600	620	620	610	550	470	360	310	500
Clear Day	Global	1800	1890	1770	1440	1120	980	1030	1270	1590	1780	1760	1710	1510
WEST	Global	410	550	740	890	980	1040	1030	950	800	630	410	340	730
	Diffuse	240	330	440	540	630	680	670	600	490	370	250	200	450
Clear Day	Global	640	840	1090	1300	1410	1430	1390	1300	1120	880	660	560	1050

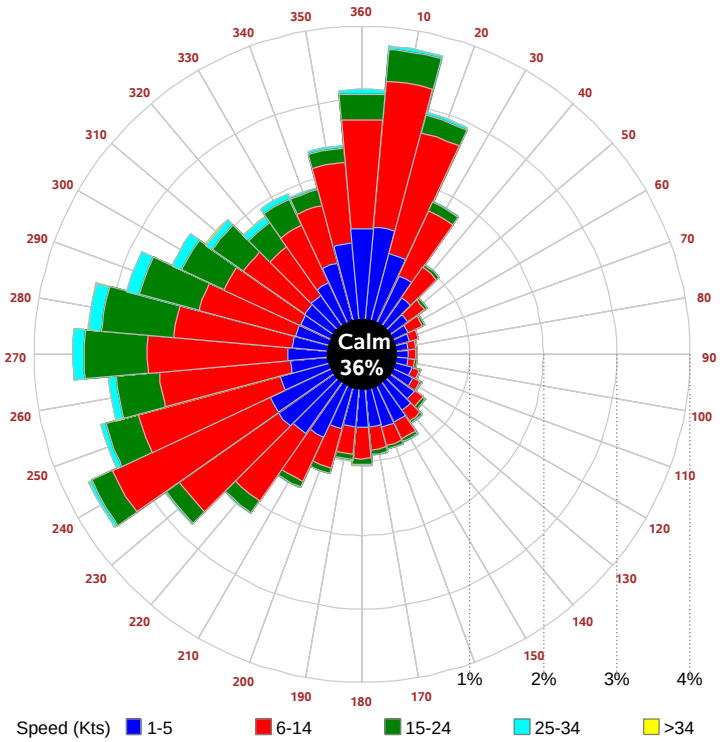
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING Percentage Uncertainty = 9														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ.	Unshaded	390	590	860	1120	1300	1400	1380	1230	980	700	430	320	890
NORTH	Unshaded	130	180	240	310	370	410	400	340	270	200	140	120	260
	Shaded	120	160	210	270	320	360	350	300	240	180	130	100	230
EAST	Unshaded	280	390	520	650	700	740	740	690	580	450	300	230	520
	Shaded	250	340	450	550	590	610	620	580	500	400	260	210	450
SOUTH	Unshaded	730	800	770	650	550	510	530	620	740	820	700	650	670
	Shaded	710	730	600	430	370	370	380	400	530	720	670	630	540
WEST	Unshaded	280	380	520	630	690	730	730	670	570	440	280	230	510
	Shaded	250	340	450	530	580	610	610	560	490	380	250	200	440

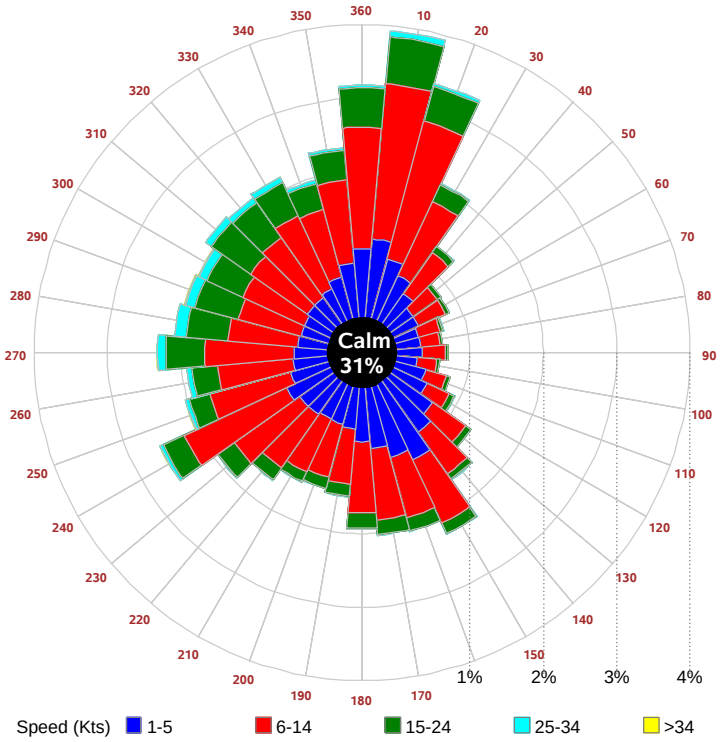
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9											
				March					June		
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	39	71	79	60	22	48	83	100	93	64
	M.Cloudy	23	45	48	38	14	31	54	71	67	44
NORTH	M.Clear	10	14	15	13	7	17	17	18	18	16
	M.Cloudy	9	15	16	14	6	13	18	20	20	16
EAST	M.Clear	69	53	15	13	7	72	69	29	18	16
	M.Cloudy	25	30	16	14	6	33	40	26	20	16
SOUTH	M.Clear	40	73	82	62	22	13	35	49	43	21
	M.Cloudy	17	38	41	32	10	12	25	37	33	18
WEST	M.Clear	10	14	26	66	55	13	17	18	55	75
	M.Cloudy	9	15	20	33	19	12	18	20	39	42
M.Clear	(% hrs)	38	35	34	32	34	38	39	34	34	35

				Sept					Dec		
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	28	66	82	73	42	14	38	42	24	0
	M.Cloudy	17	41	56	50	27	9	23	25	15	0
NORTH	M.Clear	9	15	17	16	12	5	10	10	7	0
	M.Cloudy	8	15	18	17	11	4	9	10	6	0
EAST	M.Clear	60	65	26	16	12	34	34	10	7	0
	M.Cloudy	21	33	22	17	11	11	16	10	6	0
SOUTH	M.Clear	22	58	75	65	34	33	75	81	52	0
	M.Cloudy	11	30	44	38	19	10	28	29	18	0
WEST	M.Clear	9	15	17	54	66	5	10	22	42	0
	M.Cloudy	8	15	18	33	30	4	9	13	15	0
M.Clear	(% hrs)	43	46	40	39	39	33	32	31	30	35

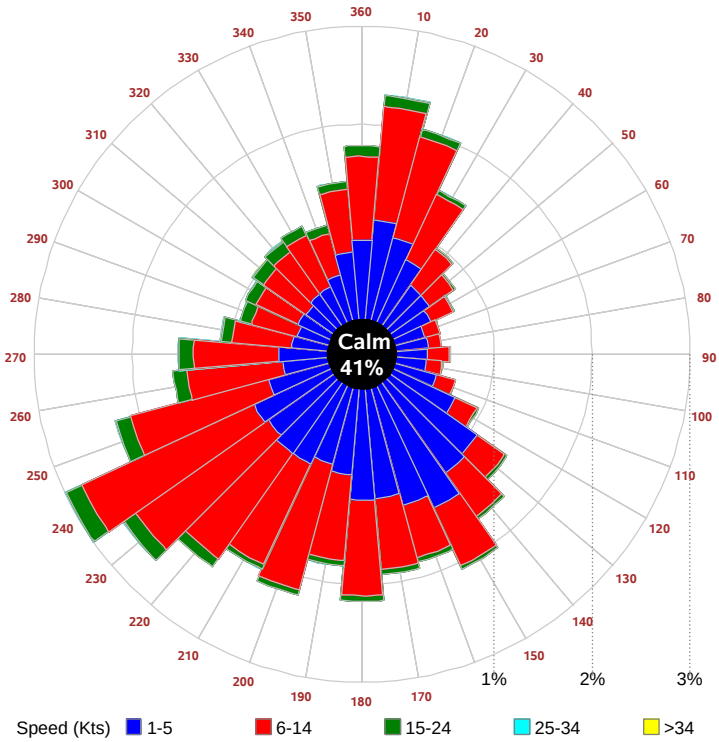
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November