

GLEN FALLS/WARREN NY

Latitude = 43.33 N

WMO No. 725185

Longitude = 73.62 W

Elevation = 328 feet

Period of Record = 1973 to 1996

Average Pressure = 29.64 inches Hg

Design Criteria Data

	Design Value	Mean Coincident (Average) Values			
		Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Dry Bulb Temperature (T)	(°F)				
Median of Extreme Highs	93	75	107	10.8	S
0.4% Occurrence	88	73	99	10.2	S
1.0% Occurrence	85	71	93	9.9	S
2.0% Occurrence	82	69	89	9.7	S
Mean Daily Range	21	-	-	-	-
97.5% Occurrence	3	2	4	4.8	N
99.0% Occurrence	-5	-6	3	3.3	N
99.6% Occurrence	-12	-12	2	2.1	N
Median of Extreme Lows	-24	-24	1	1.6	N
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T_{wb})	(°F)				
Median of Extreme Highs	79	88	133	9.9	S
0.4% Occurrence	76	85	121	9.6	S
1.0% Occurrence	74	82	113	9.1	S
2.0% Occurrence	72	80	106	8.4	S
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)	(gr/lb)				
Median of Extreme Highs	143	85	0.94	8.7	S
0.4% Occurrence	124	81	0.82	8.2	S
1.0% Occurrence	116	80	0.77	7.9	S
2.0% Occurrence	109	77	0.72	7.5	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		4	322	133	673

Other Site Data

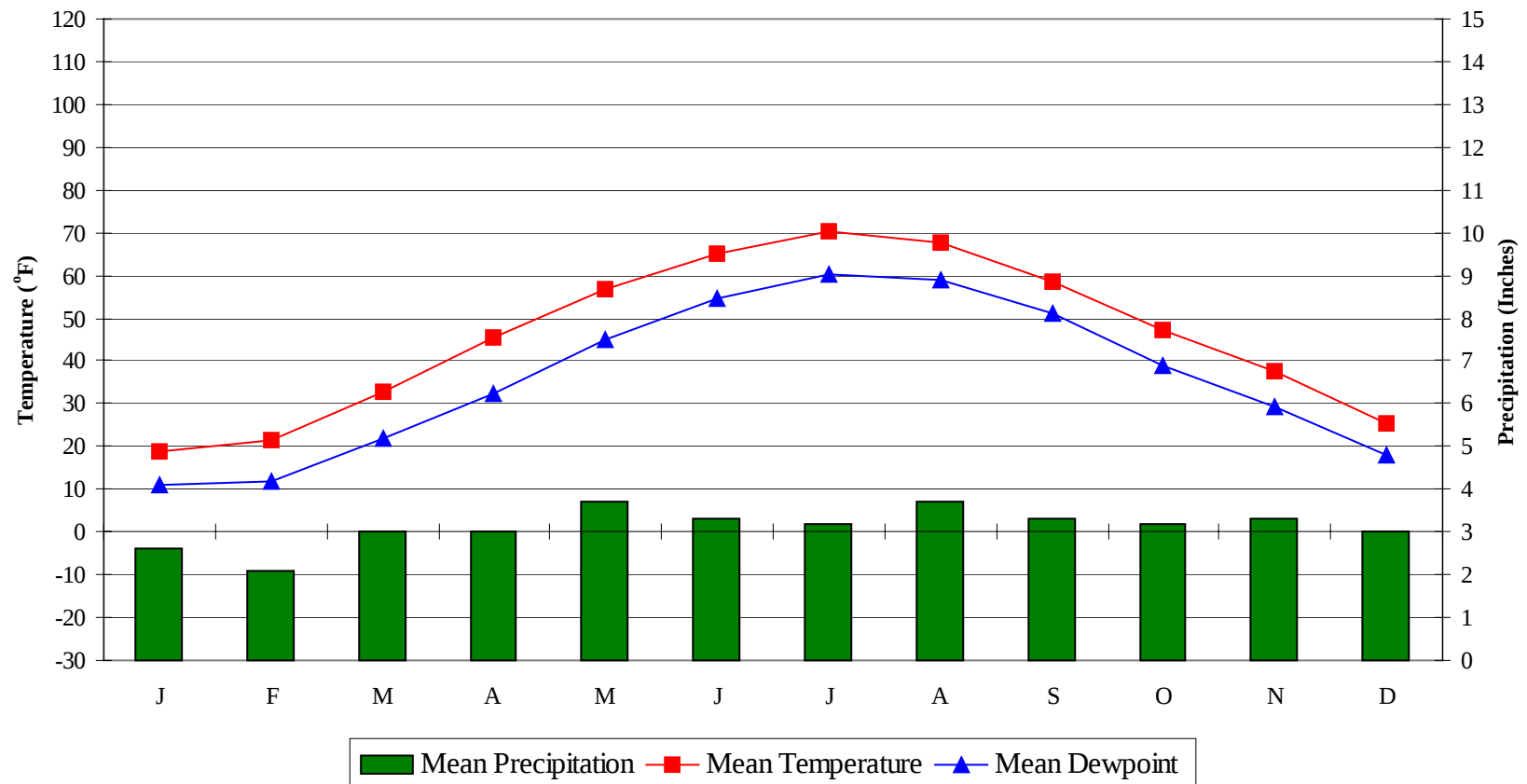
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
5	2.3	90	0.9 + 0.3
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
48.0	N/A	N/A	85

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

GLEN FALLS/WARREN NY

WMO No. 725185

Average Annual Climate

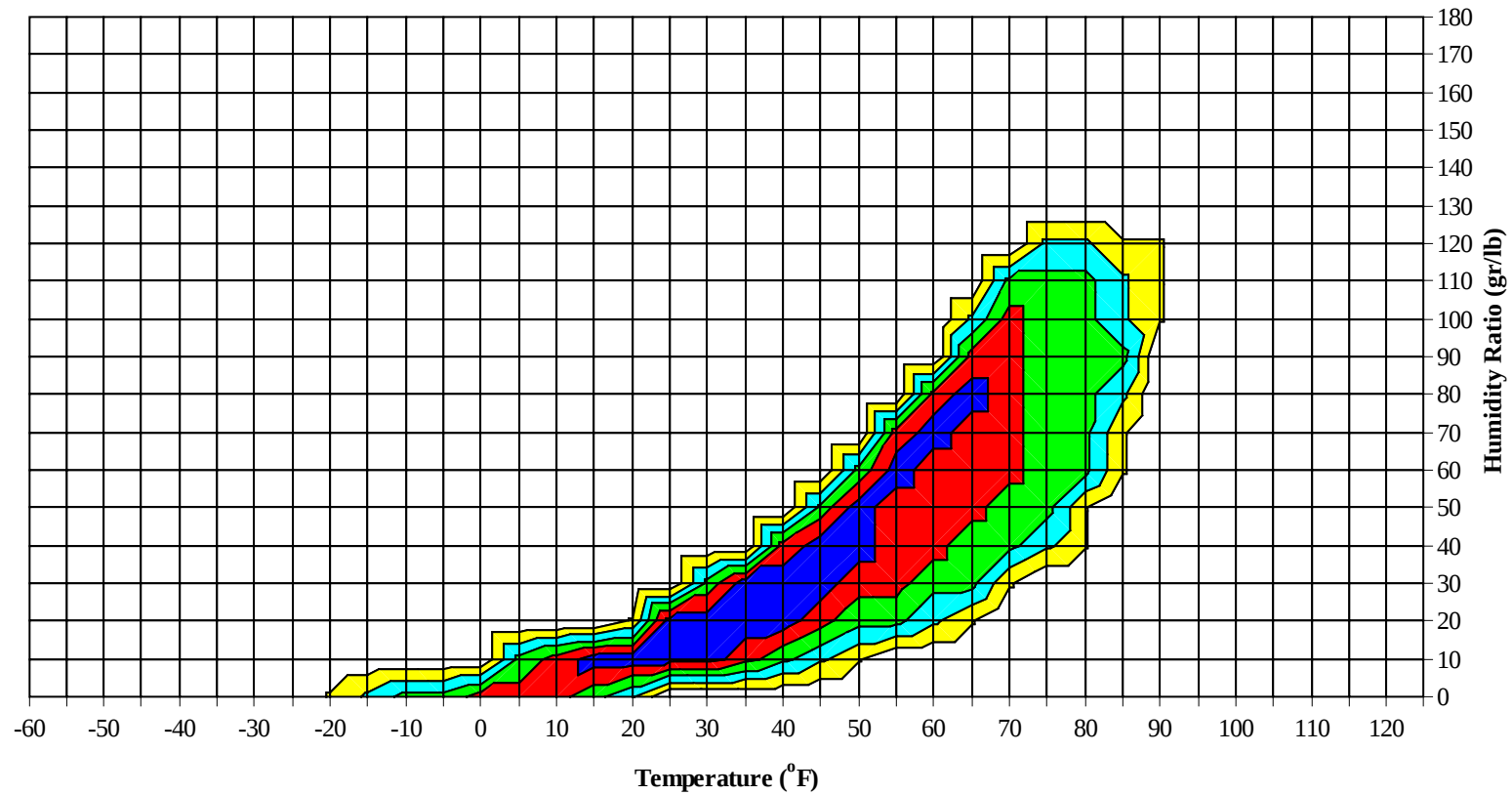


GLEN FALLS/WARREN

NY

WMO No. 725185

Long Term Psychrometric Summary

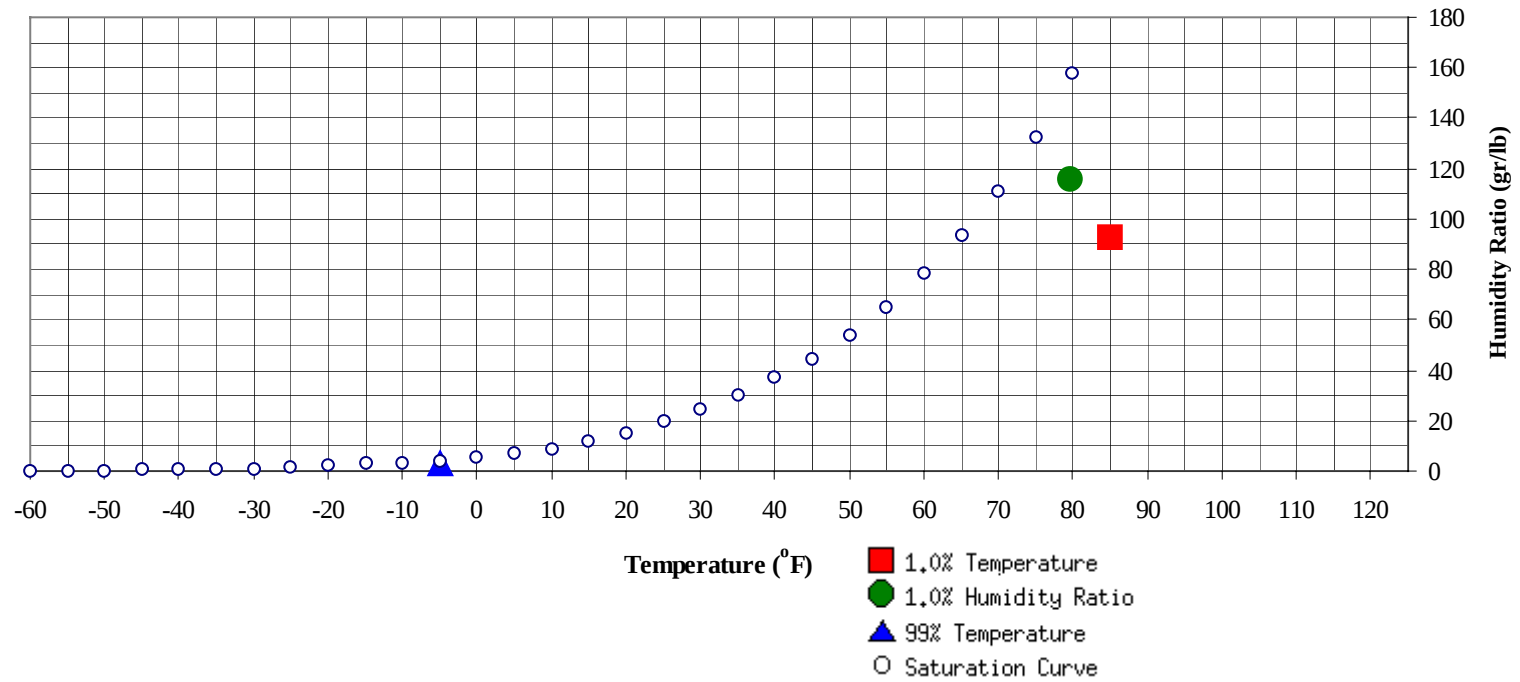


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

GLEN FALLS/WARREN NY

WMO No. 725185

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
99% Dry Bulb	-5	2.8	-0.8		115.5	79.6	73.5	71	37.2

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	85	93.1	70.9	35.0

GLEN FALLS/WARREN NY

WMO No. 725185

Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	January					February					March				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
95 / 99															
90 / 94															
85 / 89															
80 / 84											0	0	0	0	61.9
75 / 79											0	1	0	1	61.0
70 / 74											0	1	1	2	59.2
65 / 69											0	2	1	3	56.2
60 / 64	0	1	0	1	58.6		1		1	53.9	1	5	2	8	52.6
55 / 59	0	0	0	0	54.2	0	1	1	2	51.1	1	8	4	13	49.1
50 / 54	1	1	1	3	48.3	0	2	1	3	46.3	2	14	9	25	44.7
45 / 49	1	3	2	6	42.4	2	7	2	11	41.9	8	27	16	51	41.3
40 / 44	3	11	6	20	37.8	7	17	11	35	37.6	16	46	29	91	37.2
35 / 39	15	28	20	63	33.8	17	29	24	70	33.6	35	52	50	137	33.3
30 / 34	28	37	36	101	29.6	24	35	33	92	29.1	52	40	53	145	29.1
25 / 29	28	35	32	95	24.6	20	35	30	85	24.1	39	26	36	101	24.0
20 / 24	28	37	33	98	19.9	24	32	29	85	19.4	32	14	22	68	19.6
15 / 19	27	30	32	89	15.2	27	25	31	83	14.9	24	7	13	44	15.1
10 / 14	29	26	31	86	10.6	27	20	26	73	10.3	16	4	7	27	10.4
5 / 9	26	16	21	63	5.9	24	11	16	51	5.7	10	1	3	14	5.9
0 / 4	22	12	15	49	1.1	20	7	9	36	1.0	6	0	1	7	1.1
-5 / -1	11	4	7	22	-3.2	11	2	5	18	-3.1	2	0	0	2	-3.1
-10 / -6	9	3	6	18	-7.6	10	1	3	14	-7.4	2	0	0	2	-7.4
-15 / -11	8	1	4	13	-12.1	6	0	1	7	-11.9	1			1	-12.2
-20 / -16	4	1	2	7	-16.8	3	0	1	4	-16.9	0			0	-15.5
-25 / -21	4	0	1	5	-21.8	1		0	1	-21.5					
-30 / -26	2	0	0	2	-26.3	1			1	-25.9					
-35 / -31	0			0	-31.1										
-40 / -36	0			0	-35.0										

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.

GLEN FALLS/WARREN NY

WMO No. 725185

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	April					May					June				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
95 / 99												0		0	74.5
90 / 94		0		0	65.5		0	0	0	70.8		4	1	5	72.8
85 / 89		1	0	1	65.1		5	1	6	68.3		10	4	14	70.9
80 / 84		2	1	3	63.5		12	4	16	66.4	0	33	13	46	68.1
75 / 79		4	2	6	60.6	0	19	9	28	63.2	1	50	25	76	65.4
70 / 74	0	9	5	14	58.4	2	34	16	52	60.1	13	55	38	106	63.2
65 / 69	0	16	9	25	54.7	8	42	28	78	57.5	37	42	49	128	61.0
60 / 64	4	25	14	43	51.7	25	49	40	115	54.2	59	31	49	139	57.8
55 / 59	9	30	21	60	48.3	41	41	46	129	51.6	53	12	32	97	53.7
50 / 54	19	39	31	89	45.2	54	28	45	128	47.9	40	4	21	65	49.5
45 / 49	34	43	39	116	41.6	48	13	33	95	43.8	24	0	7	31	45.3
40 / 44	43	39	47	129	37.7	38	3	17	58	39.5	9		2	11	40.6
35 / 39	48	22	36	106	33.5	22	1	6	29	35.2	2		0	2	37.5
30 / 34	42	9	23	74	29.5	8		1	9	30.7	0			0	33.0
25 / 29	25	1	9	35	24.8	1			1	26.0					
20 / 24	11	0	2	13	20.2	0			0	22.0					
15 / 19	3	0	0	3	15.6										
10 / 14	1	0	0	1	10.6										
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															

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GLEN FALLS/WARREN

NY

WMO No. 725185

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	July					August					September				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
95 / 99		1	0	1	76.7		0		0	78.7					
90 / 94		8	2	10	75.5	0	4	1	5	75.9		0		0	75.4
85 / 89		30	9	39	72.5	0	17	4	21	73.1		2	0	2	74.5
80 / 84	0	60	26	86	69.4	0	46	14	60	70.6	0	10	2	12	71.1
75 / 79	7	63	39	109	67.3	3	62	30	95	67.8	0	23	7	30	67.5
70 / 74	36	51	57	144	65.7	22	60	53	135	65.6	4	38	17	59	64.2
65 / 69	68	25	55	148	63.0	60	35	60	155	63.1	17	49	31	96	61.1
60 / 64	67	9	39	115	59.4	65	17	44	125	59.2	32	55	45	132	57.4
55 / 59	42	1	16	59	54.9	46	6	30	82	54.7	46	39	50	136	53.5
50 / 54	22	0	4	26	50.7	33	0	10	43	50.4	49	18	40	108	49.5
45 / 49	6		1	7	46.4	13		3	16	46.1	38	4	27	69	45.1
40 / 44	1			1	42.7	4		0	4	42.2	29	1	14	44	40.6
35 / 39						1			1	36.9	17	0	6	23	36.1
30 / 34						0			0	31.0	7	0	1	8	32.1
25 / 29											1	0		1	27.2
20 / 24												0		0	17.0
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															

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GLEN FALLS/WARREN NY

WMO No. 725185

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	October					November					December				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
95 / 99															
90 / 94															
85 / 89															
80 / 84		0		0	67.9										
75 / 79		3	0	3	65.3		0		0	65.4					
70 / 74	0	8	2	10	62.8		1	0	1	63.8					
65 / 69	2	19	7	28	58.9	1	4	1	6	58.1		0		0	59.0
60 / 64	6	32	15	53	55.6	2	7	4	13	56.2	0	1	0	1	56.7
55 / 59	15	42	28	85	52.0	4	13	8	25	52.0	1	1	1	3	52.3
50 / 54	29	57	41	127	47.5	10	22	14	46	47.3	1	3	2	6	47.7
45 / 49	42	48	48	139	43.3	18	38	22	78	42.8	2	8	5	15	42.9
40 / 44	45	27	47	120	39.0	30	52	39	122	38.2	8	20	10	38	38.3
35 / 39	46	9	33	88	35.0	39	46	48	134	33.7	26	41	32	99	34.1
30 / 34	34	1	20	55	30.5	54	36	52	143	29.7	48	55	53	156	29.7
25 / 29	21		7	28	26.2	39	14	33	86	25.0	41	41	41	123	24.8
20 / 24	7		1	8	21.7	25	3	12	40	20.7	31	28	32	91	20.1
15 / 19	1			1	17.7	12	2	6	20	16.2	27	22	25	74	15.5
10 / 14						4	0	1	5	11.5	21	15	20	56	10.7
5 / 9						1	0	0	1	7.7	15	7	12	34	6.0
0 / 4						0			0	2.0	12	3	8	23	1.3
-5 / -1											5	1	4	10	-3.0
-10 / -6											5	1	2	8	-7.1
-15 / -11											3	0	1	4	-12.2
-20 / -16											2	0	0	2	-17.0
-25 / -21											1		0	1	-21.6
-30 / -26											0			0	-26.3
-35 / -31															
-40 / -36															

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GLEN FALLS/WARREN NY

WMO No. 725185

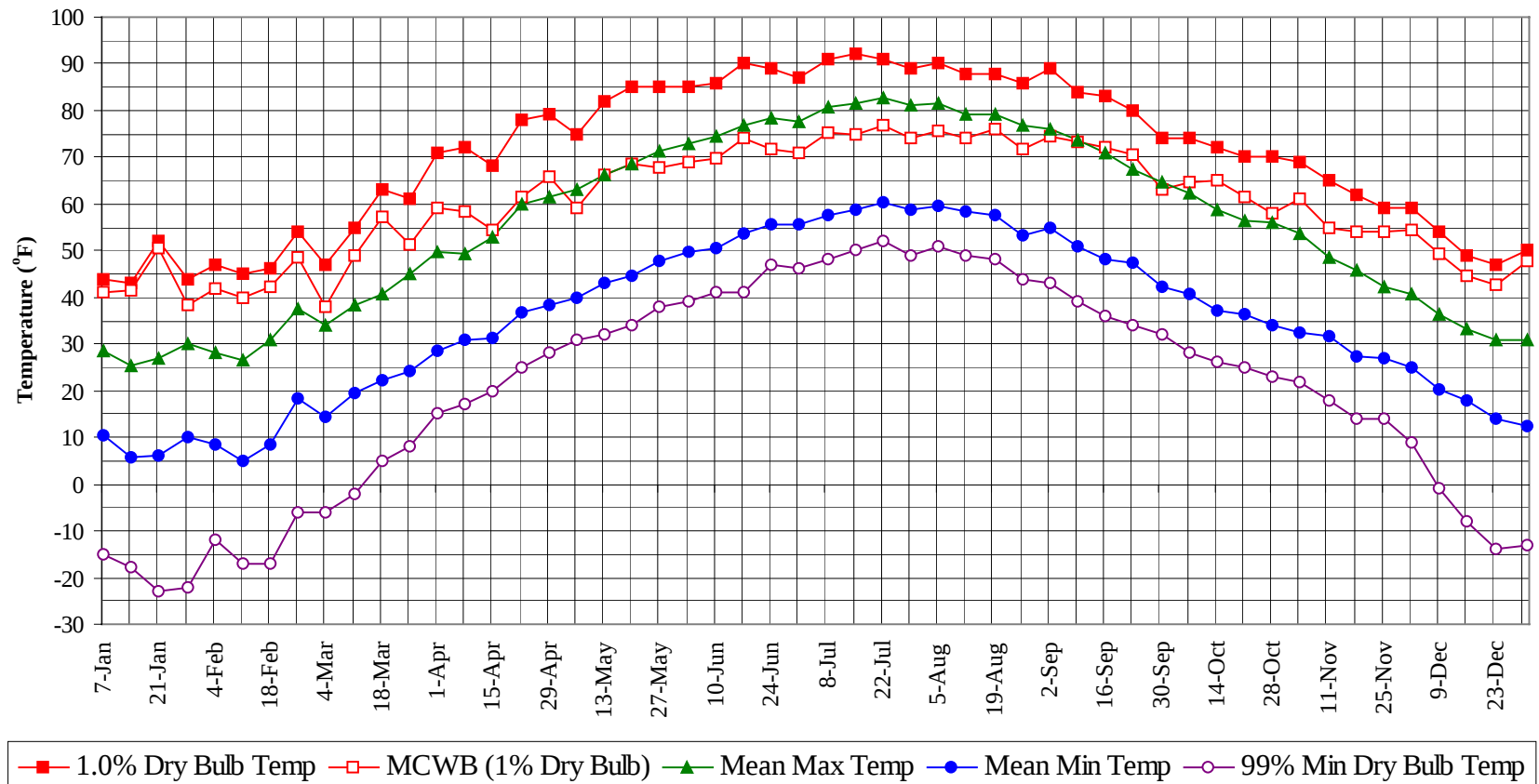
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

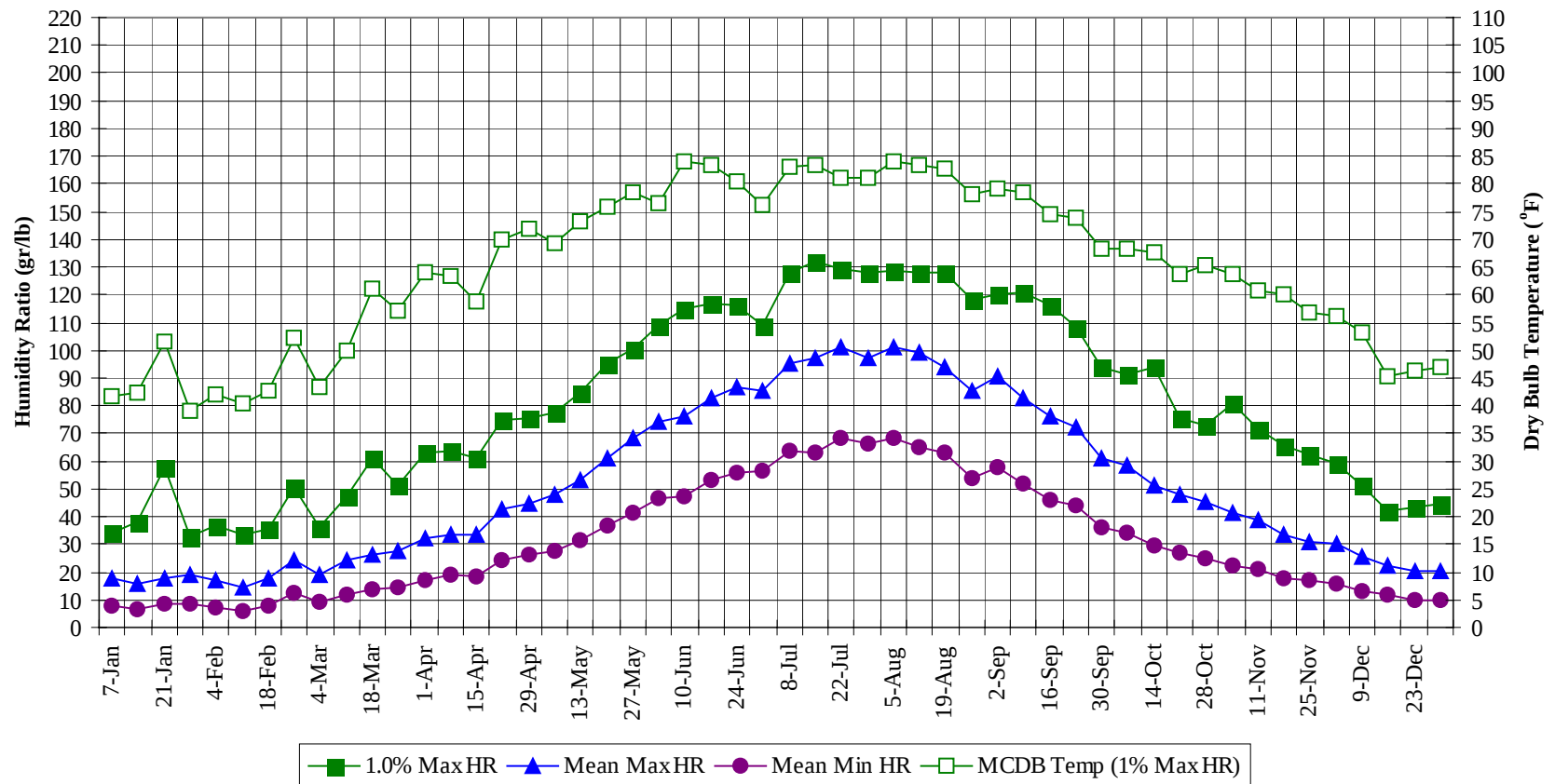
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99		1	0	1	76.8
90 / 94	0	16	3	19	74.8
85 / 89	0	65	19	84	72.0
80 / 84	1	160	59	220	69.3
75 / 79	12	222	110	344	66.5
70 / 74	76	255	185	517	64.2
65 / 69	191	232	237	660	61.1
60 / 64	257	230	251	738	57.0
55 / 59	258	194	237	689	52.6
50 / 54	260	191	219	670	47.9
45 / 49	236	190	205	631	43.2
40 / 44	236	217	225	678	38.4
35 / 39	270	230	258	758	33.9
30 / 34	299	215	273	787	29.6
25 / 29	219	154	190	563	24.6
20 / 24	160	116	132	409	19.9
15 / 19	121	88	108	317	15.2
10 / 14	98	66	87	251	10.5
5 / 9	76	35	53	164	5.9
0 / 4	61	22	34	117	1.1
-5 / -1	29	8	15	52	-3.1
-10 / -6	25	5	11	41	-7.4
-15 / -11	18	2	6	26	-12.0
-20 / -16	9	1	3	13	-16.9
-25 / -21	6	0	1	7	-21.7
-30 / -26	3	0	0	3	-26.2
-35 / -31	0			0	-31.1
-40 / -36	0			0	-35.0

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

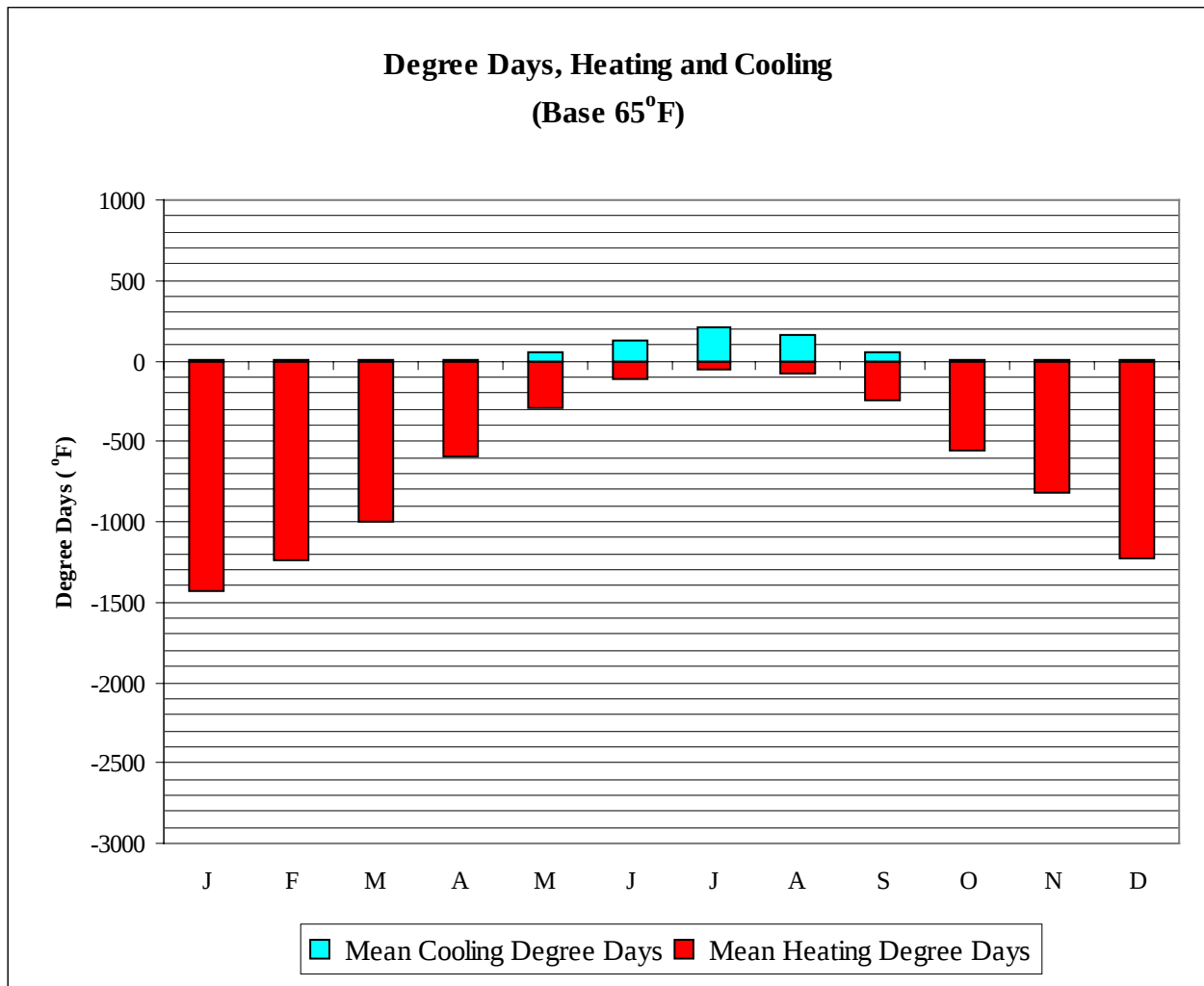


GLEN FALLS/WARREN NY

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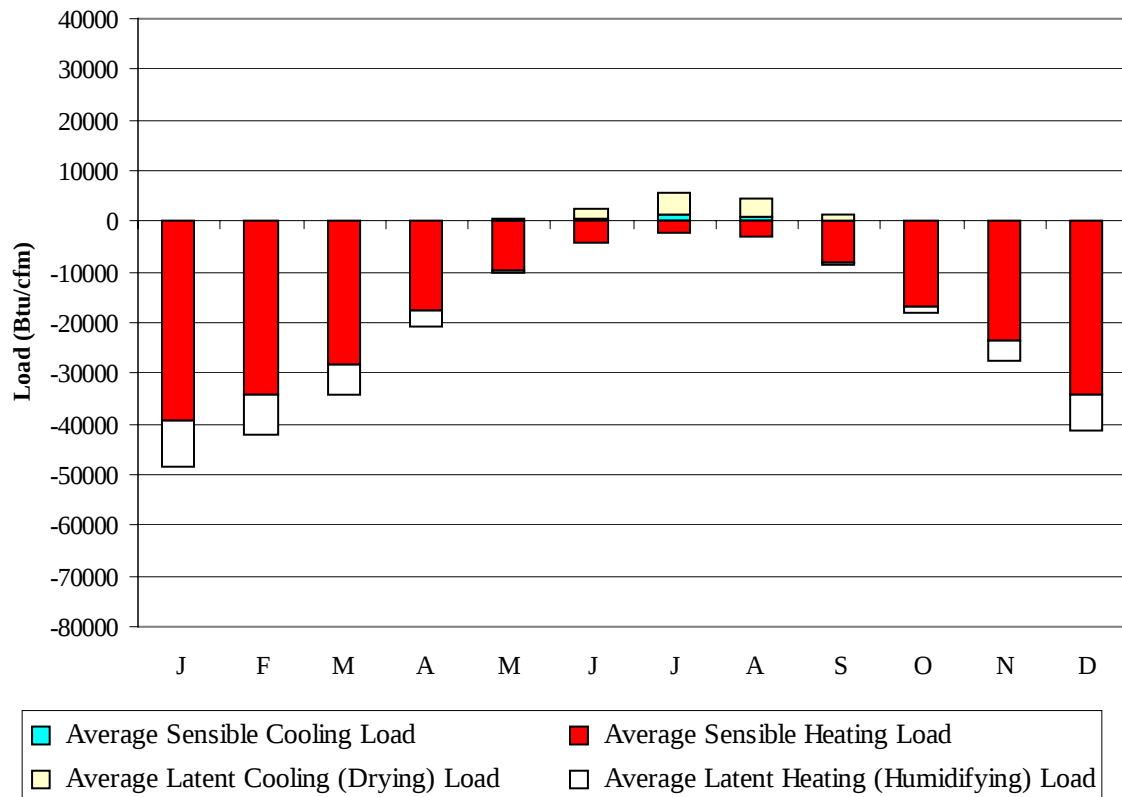
Long Term Dry Bulb Temperature and Humidity Summary

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	44.0	41.0	28.5	10.6	-15.0	34.3	41.7	17.5	8.1
14-Jan	43.0	41.4	25.3	5.7	-18.0	37.8	42.4	16.0	6.7
21-Jan	52.0	50.4	27.0	6.3	-23.0	58.1	51.7	17.7	8.2
28-Jan	44.0	38.4	30.1	10.1	-22.0	32.9	39.0	18.9	8.6
4-Feb	47.0	41.9	28.2	8.3	-12.0	37.1	41.9	16.8	7.2
11-Feb	45.0	39.7	26.6	4.8	-17.0	33.6	40.4	14.7	6.2
18-Feb	46.0	42.4	30.7	8.7	-17.0	35.7	42.7	17.6	7.9
25-Feb	54.0	48.6	37.6	18.2	-6.0	50.4	52.2	24.6	12.5
4-Mar	47.0	38.1	34.1	14.5	-6.0	36.4	43.3	19.3	9.5
11-Mar	55.0	49.0	38.5	19.4	-2.0	47.6	49.8	24.0	11.9
18-Mar	63.0	57.2	40.9	22.3	5.0	60.9	61.2	26.1	13.7
25-Mar	61.0	51.2	44.9	24.1	8.0	51.1	57.2	27.5	14.6
1-Apr	71.0	59.0	49.9	28.6	15.0	63.0	64.1	32.4	17.3
8-Apr	72.0	58.3	49.2	31.1	17.0	63.7	63.4	33.4	19.1
15-Apr	68.0	54.3	52.8	31.1	20.0	60.9	58.9	33.7	18.7
22-Apr	78.0	61.7	59.9	36.8	25.0	74.9	69.8	42.5	24.2
29-Apr	79.0	65.8	61.3	38.4	28.0	75.6	72.0	44.6	26.0
6-May	75.0	59.1	63.0	40.0	31.0	77.7	69.2	48.2	27.8
13-May	82.0	66.1	66.2	42.9	32.0	84.7	73.1	53.2	31.6
20-May	85.0	68.7	68.7	44.7	34.0	95.2	76.0	60.9	36.5
27-May	85.0	67.9	71.5	47.9	38.0	100.8	78.4	68.3	41.6
3-Jun	85.0	68.8	72.9	49.8	39.0	109.2	76.4	74.3	46.9
10-Jun	86.0	69.8	74.4	50.7	41.0	114.8	84.0	75.9	47.1
17-Jun	90.0	74.2	76.9	53.6	41.0	116.9	83.5	82.5	53.5
24-Jun	89.0	71.6	78.5	55.8	47.0	116.2	80.6	86.4	56.0
1-Jul	87.0	71.1	77.7	55.7	46.0	109.2	76.3	85.4	56.5
8-Jul	91.0	75.4	80.6	57.6	48.0	128.1	83.1	95.2	63.6
15-Jul	92.0	74.8	81.7	58.7	50.0	132.3	83.3	97.4	63.3
22-Jul	91.0	76.8	82.8	60.3	52.0	129.5	81.1	101.1	68.1
29-Jul	89.0	74.1	81.0	58.7	49.0	128.1	81.1	97.1	66.3
5-Aug	90.0	75.6	81.6	59.4	51.0	128.8	84.2	101.0	68.6
12-Aug	88.0	74.2	79.1	58.4	49.0	128.1	83.6	98.9	65.2
19-Aug	88.0	76.2	79.1	57.4	48.0	128.1	82.9	94.1	63.2
26-Aug	86.0	71.9	76.8	53.5	44.0	118.3	78.1	85.4	54.2
2-Sep	89.0	74.4	76.2	54.8	43.0	120.4	79.1	90.9	57.8
9-Sep	84.0	73.3	73.5	50.8	39.0	121.1	78.4	83.0	52.1
16-Sep	83.0	72.2	70.8	48.1	36.0	116.2	74.6	76.0	45.7
23-Sep	80.0	70.4	67.3	47.3	34.0	108.5	73.9	71.9	44.1
30-Sep	74.0	63.3	64.7	42.1	32.0	93.8	68.5	60.8	36.1
7-Oct	74.0	64.8	62.1	40.7	28.0	91.0	68.5	58.7	34.1
14-Oct	72.0	65.1	58.8	37.2	26.0	93.8	67.6	51.0	29.4
21-Oct	70.0	61.7	56.4	36.4	25.0	75.6	63.7	47.7	27.0
28-Oct	70.0	58.1	56.0	33.9	23.0	72.8	65.3	45.5	24.9
4-Nov	69.0	61.1	53.5	32.6	22.0	80.5	63.8	41.5	22.4
11-Nov	65.0	54.7	48.7	31.6	18.0	71.4	60.7	38.5	21.1
18-Nov	62.0	54.0	45.9	27.4	14.0	65.8	59.9	33.5	17.6
25-Nov	59.0	54.1	42.4	27.0	14.0	62.3	56.9	31.1	17.2
2-Dec	59.0	54.4	40.7	25.2	9.0	58.8	56.1	30.0	15.8
9-Dec	54.0	49.2	36.4	20.2	-1.0	51.1	53.3	25.3	13.0
16-Dec	49.0	44.5	33.0	17.8	-8.0	42.0	45.2	22.5	12.1
23-Dec	47.0	42.5	31.0	14.0	-14.0	43.4	46.4	20.5	10.1
31-Dec	50.0	47.9	30.9	12.5	-13.0	44.8	47.0	20.5	9.6



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1430
FEB	0	1234
MAR	1	1003
APR	11	598
MAY	50	299
JUN	123	117
JUL	211	49
AUG	161	78
SEP	49	247
OCT	6	560
NOV	1	826
DEC	0	1229
ANN	614	7670

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



	Average Sensible Cooling Load	Average Sensible Heating Load	Average Latent Cooling Load	Average Latent Heating Load
	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)
JAN	0	-39465	0	-8849
FEB	0	-34177	0	-7773
MAR	4	-28396	0	-5947
APR	42	-17706	8	-2947
MAY	244	-9679	312	-565
JUN	695	-4329	1632	-22
JUL	1453	-2121	4093	-4
AUG	908	-3106	3604	-3
SEP	169	-8235	1047	-132
OCT	7	-16838	80	-1364
NOV	0	-23717	11	-3710
DEC	0	-34275	0	-7007
ANN	3522	-222044	10787	-38323

Average Annual Solar Radiation – Nearest Available Site

(Source: National Renewable Energy Laboratory, Golden CO, 1995)

City: ALBANY
 State: NY
 WBAN No: 14735
 Lat(N): 42.75
 Long(W): 73.8
 Elev(ft): 292

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.613
 Vert Gap: 0.329

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	560	830	1140	1470	1720	1890	1900	1630	1290	890	540	440	1190
	Std Dev	56	75	85	115	148	136	102	83	101	79	46	39	32
	Minimum	370	610	900	1220	1430	1600	1610	1320	900	650	440	340	1030
	Maximum	670	1050	1280	1700	2030	2170	2090	1820	1450	1140	630	510	1290
	Diffuse	330	460	590	730	850	910	880	770	610	450	340	280	600
Clear Day	Global	780	1140	1650	2160	2520	2650	2550	2240	1770	1250	830	670	1690
NORTH	Global	190	270	350	440	550	620	590	480	370	270	190	160	370
	Diffuse	190	270	350	430	500	540	530	460	370	270	190	160	360
Clear Day	Global	170	230	310	420	570	690	620	470	340	250	170	150	370
EAST	Global	380	540	700	880	980	1050	1070	960	780	560	350	290	710
	Diffuse	230	330	430	520	600	640	640	570	450	330	230	190	430
Clear Day	Global	620	840	1120	1360	1480	1520	1480	1370	1160	890	640	540	1090
SOUTH	Global	900	1050	1050	960	860	830	880	960	1050	1020	740	700	920
	Diffuse	350	450	500	550	580	600	600	580	510	420	330	300	480
Clear Day	Global	1800	1940	1870	1500	1170	1020	1070	1340	1670	1860	1780	1700	1560
WEST	Global	380	540	710	860	970	1050	1060	960	800	580	350	300	710
	Diffuse	240	330	430	520	610	650	650	570	460	340	230	200	440
Clear Day	Global	620	840	1120	1360	1480	1520	1480	1370	1160	890	640	540	1090

Average Annual Solar Heat and Illumination – Nearest Available Site

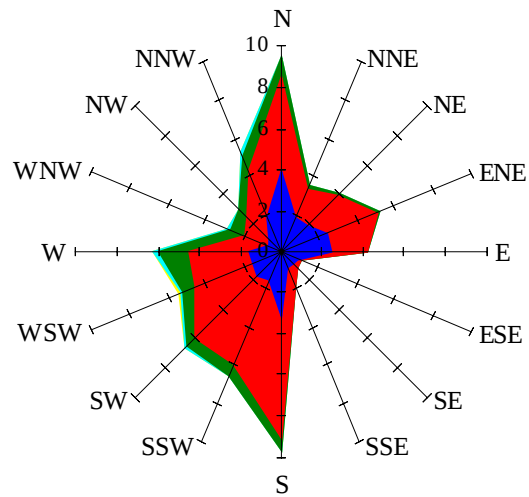
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	360	560	800	1050	1240	1370	1380	1170	920	610	350	280	840
NORTH	Unshaded	130	180	240	300	360	410	390	330	260	190	130	110	250
	Shaded	110	160	210	260	310	350	340	280	220	160	110	92	220
EAST	Unshaded	260	380	500	630	700	750	760	680	550	390	240	200	500
	Shaded	220	320	420	520	580	610	620	560	460	340	210	170	420
SOUTH	Unshaded	670	770	730	640	550	520	550	620	720	740	550	530	630
	Shaded	650	700	560	400	350	360	360	370	500	640	520	510	490
WEST	Unshaded	260	380	500	610	690	750	750	680	570	410	240	200	500
	Shaded	230	330	420	510	570	610	620	570	480	350	210	180	420

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	69	76	59	22	50	84	99	91	65
	M.Cloudy	23	43	47	37	14	31	54	69	65	43
NORTH	M.Clear	10	14	14	12	7	15	16	17	17	15
	M.Cloudy	9	15	16	14	6	13	18	19	19	15
EAST	M.Clear	72	52	14	12	7	79	70	28	17	15
	M.Cloudy	26	29	16	14	6	33	40	25	19	15
SOUTH	M.Clear	43	76	84	65	24	12	37	52	45	22
	M.Cloudy	18	37	40	31	10	12	27	38	34	18
WEST	M.Clear	10	14	26	67	59	12	16	17	54	79
	M.Cloudy	9	15	20	32	19	12	18	19	38	41
M.Clear	(% hrs)	28	25	25	26	28	33	31	25	25	28
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	30	65	81	72	43	12	36	39	22	0
	M.Cloudy	17	40	54	48	26	8	21	23	13	0
NORTH	M.Clear	9	14	15	15	11	5	9	10	7	0
	M.Cloudy	7	14	17	16	10	4	9	10	6	0
EAST	M.Clear	66	66	24	15	11	33	34	10	7	0
	M.Cloudy	20	33	21	16	10	9	14	10	6	0
SOUTH	M.Clear	24	60	78	68	37	32	77	82	51	0
	M.Cloudy	11	31	44	39	19	9	24	27	15	0
WEST	M.Clear	9	14	15	54	73	5	9	22	41	0
	M.Cloudy	7	14	17	33	31	4	9	13	13	0
M.Clear	(% hrs)	36	33	30	31	33	22	20	21	23	25

Wind Summary - December, January, and February

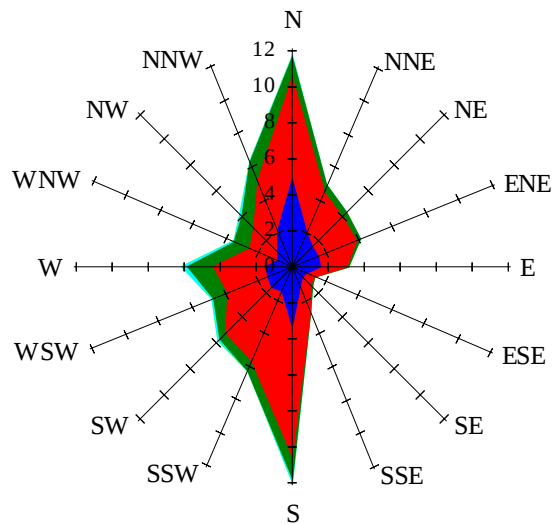
Labels of Percent Frequency on North Axis



Percent Calm = 24.36

Wind Summary - March, April, and May

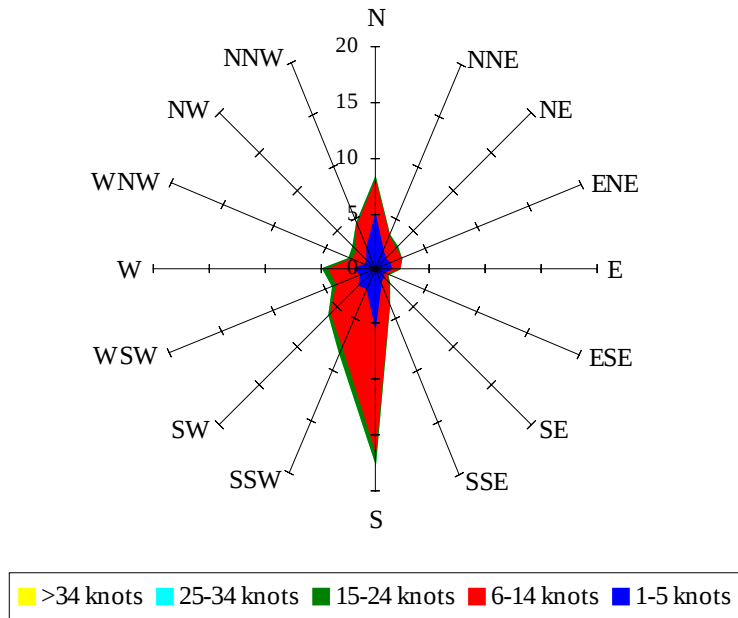
Labels of Percent Frequency on North Axis



Percent Calm = 18.13

Wind Summary - June, July, and August

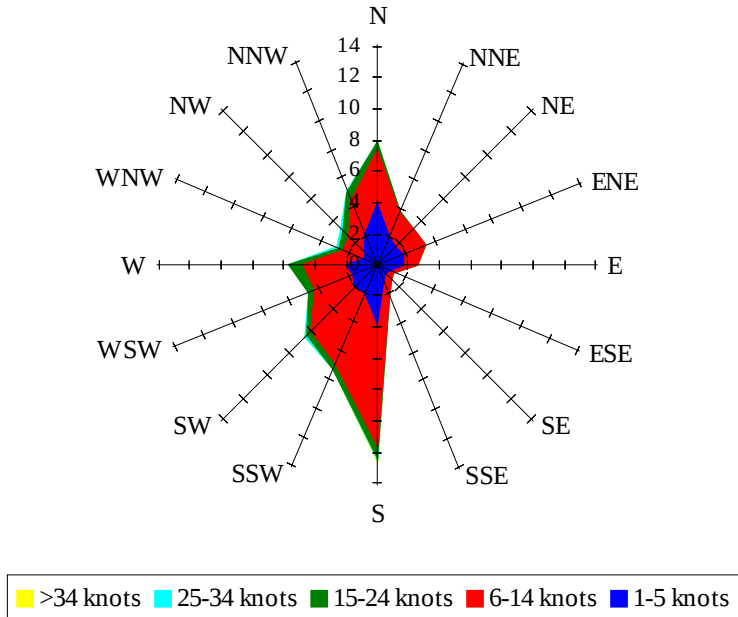
Labels of Percent Frequency on North Axis



Percent Calm = 25.25

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 27.21