

ALBANY NY	
Latitude = 42.75 N	WMO No. 725180
Longitude = 73.80 W	Elevation = 292 feet
Period of Record = 1968 to 1996	Average Pressure = 29.69 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	94	76	107	10.0	W
0.4% Occurrence	89	73	99	10.5	S
1.0% Occurrence	86	72	95	10.2	S
2.0% Occurrence	83	70	90	10.2	S
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	7	6	5	8.3	N
99.0% Occurrence	1	0	4	7.7	N
99.6% Occurrence	-4	-5	3	6.2	N
Median of Extreme Lows	-14	-14	2	4.4	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	89	130	9.5	S
0.4% Occurrence	76	85	119	9.7	S
1.0% Occurrence	74	82	112	9.4	S
2.0% Occurrence	72	79	106	9.1	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	137	85	0.90	9.2	S
0.4% Occurrence	124	81	0.82	8.5	S
1.0% Occurrence	116	79	0.77	8.5	S
2.0% Occurrence	109	76	0.72	9.0	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		6	379	160	820

Other Site Data

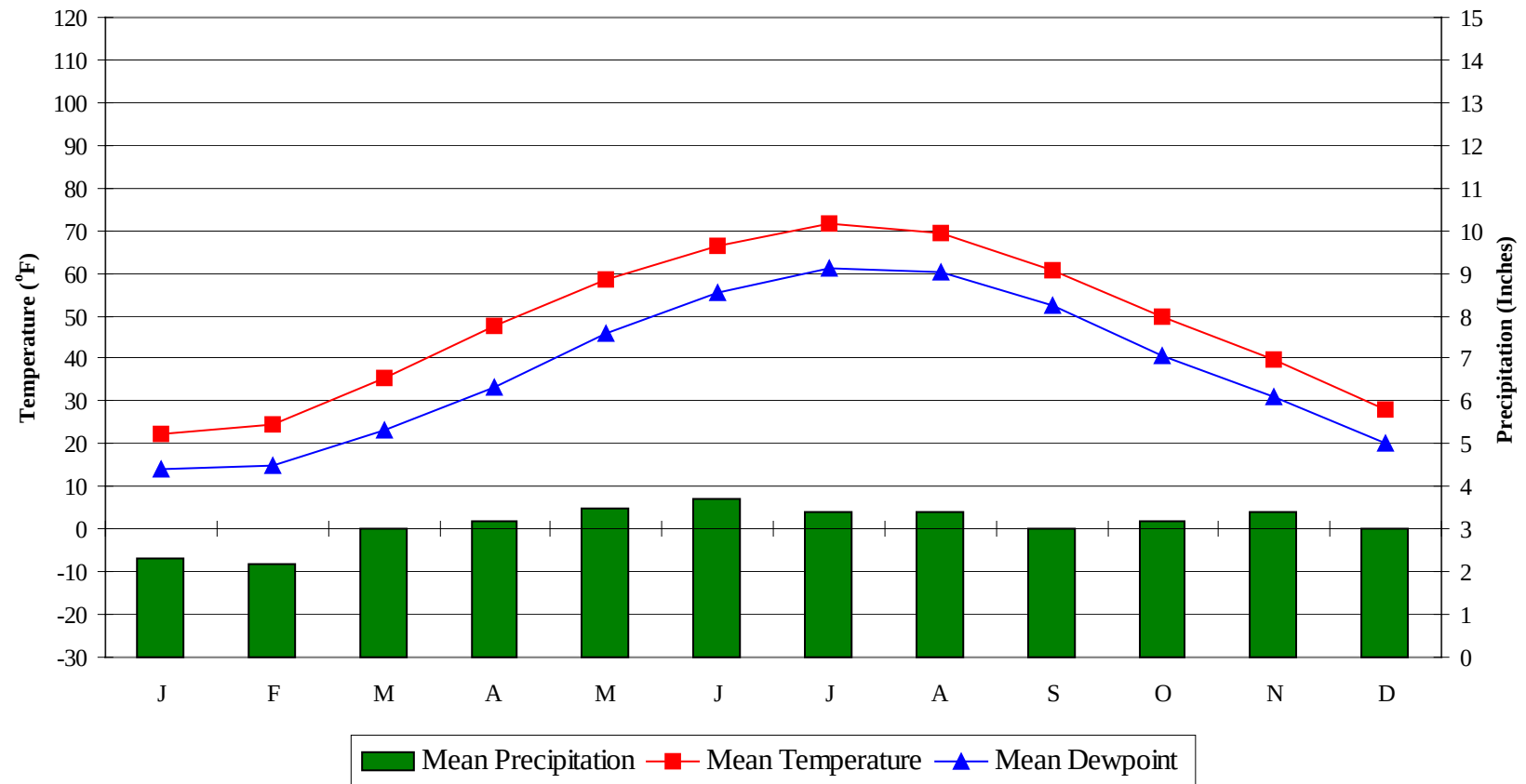
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
6	2.5	90	1.1 + 0.4
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
50.3	82	27	69

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

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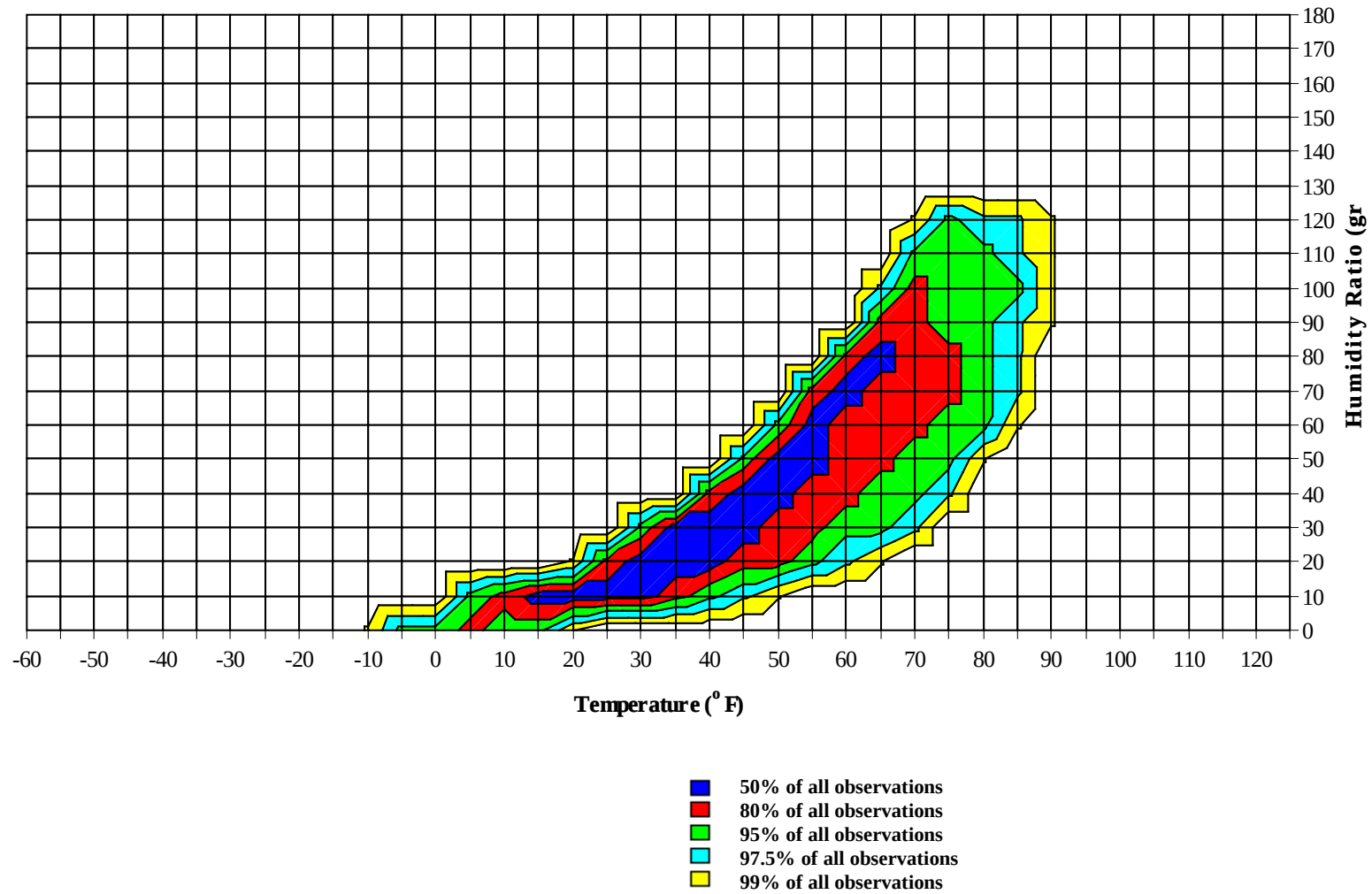
Average Annual Climate



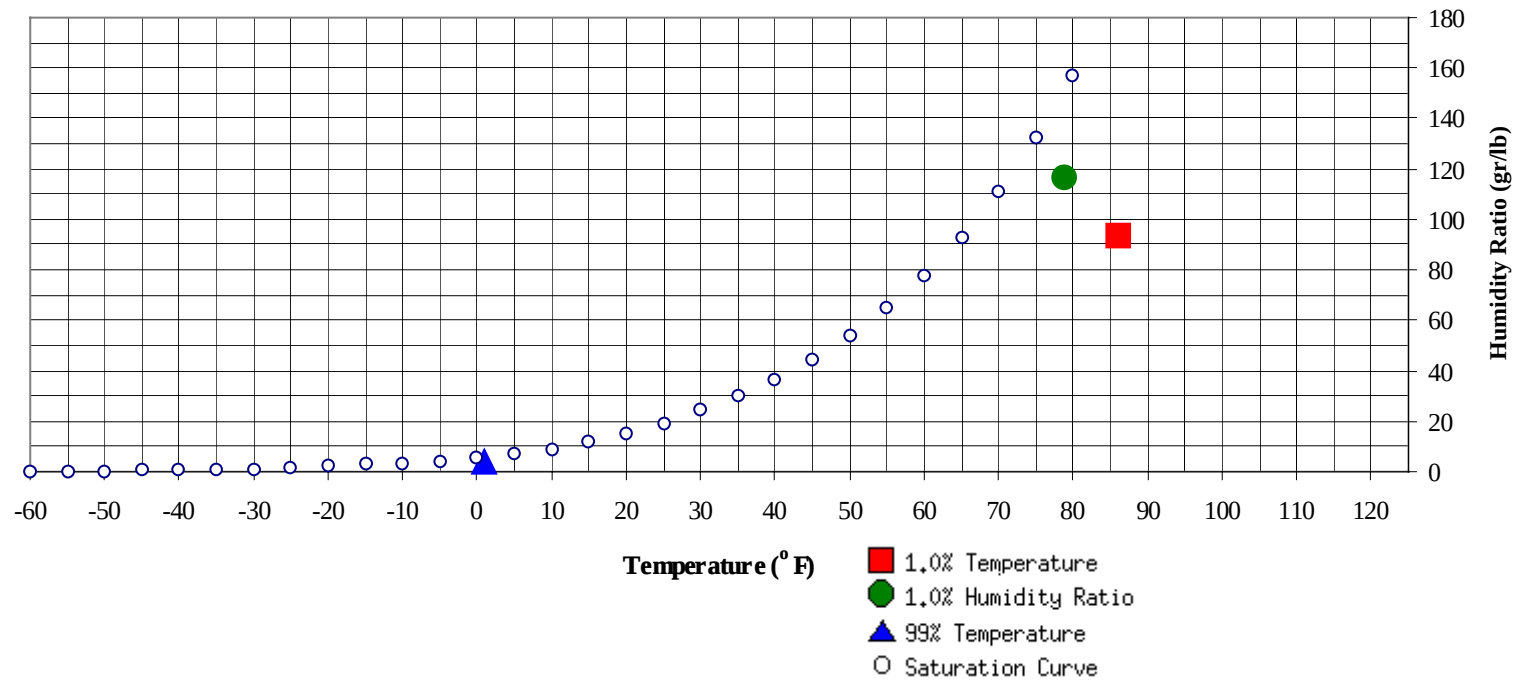
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Long Term Psychrometric Summary



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	1	3.7	0.8		116.2	78.7	73.3	71.1	37.1

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	86	93.8	71.5	35.4

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

Period of Record = 1968 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												0		0	62.0
80 / 84												0	0	1	61.1
75 / 79												1	0	1	60.4
70 / 74												2	1	3	57.5
65 / 69		0		0	62.0		0		0	55.2	0	4	2	6	54.2
60 / 64	0	1	0	1	58.7		1	0	1	52.9	1	8	4	12	51.8
55 / 59	1	1	1	3	53.3	0	2	1	3	50.9	3	11	7	21	48.4
50 / 54	1	3	2	6	47.9	1	4	3	8	46.4	6	19	13	39	44.9
45 / 49	1	5	3	9	42.8	4	8	6	19	42.3	13	28	20	62	41.2
40 / 44	5	14	10	30	37.8	10	21	13	44	37.6	19	46	35	101	36.9
35 / 39	25	34	29	87	33.8	21	32	29	82	33.4	46	50	50	146	33.1
30 / 34	34	40	36	110	29.3	25	35	34	94	28.9	51	36	49	135	28.7
25 / 29	32	40	39	110	24.5	28	35	37	100	24.0	37	22	30	89	23.8
20 / 24	31	34	34	99	19.8	30	29	30	89	19.4	30	11	18	58	19.4
15 / 19	28	28	30	86	15.2	29	25	30	84	15.0	21	6	11	39	15.1
10 / 14	27	20	26	73	10.6	26	15	21	62	10.4	11	3	5	19	10.4
5 / 9	24	15	18	56	5.8	21	9	12	43	5.7	7	1	1	8	5.9
0 / 4	17	9	10	36	1.1	14	4	6	25	1.1	3	0	0	3	1.1
-5 / -1	9	3	6	19	-3.3	7	1	2	10	-3.1	1	0		1	-2.8
-10 / -6	6	2	2	10	-7.4	4	1	1	5	-7.4		0		0	-6.0
-15 / -11	4	0	1	6	-12.3	2		0	2	-12.0					
-20 / -16	2	0	0	2	-16.2	1		0	1	-16.8					
-25 / -21	0			0	-21.7										

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.

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Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**Period of Record = 1968 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	73.2
90 / 94		0		0	65.4		1	0	1	71.3		3	1	4	73.3
85 / 89		1	0	2	65.3		6	2	8	68.0	0	14	4	18	71.2
80 / 84		3	1	4	62.3	0	14	5	19	66.5	1	35	14	50	68.3
75 / 79		5	2	8	59.6	1	21	11	33	63.1	3	51	29	83	65.5
70 / 74	0	10	6	17	57.1	3	35	21	58	60.0	19	55	46	120	63.5
65 / 69	1	19	10	30	54.3	13	45	32	90	57.7	50	39	52	142	61.3
60 / 64	6	27	18	52	51.2	29	45	41	115	54.7	59	25	43	127	57.7
55 / 59	13	31	27	71	48.6	47	40	49	136	51.6	53	12	33	98	54.0
50 / 54	26	39	36	100	45.0	58	25	44	127	48.1	34	3	15	52	49.6
45 / 49	39	45	43	126	41.3	47	10	27	85	43.6	17	0	3	20	45.5
40 / 44	49	36	45	130	37.6	33	3	13	48	39.2	5		1	6	41.0
35 / 39	46	16	31	92	33.5	14	1	3	18	35.2	1			1	37.4
30 / 34	38	5	15	58	29.1	4		0	5	30.5					
25 / 29	18	2	4	24	24.7	0			0	26.9					
20 / 24	4	0	1	5	19.9										
15 / 19	1	0	0	2	15.3										
10 / 14	0	0		0	11.0										
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 (Sheet 3 of 5)**Period of Record = 1968 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	76.5		0		0	77.3					
90 / 94		11	2	13	75.4		5	1	6	75.2		1	0	1	75.0
85 / 89	0	34	10	44	72.4		21	5	26	73.1		4	0	4	73.5
80 / 84	2	61	29	92	69.6	0	52	18	71	70.2		15	2	17	70.2
75 / 79	12	64	49	125	67.7	7	64	38	109	68.0	2	28	12	41	67.0
70 / 74	50	46	64	161	66.0	39	56	62	157	66.1	9	43	24	77	64.2
65 / 69	72	22	51	145	63.1	68	30	59	158	63.3	23	50	37	110	60.9
60 / 64	61	6	30	97	59.4	58	13	37	108	59.2	39	48	52	140	57.7
55 / 59	33	1	12	45	55.1	41	4	21	66	55.1	52	33	51	136	53.6
50 / 54	15	0	2	17	50.8	25	0	6	31	51.1	48	13	35	96	49.7
45 / 49	4		0	4	46.8	9	0	1	10	46.4	33	2	16	51	45.4
40 / 44	0			0	42.5	2		0	2	41.9	22	0	8	30	41.1
35 / 39						0			0	36.0	11	0	2	13	36.5
30 / 34											2		0	3	32.2
25 / 29											0			0	28.4
20 / 24															
15 / 19															
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 (Sheet 4 of 5)**Period of Record = 1968 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		0		0	69.3										
80 / 84		1	0	1	66.2										
75 / 79		4	1	5	65.0		0		0	62.6					
70 / 74	0	13	4	17	62.2	0	3	0	3	61.4		0		0	60.5
65 / 69	2	25	11	39	59.0	1	5	2	8	59.4		0	0	0	60.0
60 / 64	12	35	24	71	55.8	4	8	6	18	55.9	0	1	0	1	56.6
55 / 59	25	45	35	105	51.9	8	14	11	33	51.7	1	2	2	5	53.2
50 / 54	34	53	45	133	47.3	14	28	18	60	46.8	2	5	3	10	47.5
45 / 49	45	40	47	131	43.2	24	39	32	95	42.7	5	10	8	23	42.7
40 / 44	49	21	44	114	39.1	34	53	43	130	37.9	15	26	17	59	38.1
35 / 39	40	6	26	72	35.0	47	44	47	138	33.6	33	49	41	123	33.9
30 / 34	27	1	10	38	30.8	48	30	47	125	29.6	50	52	56	157	29.5
25 / 29	13	0	3	15	26.4	38	9	24	71	25.2	38	34	40	112	24.6
20 / 24	2		0	2	22.0	15	3	8	26	20.4	31	28	26	85	19.8
15 / 19	0			0	17.9	8	1	3	12	16.1	25	18	22	64	15.3
10 / 14						2	0	1	2	11.6	20	13	18	51	10.7
5 / 9						0			0	7.9	12	5	9	27	6.2
0 / 4											9	2	4	15	1.4
-5 / -1											3	1	1	5	-2.9
-10 / -6											2	0	1	4	-7.1
-15 / -11											1	0	0	1	-11.6
-20 / -16											0	0		0	-17.7
-25 / -21															

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ALBANY NY

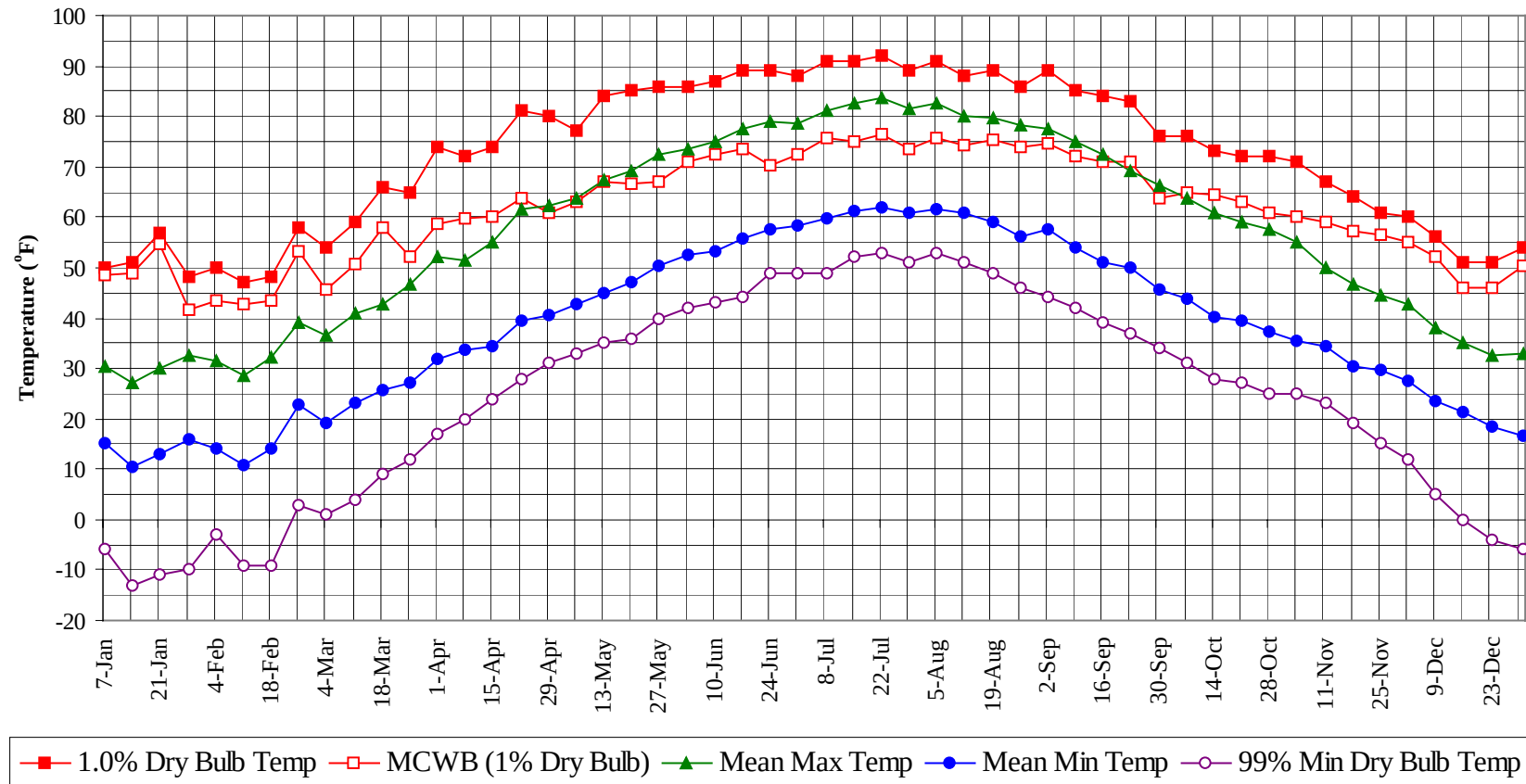
WMO No. 725180

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**Period of Record = 1968 to 1996**

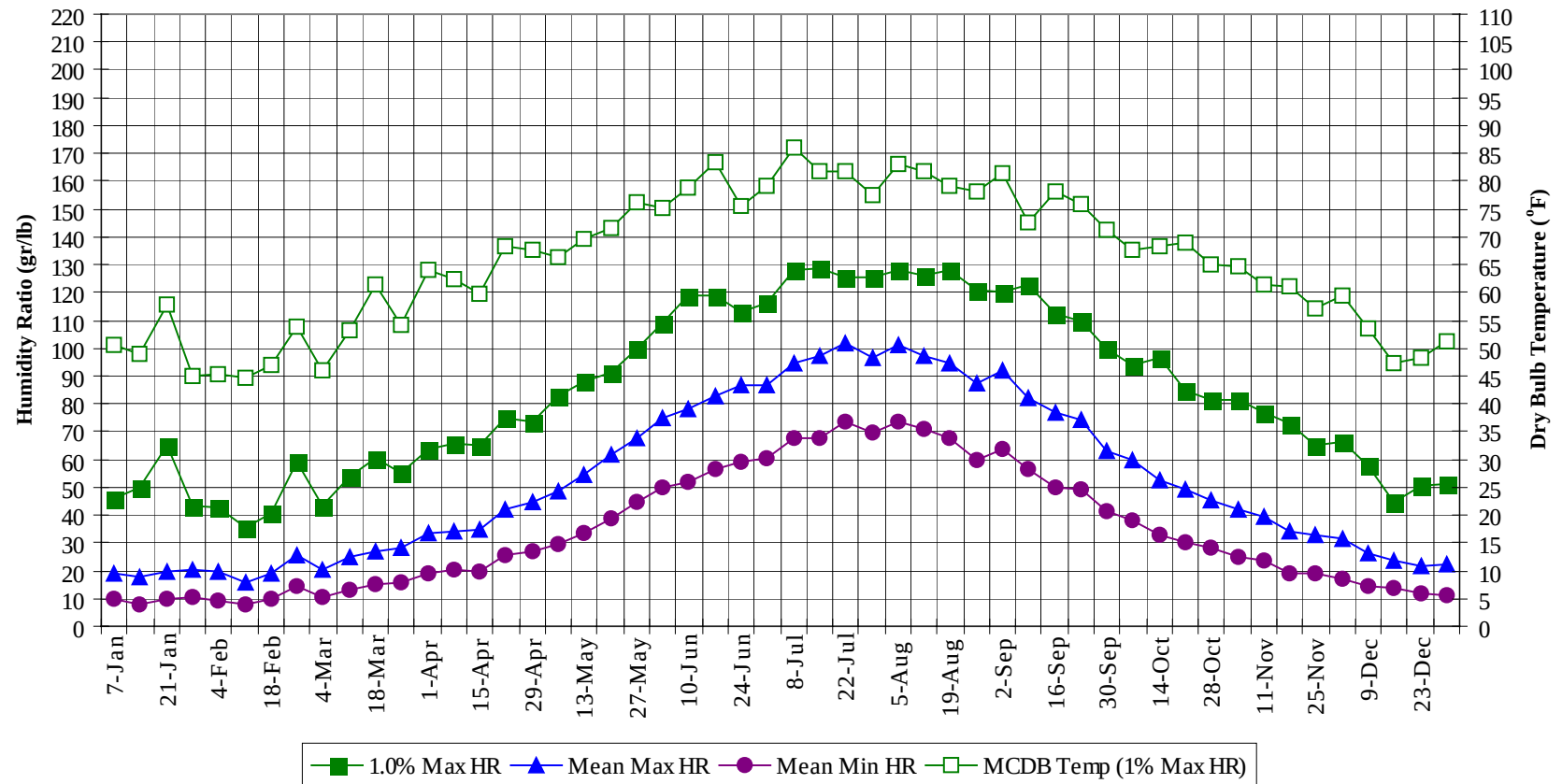
Temperature Range (°F)	Annual Totals				
	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99		1	0	2	76.2
90 / 94		21	4	25	74.7
85 / 89	0	80	21	100	72.0
80 / 84	3	180	69	252	69.2
75 / 79	25	236	140	401	66.7
70 / 74	120	261	228	608	64.3
65 / 69	230	237	255	722	61.1
60 / 64	267	217	254	738	56.9
55 / 59	277	196	246	719	52.5
50 / 54	263	192	221	677	47.7
45 / 49	239	189	208	636	42.9
40 / 44	245	222	229	696	38.1
35 / 39	285	233	260	777	33.8
30 / 34	281	200	249	730	29.3
25 / 29	207	143	177	526	24.4
20 / 24	144	106	118	368	19.7
15 / 19	114	79	96	289	15.2
10 / 14	88	52	71	211	10.5
5 / 9	65	30	41	136	5.9
0 / 4	44	15	21	80	1.1
-5 / -1	20	5	10	35	-3.1
-10 / -6	12	3	4	19	-7.4
-15 / -11	7	1	1	9	-12.1
-20 / -16	3	0	0	3	-16.5
-25 / -21	0			0	-21.7

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



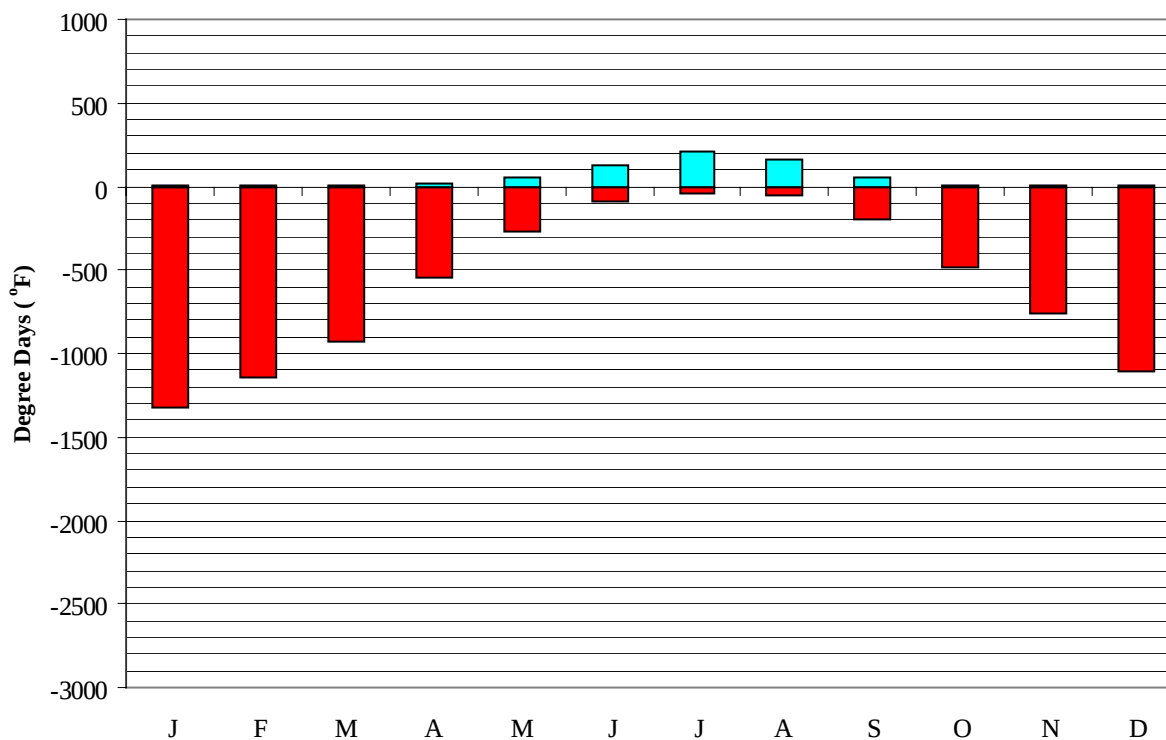
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Long Term Dry Bulb Temperature and Humidity Summary

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	50.0	48.5	30.5	15.2	-6.0	46.2	50.7	19.3	9.7
14-Jan	51.0	48.9	27.1	10.5	-13.0	49.7	49.0	17.6	8.2
21-Jan	57.0	54.6	30.1	12.9	-11.0	65.1	57.7	19.5	10.0
28-Jan	48.0	41.6	32.7	15.9	-10.0	43.4	44.9	20.5	10.4
4-Feb	50.0	43.5	31.3	14.1	-3.0	42.7	45.4	19.5	9.2
11-Feb	47.0	42.8	28.6	10.7	-9.0	35.7	44.6	16.0	7.7
18-Feb	48.0	43.4	32.2	14.1	-9.0	40.6	47.0	18.9	9.6
25-Feb	58.0	53.2	39.2	22.7	3.0	58.8	53.9	25.8	14.1
4-Mar	54.0	45.7	36.4	19.3	1.0	43.4	45.9	20.4	10.7
11-Mar	59.0	50.6	41.0	23.0	4.0	53.9	53.1	25.2	13.4
18-Mar	66.0	58.0	42.7	25.5	9.0	60.2	61.4	26.8	15.1
25-Mar	65.0	52.3	46.7	27.3	12.0	55.3	54.1	28.1	15.8
1-Apr	74.0	58.7	52.2	32.0	17.0	63.7	64.1	33.8	19.1
8-Apr	72.0	59.6	51.3	33.7	20.0	65.8	62.4	34.5	20.1
15-Apr	74.0	60.3	54.9	34.5	24.0	65.1	59.7	34.5	19.8
22-Apr	81.0	63.9	61.4	39.3	28.0	74.9	68.2	42.0	25.3
29-Apr	80.0	60.9	62.4	40.7	31.0	73.5	67.5	44.9	26.7
6-May	77.0	63.2	63.9	42.6	33.0	82.6	66.2	48.7	29.4
13-May	84.0	66.8	67.4	44.9	35.0	88.2	69.7	54.7	33.2
20-May	85.0	66.6	69.4	47.1	36.0	91.0	71.7	61.7	38.9
27-May	86.0	67.0	72.5	50.2	40.0	100.1	76.3	68.0	44.9
3-Jun	86.0	70.9	73.6	52.6	42.0	109.2	75.0	74.9	49.6
10-Jun	87.0	72.5	75.0	53.4	43.0	119.0	78.7	78.0	51.6
17-Jun	89.0	73.4	77.4	55.6	44.0	119.0	83.4	82.6	56.6
24-Jun	89.0	70.3	78.9	57.7	49.0	112.7	75.4	86.9	58.8
1-Jul	88.0	72.3	78.6	58.2	49.0	116.2	79.0	86.8	60.3
8-Jul	91.0	75.6	81.3	59.9	49.0	128.1	86.0	94.7	67.7
15-Jul	91.0	74.9	82.5	61.1	52.0	128.8	81.9	97.5	67.7
22-Jul	92.0	76.6	83.9	62.1	53.0	125.3	81.7	101.7	73.8
29-Jul	89.0	73.6	81.4	60.9	51.0	125.3	77.6	96.5	69.9
5-Aug	91.0	75.7	82.5	61.5	53.0	128.1	83.0	101.0	73.9
12-Aug	88.0	74.1	79.9	60.8	51.0	126.0	81.7	97.4	71.1
19-Aug	89.0	75.5	79.9	59.1	49.0	128.1	79.2	94.4	67.8
26-Aug	86.0	73.8	78.1	56.1	46.0	121.1	78.0	87.6	59.6
2-Sep	89.0	74.5	77.5	57.5	44.0	120.4	81.5	92.3	63.5
9-Sep	85.0	72.0	75.1	54.0	42.0	122.5	72.5	81.8	56.5
16-Sep	84.0	70.9	72.4	51.1	39.0	112.0	78.0	76.7	49.9
23-Sep	83.0	71.1	69.2	49.8	37.0	109.9	75.9	74.3	48.9
30-Sep	76.0	63.8	66.4	45.5	34.0	100.1	71.4	63.2	41.1
7-Oct	76.0	65.0	63.6	43.9	31.0	93.8	67.8	59.7	38.2
14-Oct	73.0	64.4	60.8	40.3	28.0	96.6	68.4	52.8	32.7
21-Oct	72.0	62.9	59.0	39.6	27.0	84.7	69.0	49.6	30.3
28-Oct	72.0	60.8	57.7	37.3	25.0	81.2	65.0	45.5	27.9
4-Nov	71.0	60.2	55.2	35.4	25.0	81.2	64.6	41.9	25.0
11-Nov	67.0	59.0	50.0	34.4	23.0	77.0	61.4	39.2	23.5
18-Nov	64.0	57.3	46.9	30.5	19.0	72.8	60.9	34.1	19.0
25-Nov	61.0	56.3	44.5	29.7	15.0	65.1	57.2	32.5	19.2
2-Dec	60.0	55.1	42.7	27.4	12.0	66.5	59.4	31.5	17.2
9-Dec	56.0	52.3	38.2	23.6	5.0	58.1	53.6	26.6	14.4
16-Dec	51.0	45.9	35.2	21.3	0.0	44.8	47.4	23.7	13.6
23-Dec	51.0	46.0	32.7	18.3	-4.0	50.4	48.4	21.6	11.9
31-Dec	54.0	50.3	32.8	16.7	-6.0	51.1	51.4	22.4	11.4

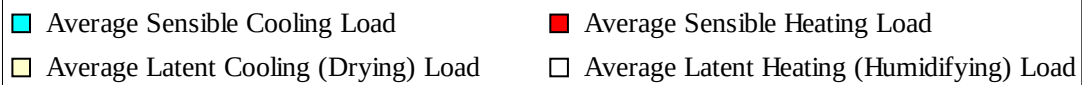
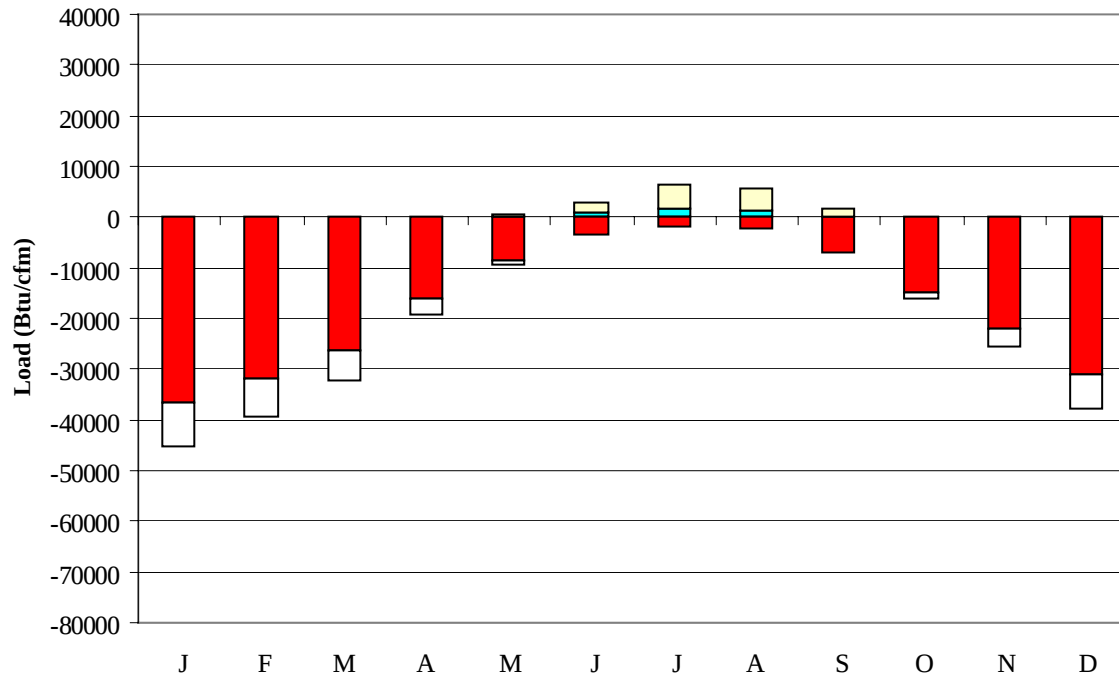
Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1321
FEB	0	1141
MAR	2	925
APR	13	541
MAY	52	264
JUN	121	93
JUL	206	37
AUG	164	59
SEP	57	198
OCT	9	489
NOV	1	760
DEC	0	1105
ANN	624	6933

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



	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	-36650	0	-8589
FEB	0	-31785	0	-7687
MAR	7	-26351	0	-5870
APR	63	-16219	5	-2879
MAY	311	-8701	378	-495
JUN	784	-3581	1935	-12
JUL	1694	-1651	4883	0
AUG	1127	-2427	4535	-1
SEP	258	-6823	1358	-72
OCT	16	-14933	111	-1109
NOV	0	-22011	15	-3452
DEC	0	-30951	0	-6636
ANN	4260	-202083	13220	-36802

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

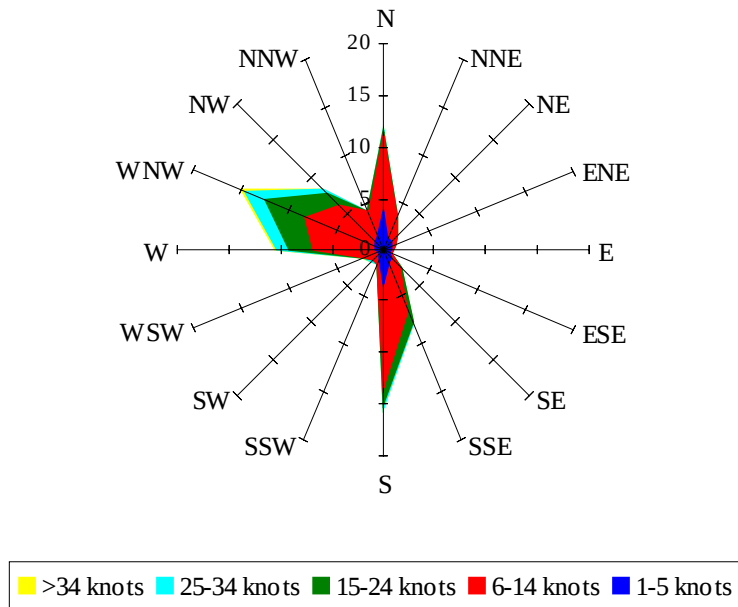
Average Annual Solar Heat and Illumination – Nearest Available Site

(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

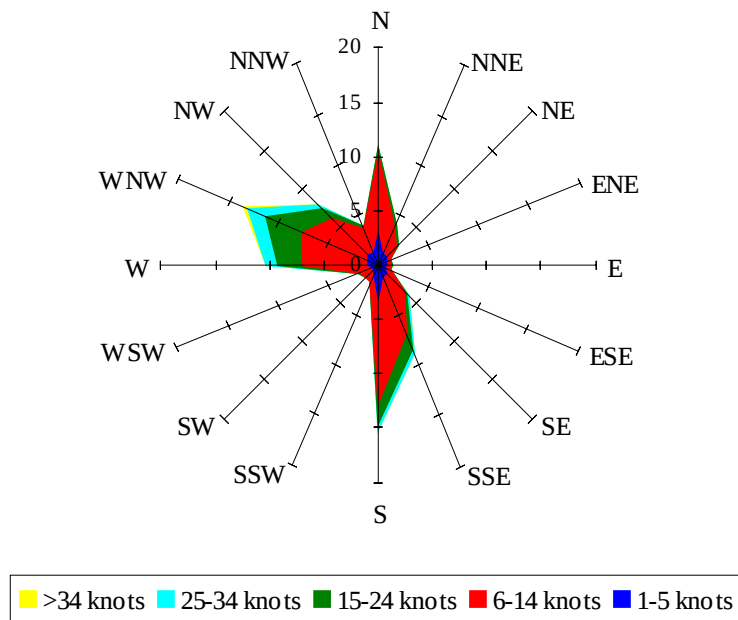
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	39	69	76	59	22	50	84	99	91	65
	M.Cloudy	23	43	47	37	14	31	54	69	65	43
NORTH	M.Clear	10	14	14	12	7	15	16	17	17	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 = 11.61

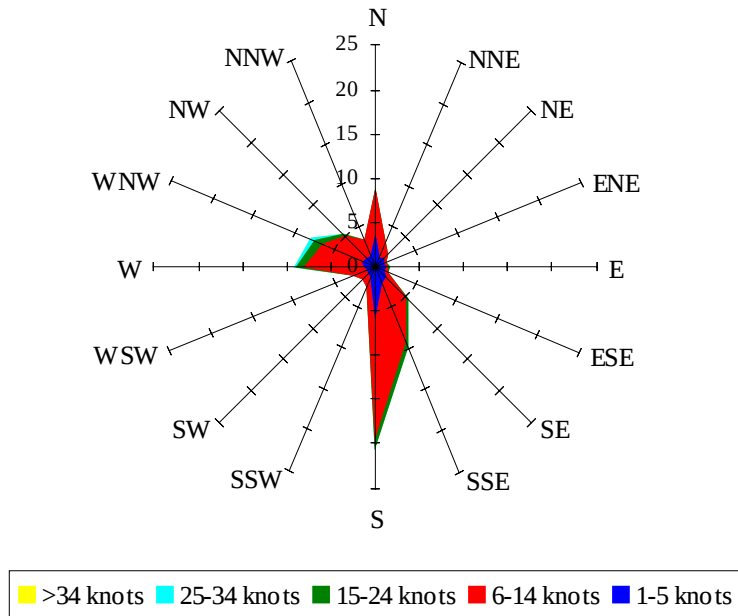
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 10.81

Wind Summary - June, July, and August

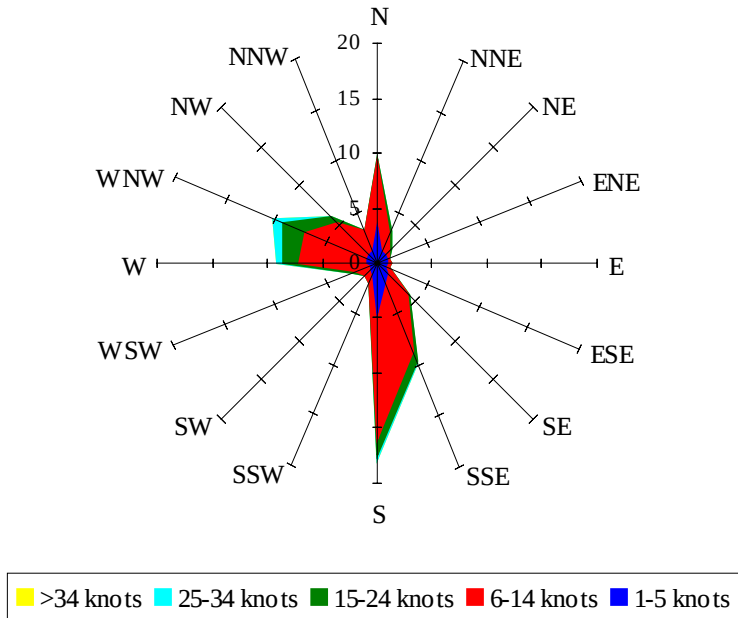
Labels of Percent Frequency on North Axis



Percent Calm = 15.64

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 16.08