

PLATTSBURGH AFB NY

Latitude = 44.65 N

WMO No. 726225

Longitude = 73.47 W

Elevation = 236 feet

Period of Record = 1966 to 1995

Average Pressure = 29.70 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	73	92	10.7	W
0.4% Occurrence	86	71	91	9.1	W
1.0% Occurrence	83	69	87	8.8	SSE
2.0% Occurrence	80	68	86	8.9	SSE
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	1	0	4	5.0	NW
99.0% Occurrence	-6	-7	3	3.7	NW
99.6% Occurrence	-11	-12	2	3.3	WNW
Median of Extreme Lows	-20	-20	1	3.4	WSW
	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	77	87	126	9.0	SE
0.4% Occurrence	74	83	113	8.2	SE
1.0% Occurrence	72	80	106	7.7	SSE
2.0% Occurrence	70	77	99	7.2	SSE
	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	130	80	0.85	13.2	SE
0.4% Occurrence	116	79	0.77	7.2	SSE
1.0% Occurrence	109	77	0.72	6.4	SSE
2.0% Occurrence	101	74	0.67	6.8	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		3	190	62	486

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	0.6 + 0.2
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 (#)
46.8	107	40	66

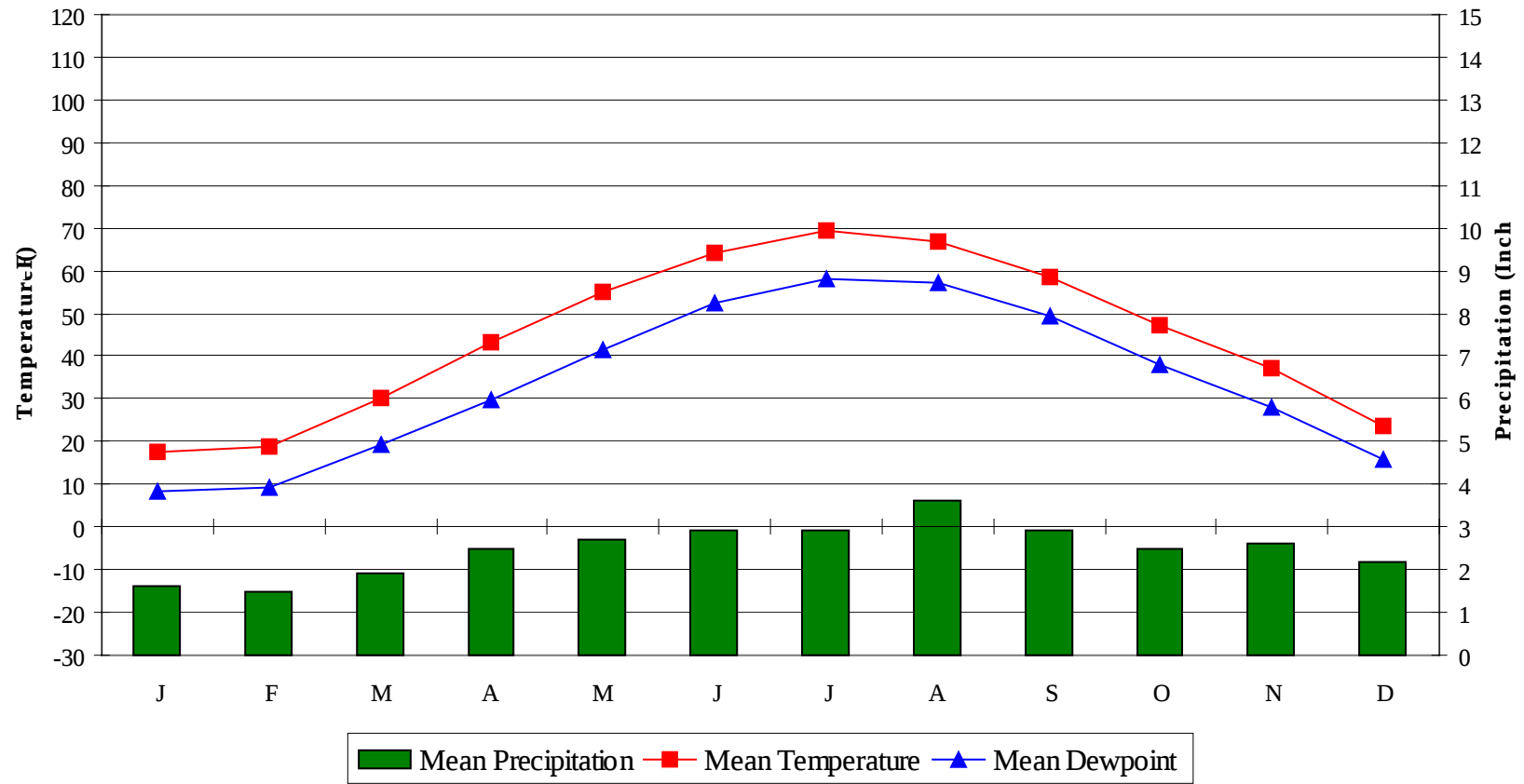
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

PLATTSBURGH AFB

NY

WMO No. 726225

Average Annual Climate

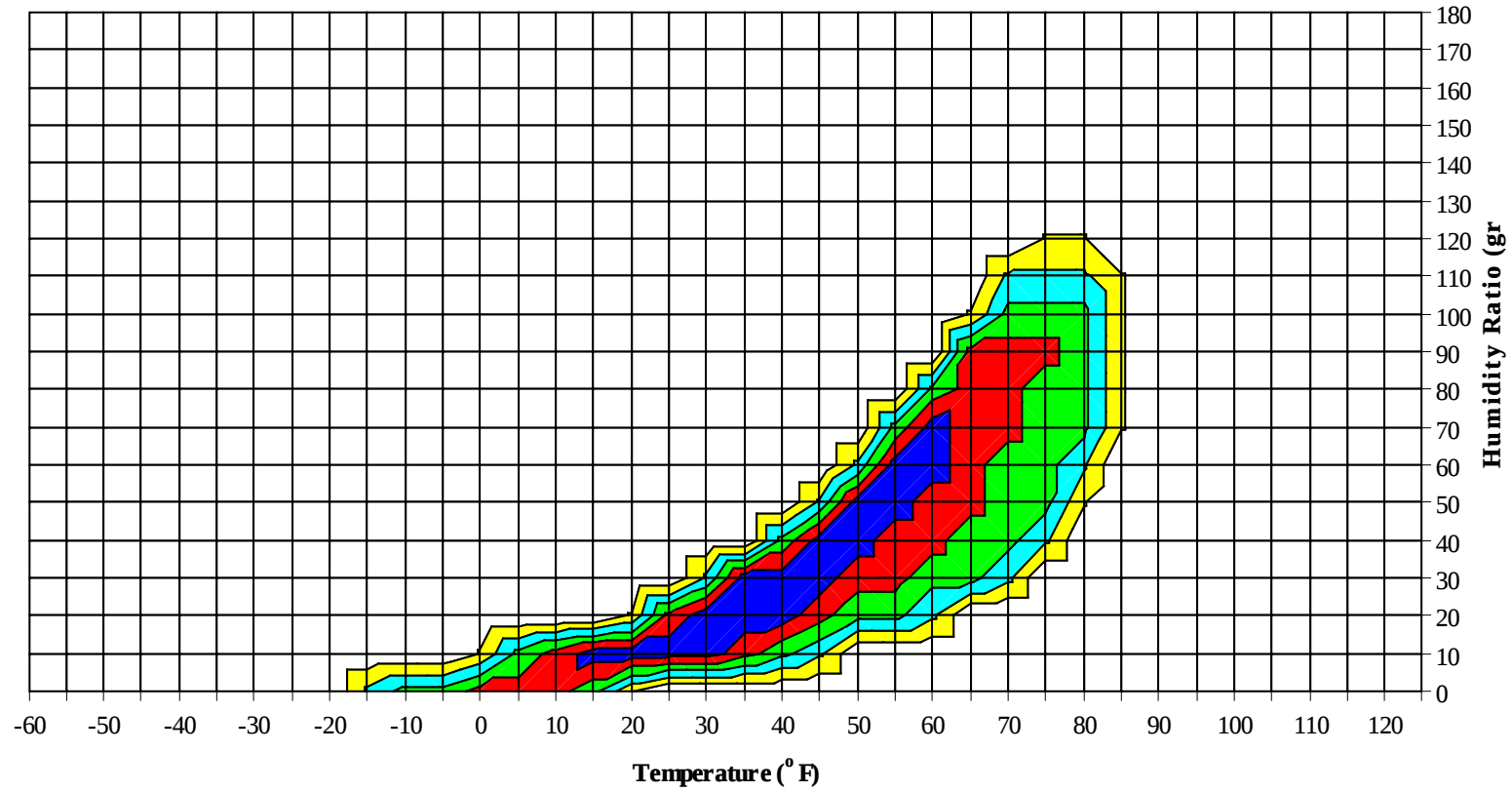


PLATTSBURGH AFB

NY

WMO No. 726225

Long Term Psychrometric Summary

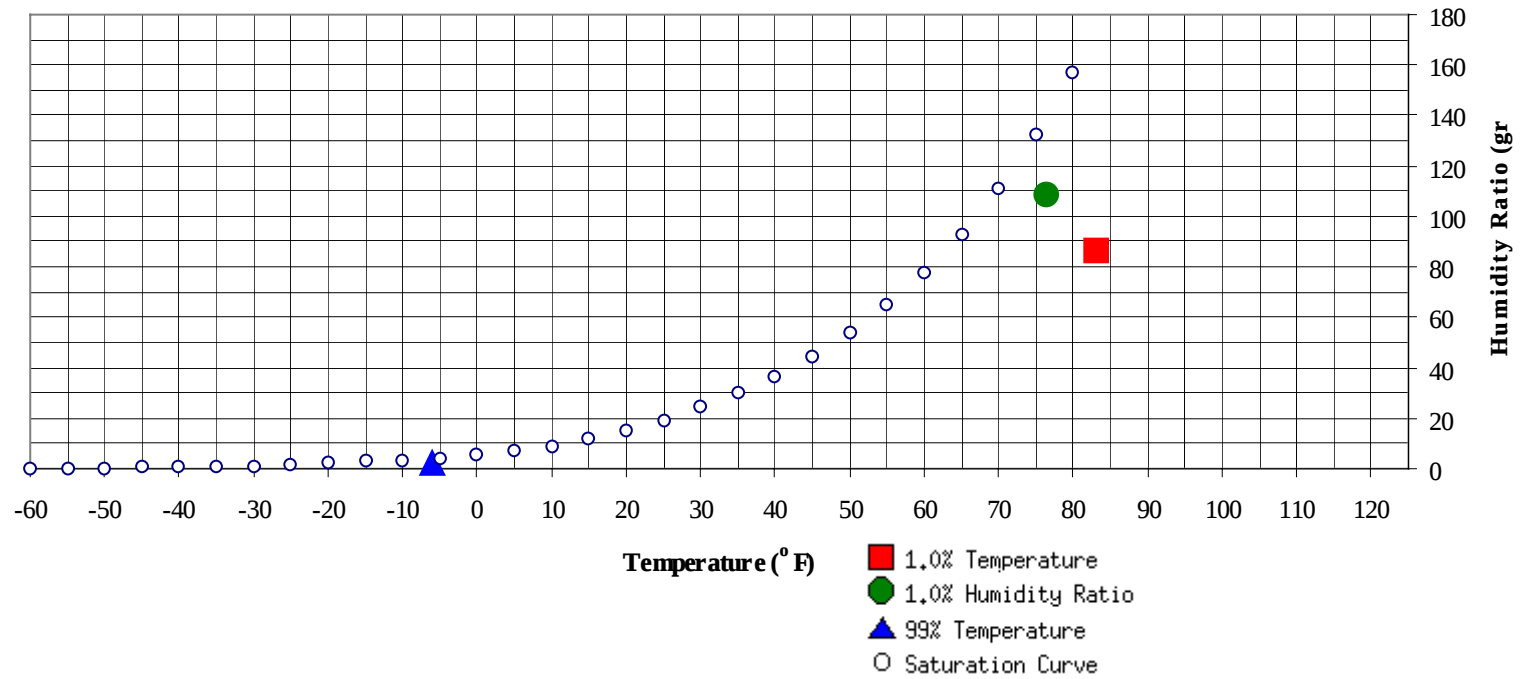


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

PLATTSBURGH AFB

NY

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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	-6	2.5	-1.1		108.5	76.5	71.3	69.1	35.3

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	83	86.8	69.3	33.5

PLATTSBURGH AFB NY

WMO No. 726225

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

Period of Record = 1966 to 1995

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		
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79												0		0	58.0
70 / 74												0	0	0	56.8
65 / 69												1	0	1	55.7
60 / 64		0	0	0	56.7							0	2	1	52.4
55 / 59	1	0	0	1	53.1		1	0	1	49.6		1	4	2	48.5
50 / 54	0	0	0	1	47.4	0	1	1	2	47.5	3	10	6	19	44.8
45 / 49	1	3	2	7	42.1	2	3	2	7	41.8	5	20	13	38	40.9
40 / 44	6	9	5	20	37.6	5	10	8	23	37.5	15	36	27	77	37.0
35 / 39	16	25	22	62	33.3	14	22	19	56	33.4	35	50	45	130	33.1
30 / 34	25	29	28	82	29.4	21	30	26	76	29.0	49	44	51	144	28.9
25 / 29	27	31	31	89	24.3	21	33	30	84	24.1	40	34	39	113	23.9
20 / 24	25	32	30	87	19.6	24	33	30	88	19.5	32	23	26	82	19.5
15 / 19	26	32	26	85	15.0	30	30	30	90	14.8	24	14	17	55	14.8
10 / 14	30	31	30	90	10.4	29	25	27	81	10.2	16	8	11	35	10.4
5 / 9	24	22	27	73	5.6	24	17	21	62	5.6	12	4	5	21	6.0
0 / 4	24	17	20	61	1.0	18	12	14	44	0.9	7	1	2	10	1.1
-5 / -1	15	8	11	34	-3.2	12	5	8	24	-3.3	4	0	1	5	-2.8
-10 / -6	13	5	9	27	-7.5	12	2	5	20	-7.6	2	0	0	2	-7.3
-15 / -11	8	2	5	15	-12.3	7	1	2	9	-12.1	1	0		1	-11.5
-20 / -16	5	1	2	8	-16.7	3	0	1	3	-16.5					
-25 / -21	2	0	1	3	-21.5	1		0	1	-21.4					
-30 / -26	1	0	0	1	-26.6	0			0	-26.5					
-35 / -31	0			0	-30.9										

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.

PLATTSBURGH AFB NY

WMO No. 726225

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**Period of Record = 1966 to 1995**

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		
100 / 104												0		0	77.5
95 / 99												0		0	72.6
90 / 94		0		0	65.5		0	0	0	67.7		2	0	2	72.1
85 / 89		0	0	0	63.0		2	1	2	66.0		6	3	8	70.4
80 / 84		1	0	1	61.0	0	5	3	7	64.6	0	17	8	25	67.5
75 / 79		2	1	3	59.3	0	10	6	16	62.4	3	37	20	59	64.9
70 / 74	0	4	2	7	57.8	2	25	13	40	59.1	12	56	35	103	62.4
65 / 69	0	9	5	14	54.6	6	37	24	66	56.3	34	58	50	142	60.0
60 / 64	2	15	9	26	51.1	19	48	35	102	53.7	59	42	54	155	56.9
55 / 59	8	25	19	52	47.7	37	50	45	132	50.5	61	20	41	121	53.1
50 / 54	13	36	26	75	44.3	55	45	51	151	46.9	40	5	19	65	48.6
45 / 49	29	49	40	119	41.1	57	22	40	119	42.8	21	1	7	28	44.3
40 / 44	47	50	50	147	37.3	39	6	20	65	38.5	8	0	1	9	40.1
35 / 39	54	31	45	131	33.1	23	1	7	31	34.2	2			2	36.1
30 / 34	47	16	28	91	28.8	9	0	2	11	29.7					
25 / 29	26	4	10	40	24.5	1		0	1	25.8					
20 / 24	8	1	2	12	19.7										
15 / 19	3	0	0	3	15.0										
10 / 14	0	0	0	1	10.9										
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															

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PLATTSBURGH AFB NY

WMO No. 726225

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)**Period of Record = 1966 to 1995**

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		
100 / 104															
95 / 99		0		0	74.4		0		0	78.0					
90 / 94		3	1	4	73.6		2	0	2	74.6		0		0	71.0
85 / 89	0	12	5	17	71.5		7	2	9	72.0		2	0	2	70.2
80 / 84	2	43	18	64	69.1	0	28	8	36	70.0	0	5	2	7	70.0
75 / 79	8	73	40	122	66.7	5	60	27	93	67.7	1	16	6	22	66.9
70 / 74	34	67	61	162	64.5	23	73	52	147	64.8	6	35	17	59	64.0
65 / 69	72	38	60	170	61.8	58	51	65	174	61.9	19	53	34	107	60.5
60 / 64	66	10	40	117	58.0	67	24	50	141	58.0	32	56	45	133	56.5
55 / 59	41	2	16	59	53.8	51	6	29	85	53.7	46	44	48	138	52.7
50 / 54	18	1	4	23	49.4	29	1	11	40	49.3	52	23	43	118	48.3
45 / 49	6		0	6	45.2	12	0	2	14	45.0	42	6	28	77	44.4
40 / 44	0			0	41.4	2		0	3	41.2	25	1	11	37	39.9
35 / 39						0			0	36.0	12	0	3	16	35.3
30 / 34											3		0	3	31.2
25 / 29											0			0	25.9
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															

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PLATTSBURGH AFB NY

WMO No. 726225

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)**Period of Record = 1966 to 1995**

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		
100 / 104															
95 / 99															
90 / 94															
85 / 89		0		0	65.7										
80 / 84		0	0	0	65.7										
75 / 79	0	1	1	2	65.1										
70 / 74	0	5	2	7	62.7	0	0	0	1	60.4					
65 / 69	2	14	4	20	58.4	1	2	1	3	58.9					
60 / 64	7	30	16	54	55.4	2	5	4	11	55.6	0	0		1	50.9
55 / 59	22	46	31	98	51.6	4	12	7	23	51.0	1	1	0	2	49.7
50 / 54	30	50	41	122	47.1	12	21	16	49	47.1	1	3	2	6	47.0
45 / 49	45	51	48	144	42.8	23	35	24	81	42.6	4	8	5	17	42.1
40 / 44	45	35	45	125	38.4	33	46	41	119	37.9	10	18	11	39	37.8
35 / 39	42	13	33	88	34.1	46	49	44	138	33.5	28	35	32	95	33.7
30 / 34	33	2	19	54	29.8	46	39	47	132	29.1	35	40	44	118	29.4
25 / 29	18	0	7	25	25.5	35	21	33	89	24.6	35	41	38	113	24.6
20 / 24	4		1	5	21.2	21	8	14	43	20.0	33	34	30	97	19.9
15 / 19	0			0	16.7	12	2	7	21	15.7	27	24	27	78	15.3
10 / 14						6	1	2	9	11.1	27	20	20	67	10.7
5 / 9						1		0	2	7.4	19	13	19	52	6.0
0 / 4											12	7	11	30	1.2
-5 / -1											7	2	6	15	-3.0
-10 / -6											5	1	3	9	-7.3
-15 / -11											3	0	1	4	-12.2
-20 / -16											2	0	0	2	-16.9
-25 / -21											0		0	0	-21.0
-30 / -26															
-35 / -31															

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PLATTSBURGH AFB NY

WMO No. 726225

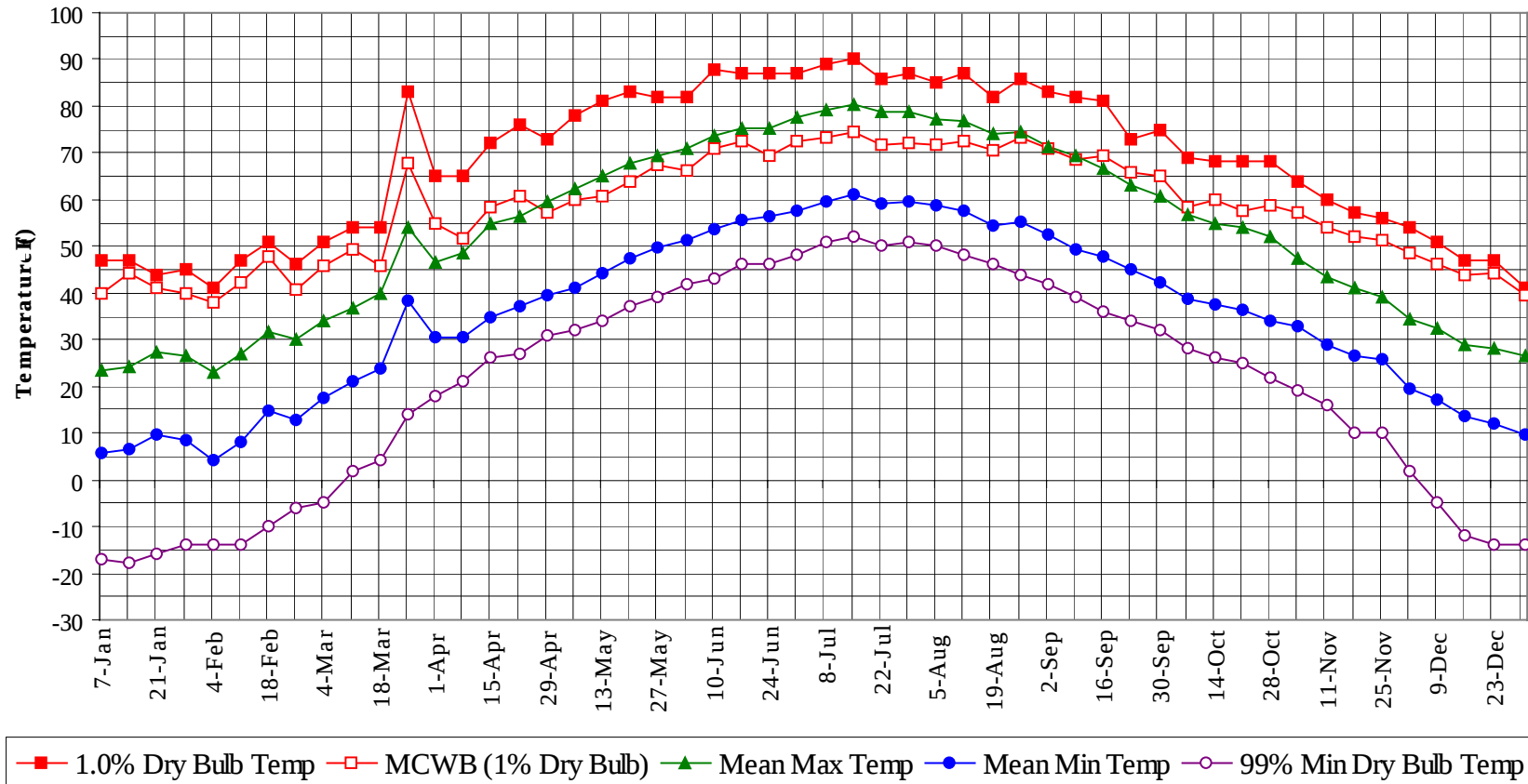
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1966 to 1995

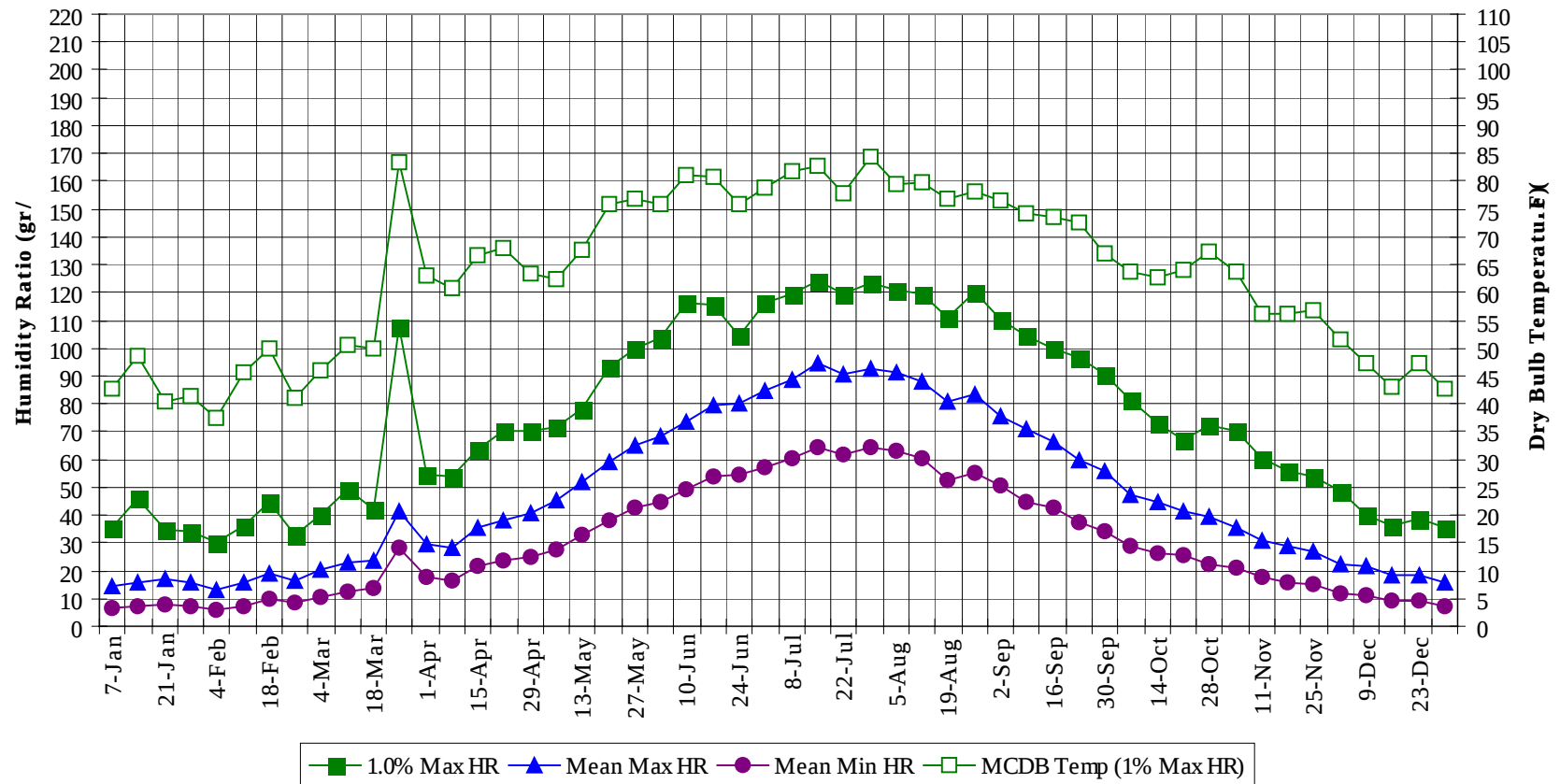
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104	0			0	77.5
95 / 99	1			1	74.1
90 / 94	8			2	73.0
85 / 89	0	30	10	40	70.9
80 / 84	2	99	39	140	68.8
75 / 79	18	199	99	316	66.4
70 / 74	78	265	182	524	63.6
65 / 69	191	262	243	696	60.5
60 / 64	254	231	255	740	56.4
55 / 59	270	208	238	716	51.9
50 / 54	253	195	220	667	47.2
45 / 49	245	198	210	653	42.6
40 / 44	234	210	219	662	37.9
35 / 39	272	225	250	748	33.5
30 / 34	266	201	244	712	29.2
25 / 29	203	165	188	556	24.4
20 / 24	148	133	135	416	19.7
15 / 19	122	104	108	334	15.0
10 / 14	108	85	92	284	10.4
5 / 9	81	56	73	211	5.8
0 / 4	62	37	48	147	1.0
-5 / -1	38	16	25	79	-3.2
-10 / -6	33	9	18	60	-7.5
-15 / -11	19	3	8	30	-12.2
-20 / -16	9	1	3	13	-16.7
-25 / -21	3	0	1	4	-21.5
-30 / -26	1	0	0	1	-26.6
-35 / -31	0			0	-30.9

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



PLATTSBURGH AFB**NY****WMO No. 726225****Long Term Dry Bulb Temperature and Humidity Summary**

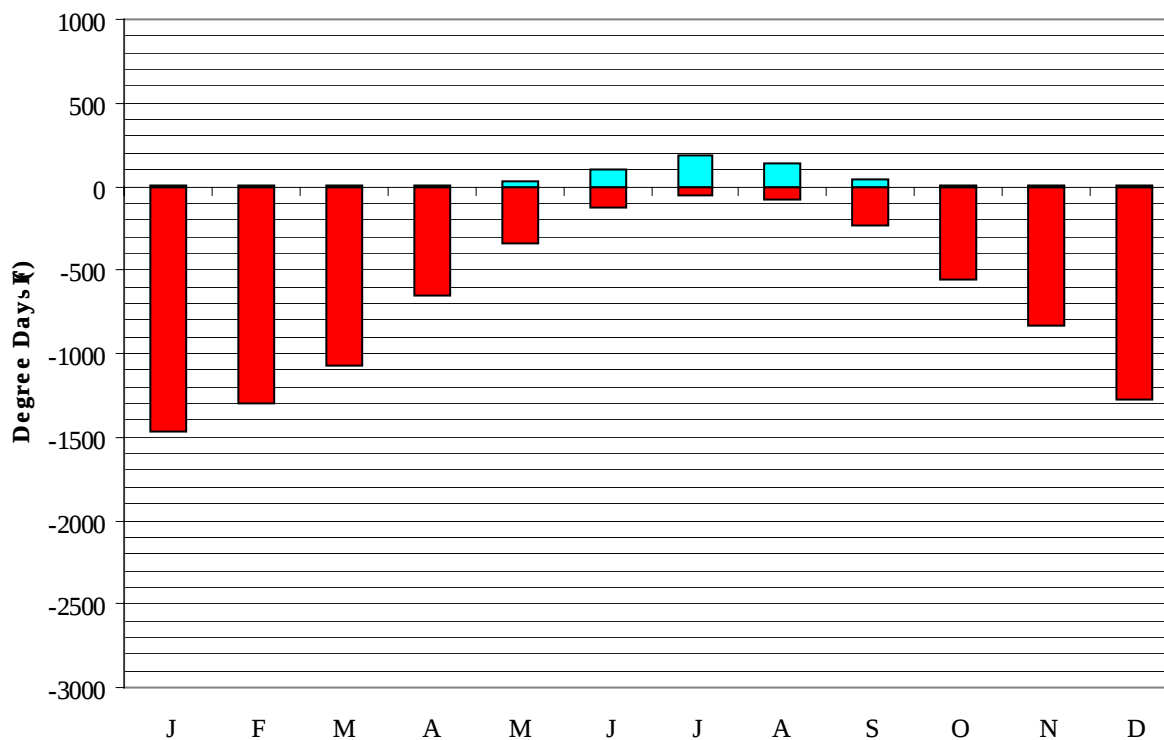
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	47.0	40.0	23.5	5.9	-17.0	35.7	42.8	14.4	6.3
14-Jan	47.0	44.1	24.4	6.5	-18.0	46.2	48.8	15.6	7.3
21-Jan	44.0	40.9	27.5	9.7	-16.0	35.0	40.2	17.0	7.9
28-Jan	45.0	39.9	26.4	8.6	-14.0	34.3	41.3	15.9	7.2
4-Feb	41.0	37.8	23.1	4.2	-14.0	30.1	37.6	12.8	5.6
11-Feb	47.0	42.4	26.8	8.1	-14.0	36.4	45.5	15.7	7.1
18-Feb	51.0	47.8	31.5	14.8	-10.0	44.8	50.0	19.2	10.1
25-Feb	46.0	40.9	30.0	12.9	-6.0	32.9	41.0	16.4	8.3
4-Mar	51.0	45.6	34.2	17.3	-5.0	39.9	45.9	20.6	10.8
11-Mar	54.0	49.3	36.8	21.2	2.0	49.0	50.7	23.2	12.5
18-Mar	54.0	45.7	39.9	23.9	4.0	42.0	49.9	23.6	13.7
25-Mar	83.0	67.8	54.2	38.4	14.0	107.8	83.5	41.1	28.4
1-Apr	65.0	54.9	46.5	30.4	18.0	54.6	63.1	29.8	17.6
8-Apr	65.0	51.6	48.7	30.7	21.0	53.9	60.8	28.1	16.7
15-Apr	72.0	58.5	55.0	35.0	26.0	63.7	66.8	35.7	21.4
22-Apr	76.0	60.6	56.3	37.3	27.0	70.0	67.9	38.4	23.8
29-Apr	73.0	57.2	59.6	39.5	31.0	70.0	63.3	41.0	25.1
6-May	78.0	60.1	62.3	41.2	32.0	71.4	62.5	45.5	27.7
13-May	81.0	60.9	65.0	44.1	34.0	78.4	67.7	51.8	32.7
20-May	83.0	64.0	67.8	47.3	37.0	93.1	76.0	59.4	38.1
27-May	82.0	67.3	69.5	49.8	39.0	100.1	76.8	64.8	42.6
3-Jun	82.0	66.3	71.1	51.2	42.0	103.6	75.9	68.2	44.5
10-Jun	88.0	71.1	73.6	53.5	43.0	116.2	81.2	73.7	49.3
17-Jun	87.0	72.6	75.3	55.5	46.0	115.5	80.8	79.7	53.8
24-Jun	87.0	69.3	75.2	56.2	46.0	104.3	75.8	80.3	54.5
1-Jul	87.0	72.5	77.8	57.5	48.0	116.2	78.9	84.8	57.1
8-Jul	89.0	73.3	79.2	59.7	51.0	119.7	81.9	88.8	60.4
15-Jul	90.0	74.4	80.5	61.0	52.0	123.9	82.7	94.5	64.5
22-Jul	86.0	71.7	79.0	59.3	50.0	119.7	77.7	90.6	61.7
29-Jul	87.0	71.9	78.6	59.4	51.0	123.2	84.4	92.8	64.5
5-Aug	85.0	71.5	77.1	58.9	50.0	121.1	79.6	91.0	62.9
12-Aug	87.0	72.4	76.9	57.7	48.0	119.7	79.7	88.1	60.2
19-Aug	82.0	70.7	74.0	54.3	46.0	111.3	76.9	80.5	52.8
26-Aug	86.0	73.1	74.5	55.3	44.0	120.4	78.2	83.7	55.2
2-Sep	83.0	71.1	71.5	52.5	42.0	110.6	76.6	75.3	50.4
9-Sep	82.0	68.7	69.2	49.5	39.0	104.3	74.1	70.6	44.8
16-Sep	81.0	69.2	66.4	47.6	36.0	100.1	73.4	66.6	42.7
23-Sep	73.0	66.0	63.0	44.9	34.0	96.6	72.7	59.7	37.6
30-Sep	75.0	64.9	60.7	42.4	32.0	90.3	66.9	55.5	33.9
7-Oct	69.0	58.3	56.7	38.6	28.0	81.2	63.7	47.1	28.7
14-Oct	68.0	60.0	55.0	37.4	26.0	72.8	62.7	44.5	26.3
21-Oct	68.0	57.7	54.0	36.3	25.0	67.2	64.2	41.6	25.3
28-Oct	68.0	58.7	52.1	34.0	22.0	72.1	67.4	39.1	22.4
4-Nov	64.0	57.2	47.4	33.0	19.0	70.0	63.8	35.6	21.3
11-Nov	60.0	54.0	43.3	28.9	16.0	60.2	56.1	30.7	17.5
18-Nov	57.0	51.9	41.1	26.7	10.0	56.0	56.2	28.7	16.0
25-Nov	56.0	51.3	39.1	25.6	10.0	53.9	56.9	27.0	15.3
2-Dec	54.0	48.7	34.6	19.7	2.0	48.3	51.6	22.6	12.1
9-Dec	51.0	46.3	32.4	17.2	-5.0	39.9	47.2	21.6	11.2
16-Dec	47.0	43.9	29.0	13.8	-12.0	36.4	43.0	18.4	9.3
23-Dec	47.0	44.2	28.3	11.9	-14.0	38.5	47.3	18.4	9.1
31-Dec	41.0	39.3	26.6	9.6	-14.0	35.7	42.6	16.1	7.5

PLATTSBURGH AFB

NY

WMO No. 726225

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



Mean Cooling Degree Days Mean Heating Degree Days

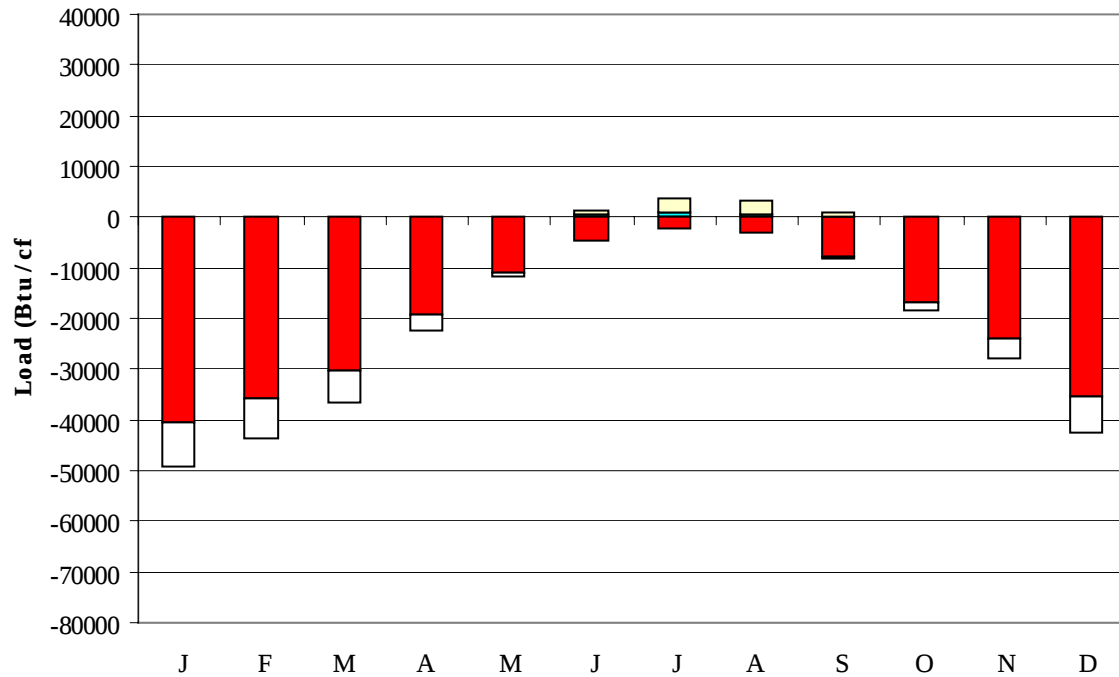
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1470
FEB	0	1299
MAR	0	1075
APR	5	653
MAY	31	337
JUN	98	121
JUL	185	48
AUG	137	76
SEP	41	236
OCT	4	559
NOV	0	835
DEC	0	1270
ANN	502	7979

PLATTSBURGH AFB

NY

WMO No. 726225

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 (Drying) Load	■ Average Latent Heating (Humidifying) Load

	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	-40510	0	-8874
FEB	0	-35857	0	-7901
MAR	0	-30269	0	-6211
APR	20	-19184	1	-3127
MAY	115	-10802	116	-759
JUN	447	-4528	892	-52
JUL	985	-2103	2686	-1
AUG	570	-3107	2594	-5
SEP	114	-7938	629	-149
OCT	6	-16830	31	-1543
NOV	0	-23977	0	-3816
DEC	0	-35318	0	-7187
ANN	2257	-230423	6949	-39625

Average Annual Solar Radiation – Nearest Available Site

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

City: BURLINGTON
 State: VT
 WBAN No: 14742
 Lat(N): 44.47
 Long(W): 73.15
 Elev(ft): 341

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.663
 Vert Gap: 0.331

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	510	810	1150	1450	1750	1910	1920	1650	1270	830	490	390	1180
	Std Dev	52	69	89	124	166	127	102	88	88	79	42	50	37
	Minimum	380	670	960	1090	1370	1630	1720	1410	990	620	390	270	1080
	Maximum	630	990	1360	1680	2070	2150	2120	1790	1390	1030	560	500	1250
	Diffuse	320	460	600	700	820	870	840	750	590	430	330	270	580
Clear Day	Global	740	1110	1630	2160	2540	2680	2580	2250	1750	1210	790	630	1670
NORTH	Global	180	260	350	430	550	620	590	480	360	260	180	150	370
	Diffuse	180	260	350	420	500	540	520	460	360	260	180	150	350
Clear Day	Global	150	220	300	400	580	700	630	460	320	230	160	130	360
EAST	Global	350	530	720	880	1010	1070	1090	980	770	530	310	260	710
	Diffuse	220	330	430	510	590	640	630	560	450	320	220	180	420
Clear Day	Global	630	870	1160	1400	1540	1580	1540	1420	1190	910	650	550	1120
SOUTH	Global	850	1060	1100	980	910	860	920	1000	1070	980	670	630	920
	Diffuse	350	450	510	540	580	600	600	570	510	400	310	290	480
Clear Day	Global	1890	2030	1940	1560	1230	1080	1120	1390	1730	1920	1860	1790	1620
WEST	Global	360	540	730	860	990	1080	1090	970	790	550	330	270	710
	Diffuse	230	330	430	510	600	640	630	570	450	320	220	190	430
Clear Day	Global	630	870	1160	1400	1540	1580	1540	1420	1190	910	650	550	1120

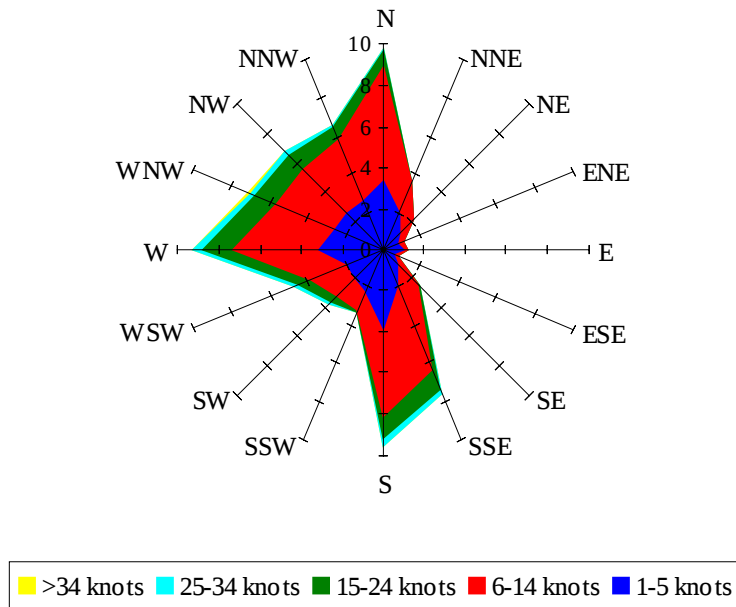
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	330	540	800	1030	1260	1380	1390	1180	890	560	320	250	830
NORTH	Unshaded	120	180	240	290	360	410	390	320	250	180	130	100	250
	Shaded	100	150	200	250	310	350	330	280	210	150	100	83	210
EAST	Unshaded	240	370	500	620	720	760	780	700	550	370	220	170	500
	Shaded	210	310	420	510	580	610	630	570	450	310	180	150	410
SOUTH	Unshaded	640	780	780	660	580	540	580	660	740	710	500	480	630
	Shaded	610	700	590	390	340	350	350	370	500	600	470	450	480
WEST	Unshaded	250	370	520	610	710	770	780	690	560	380	230	190	500
	Shaded	210	320	430	500	570	620	630	560	470	320	190	160	410

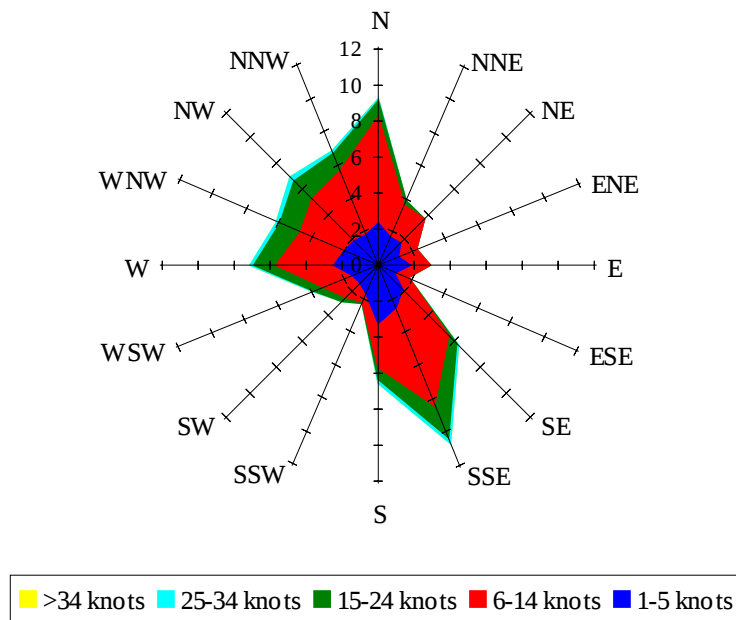
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	39	68	75	58	21	52	84	98	91	65
	M.Cloudy	25	44	48	37	13	33	55	69	63	44
NORTH	M.Clear	10	13	14	12	7	13	16	16	16	14
	M.Cloudy	10	16	17	14	6	13	18	19	19	15
EAST	M.Clear	73	52	14	12	7	81	68	26	16	14
	M.Cloudy	28	29	17	14	6	37	40	24	19	15
SOUTH	M.Clear	45	79	87	67	24	12	40	54	47	23
	M.Cloudy	20	38	43	31	10	12	28	39	34	18
WEST	M.Clear	10	13	27	69	61	12	16	16	54	80
	M.Cloudy	10	16	21	32	19	12	18	19	38	44
M.Clear	(% hrs)	26	25	26	27	28	30	32	26	26	26
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	30	63	78	71	41	10	33	37	19	0
	M.Cloudy	18	41	53	47	25	7	20	22	12	0
NORTH	M.Clear	8	13	15	14	10	4	9	9	6	0
	M.Cloudy	8	14	17	16	10	3	9	9	6	0
EAST	M.Clear	68	64	23	14	10	29	32	9	6	0
	M.Cloudy	23	34	20	16	10	9	14	9	6	0
SOUTH	M.Clear	25	62	79	70	37	29	74	82	49	0
	M.Cloudy	12	33	45	39	18	9	25	26	15	0
WEST	M.Clear	8	13	15	55	73	4	9	23	39	0
	M.Cloudy	8	14	17	33	30	3	9	12	13	0
M.Clear	(% hrs)	29	30	29	29	31	14	14	15	18	19

Wind Summary - December, January, and February **Labels of Percent Frequency on North Axis**



Percent Calm = 20.82

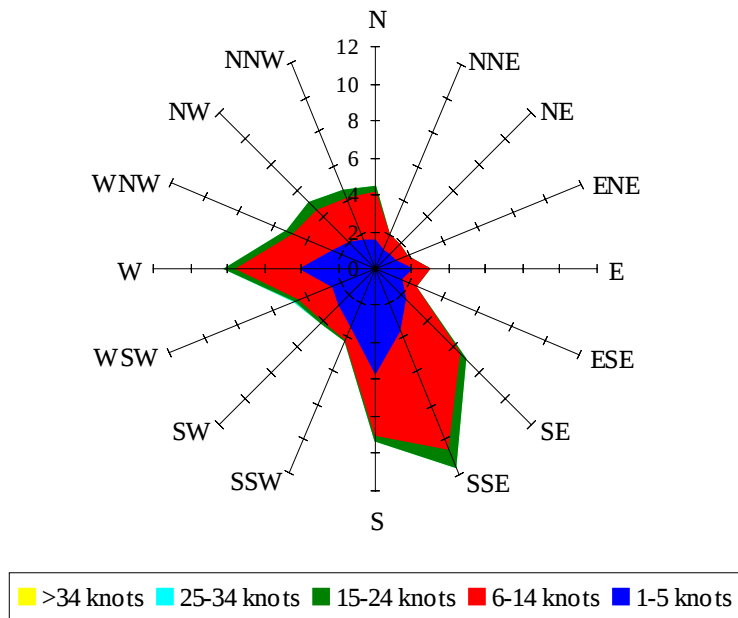
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 17.34

Wind Summary - June, July, and August

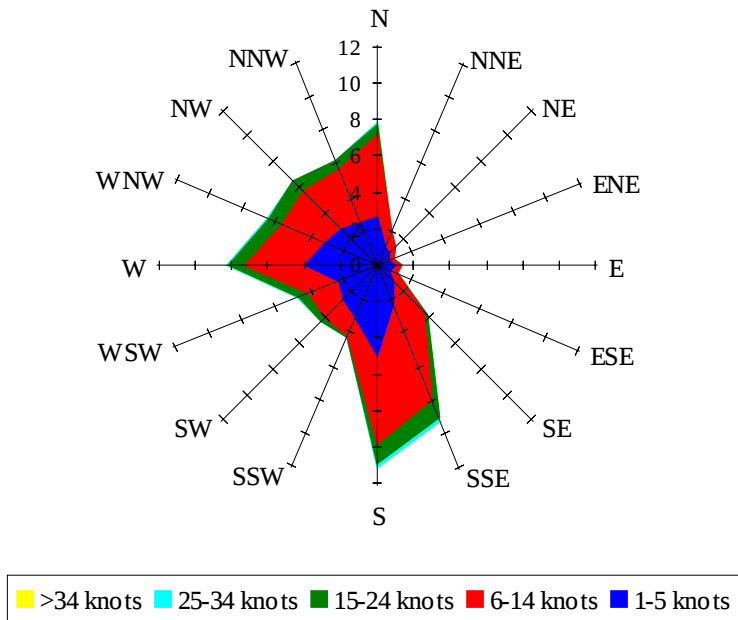
Labels of Percent Frequency on North Axis



Percent Calm = 20.68

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 20.35