

PATRICK AFB/COCOA BEACH FL

Latitude = 28.23 N

WMO No. 747950

Longitude = 80.60 W

Elevation = 10 feet

Period of Record = 1967 to 1996

Average Pressure = 30.01 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	79	126	8.7	WSW
0.4% Occurrence	90	78	127	8.8	WSW
1.0% Occurrence	89	79	130	8.3	E
2.0% Occurrence	88	78	131	8.4	E
Mean Daily Range	10	-	-	-	-
97.5% Occurrence	52	47	38	10.3	NNW
99.0% Occurrence	47	42	31	11.2	NW
99.6% Occurrence	43	37	24	12.7	NW
Median of Extreme Lows	34	28	15	13.5	NW
	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	82	88	154	7.9	E
0.4% Occurrence	81	87	149	8.2	E
1.0% Occurrence	80	86	144	7.7	E
2.0% Occurrence	80	86	144	7.7	E
	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	161	87	1.07	7.5	E
0.4% Occurrence	151	85	1.00	7.8	E
1.0% Occurrence	149	84	1.00	6.3	E
2.0% Occurrence	146	85	0.97	6.7	E
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		8	2824	3506	5660

Other Site Data

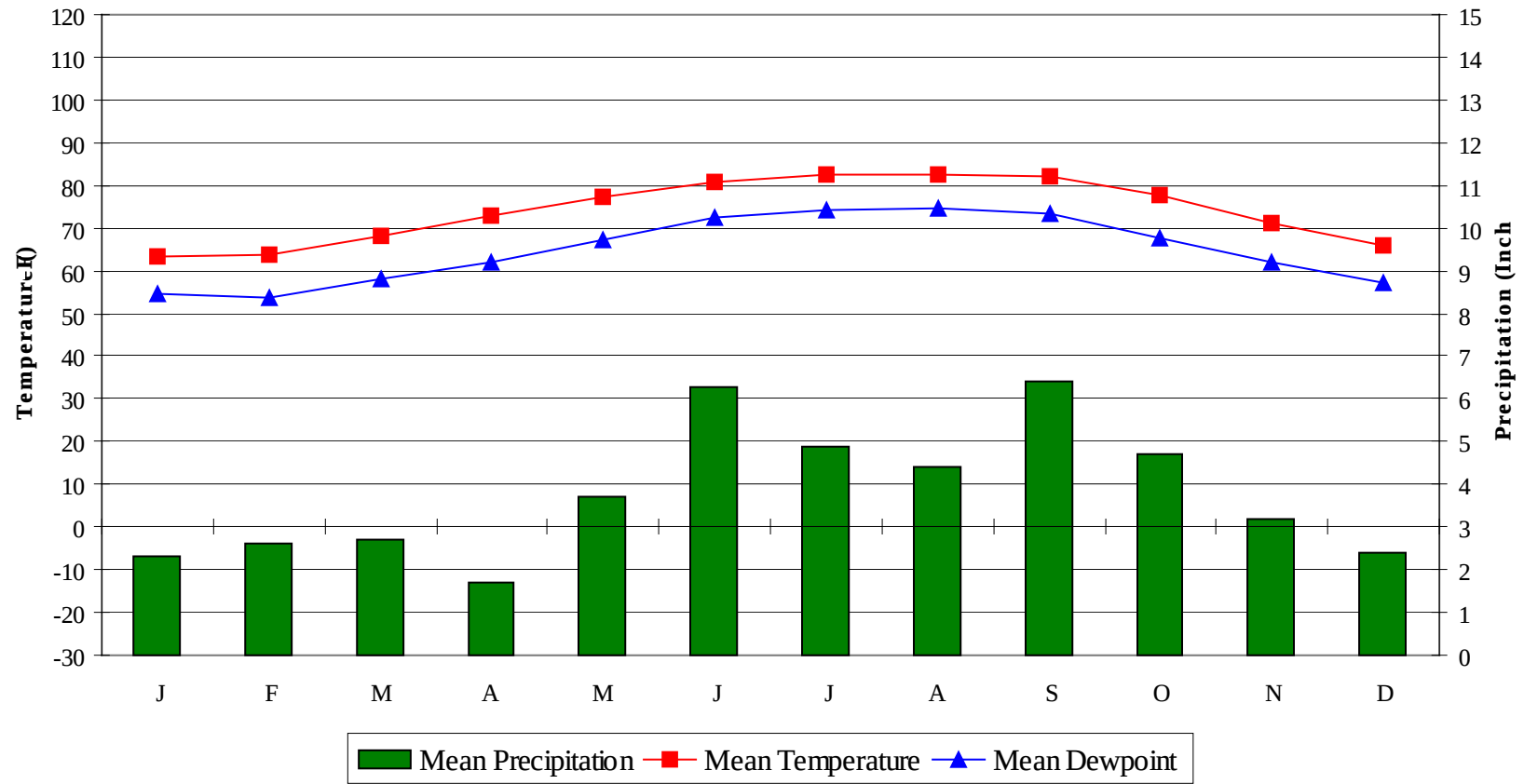
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
10	4.5	130	8.7 + 2.5
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
76.5	0	0	0

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

PATRICK AFB/COCOA BEACH FL

WMO No. 747950

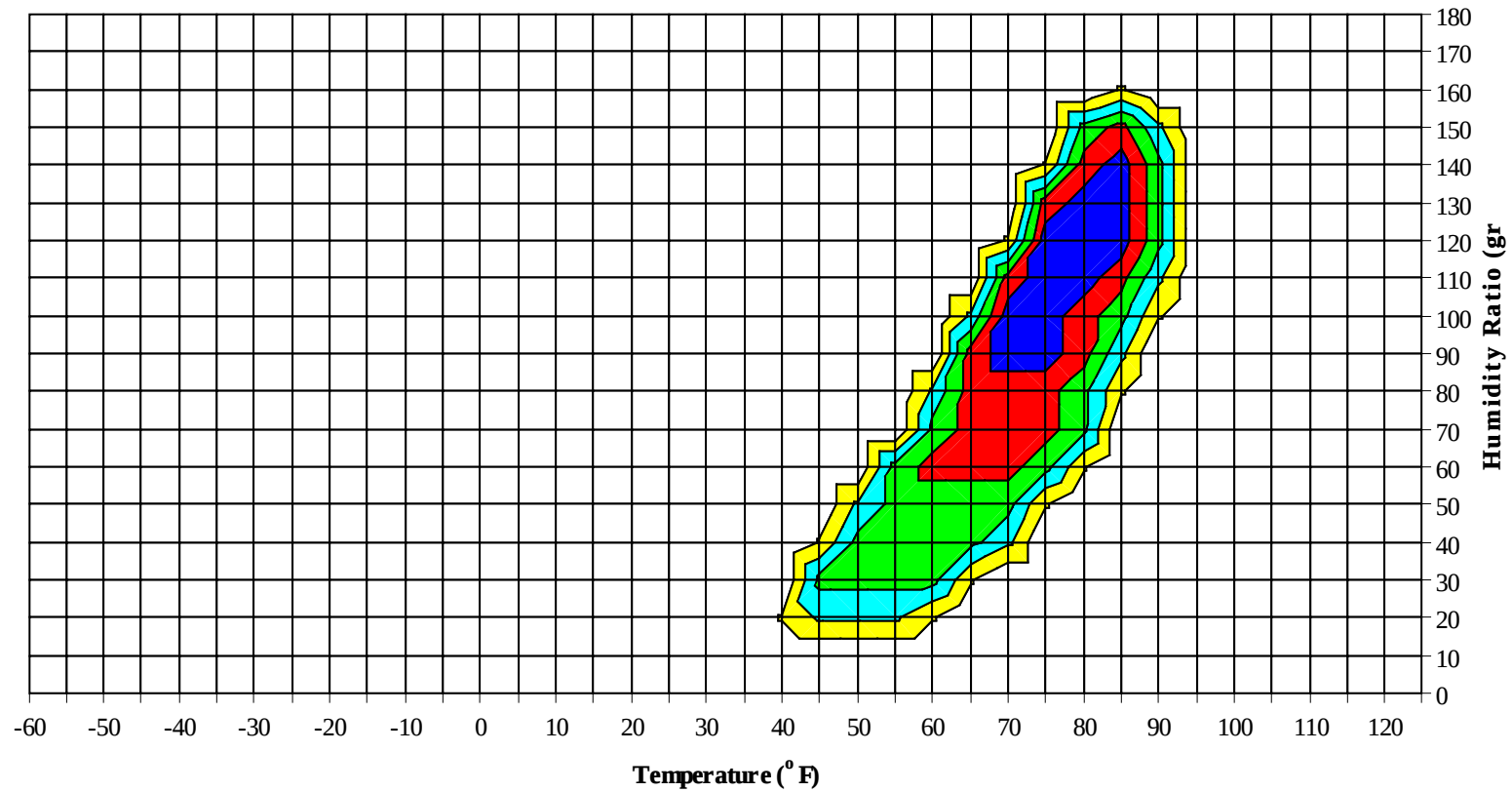
Average Annual Climate



PATRICK AFB/COCOA BEACH FL

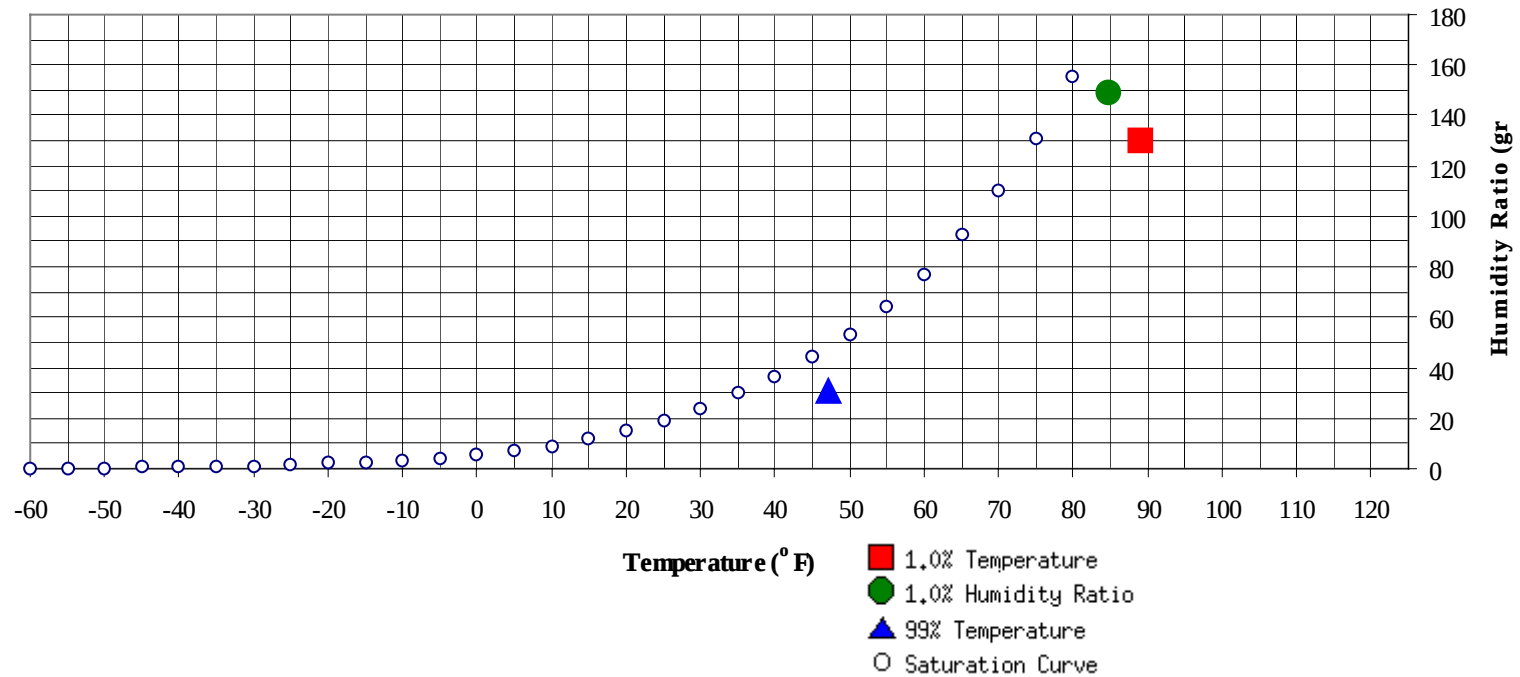
WMO No. 747950

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

Psychrometric Summary of Peak Design Values



99% Dry Bulb	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
	47	31	16.1		149.1	84.7	80.6	79	43.7

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	89	130.2	78.5	41.8

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

Period of Record = 1967 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		1		1	72.2		1	0	1	71.4		0		0	72.2
80 / 84		7	1	8	71.1		6	1	7	70.4		4	1	5	71.7
75 / 79	0	29	7	36	69.7	0	21	7	28	69.1	3	55	21	78	69.3
70 / 74	28	62	53	143	67.0	17	57	40	114	66.2	49	86	84	219	66.0
65 / 69	67	54	64	186	62.6	48	57	62	167	62.0	83	51	76	209	62.0
60 / 64	51	39	45	135	57.4	51	40	49	139	57.1	57	23	36	115	57.1
55 / 59	37	28	39	104	51.9	44	22	37	103	51.8	29	11	18	58	51.5
50 / 54	31	17	24	72	46.7	32	14	18	64	46.5	18	4	7	30	46.7
45 / 49	20	7	10	37	42.1	21	5	8	34	42.0	8	1	1	9	42.1
40 / 44	9	2	4	15	36.5	8	2	2	11	37.2	2	0	1	2	37.5
35 / 39	3	1	1	5	31.3	2	1	0	2	32.2	0	0	0	0	32.9
30 / 34	2	0	0	2	26.7	2			2	28.4	0	0	0	0	28.5
25 / 29	0	0		0	22.4						0			0	26.0
20 / 24															

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.

PATRICK AFB/COCOA BEACH FL WMO No. 747950

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

Period of Record = 1967 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	77.0
90 / 94		1	0	1	72.9		2	1	3	75.0		8	1	9	78.0
85 / 89		6	2	8	72.2		17	3	20	74.4	0	72	14	86	77.5
80 / 84	0	38	8	46	71.7	8	123	43	174	73.5	59	129	119	306	75.6
75 / 79	22	103	72	198	69.4	110	90	146	346	70.6	149	27	96	272	73.5
70 / 74	105	69	109	283	65.6	106	14	49	170	67.5	31	3	11	45	70.9
65 / 69	72	17	39	127	61.3	22	2	4	27	63.6	1	0	0	1	65.7
60 / 64	27	5	9	40	56.2	3	0	1	4	58.7					
55 / 59	10	1	2	13	51.5	0			0	55.0					
50 / 54	3	0	0	3	47.0	0			0	51.0					
45 / 49	1			1	41.6										
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															

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

Period of Record = 1967 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		2	0	2	80.1		0		0	78.3					
90 / 94		13	1	14	79.0		8	0	8	79.4		6	0	6	78.5
85 / 89	4	134	41	179	78.4	5	141	39	185	78.6	4	120	27	151	77.8
80 / 84	105	87	136	328	76.5	111	87	147	345	76.9	122	97	157	375	75.8
75 / 79	134	12	65	211	74.2	123	11	57	192	74.6	105	16	52	172	73.7
70 / 74	5	1	5	11	71.5	8	1	5	14	71.8	9	2	5	16	70.4
65 / 69	0			0	68.0			0	0	67.5	0			0	65.5
60 / 64															
55 / 59															
50 / 54															
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															

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

Period of Record = 1967 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		1		1	78.0		0		0	76.5					
85 / 89	0	27	3	30	76.2		2	0	2	74.5		1		1	73.4
80 / 84	38	124	69	231	74.0	3	43	10	56	73.6		10	1	11	72.4
75 / 79	116	73	124	313	71.0	38	86	67	191	70.8	8	52	21	81	70.1
70 / 74	65	17	42	124	67.1	75	60	81	216	66.6	48	69	74	191	66.8
65 / 69	20	4	7	31	61.9	49	26	40	115	61.8	60	48	57	166	62.6
60 / 64	5	1	2	8	55.7	33	13	25	71	56.8	45	30	41	116	57.4
55 / 59	3	1	1	4	51.7	25	6	12	44	52.1	35	20	29	84	51.8
50 / 54	1	0	0	1	47.3	11	2	4	17	47.3	27	10	18	55	47.4
45 / 49						5	1	1	6	43.3	16	4	5	25	42.4
40 / 44						2	0	0	2	37.7	6	2	2	10	37.6
35 / 39						0	0	0	0	34.3	2	1	0	2	33.0
30 / 34											2	0	0	2	29.1
25 / 29											0	0	0	0	25.3
20 / 24											0			0	22.0

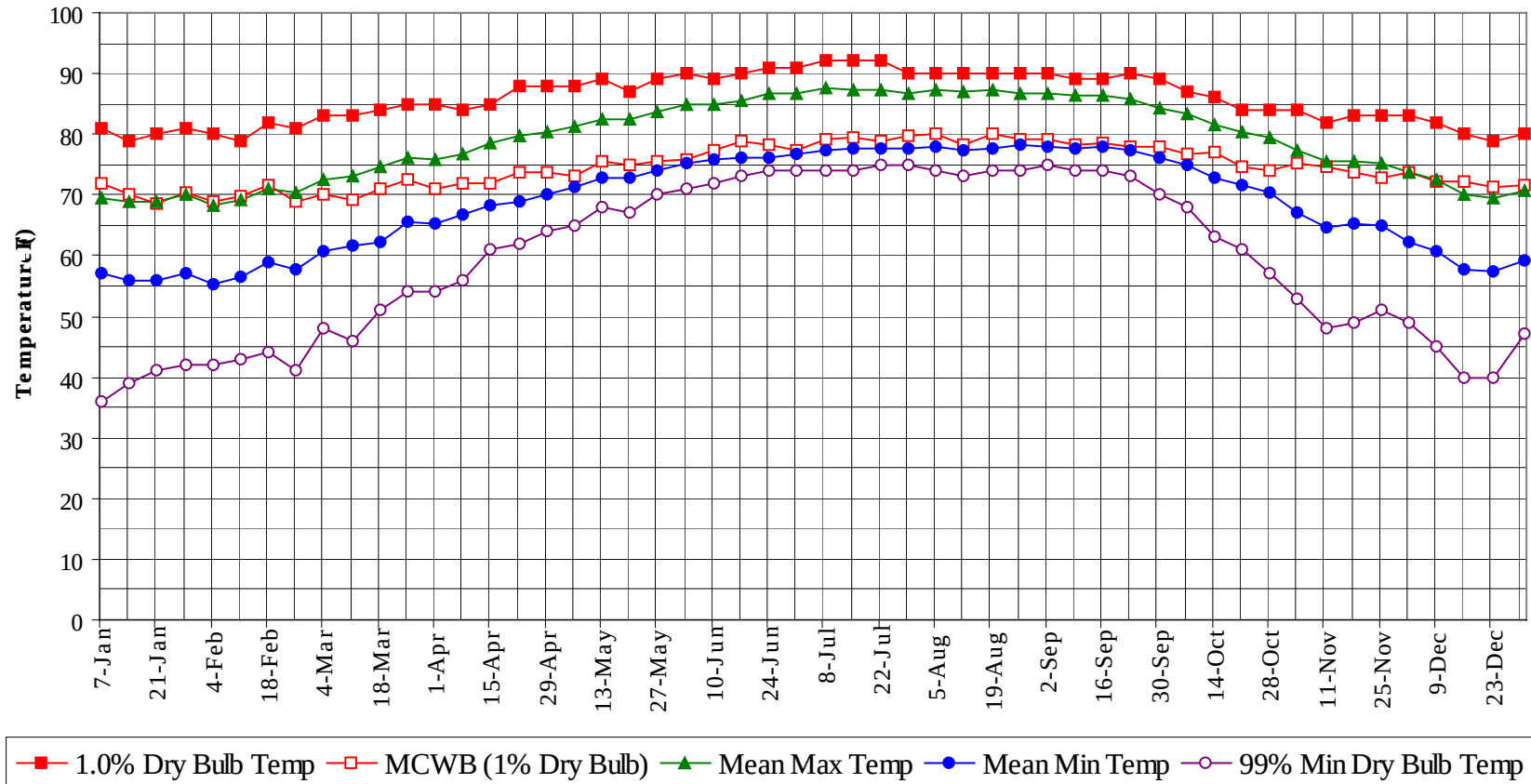
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PATRICK AFB/COCOA BEACH FL WMO No. 747950
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1967 to 1996

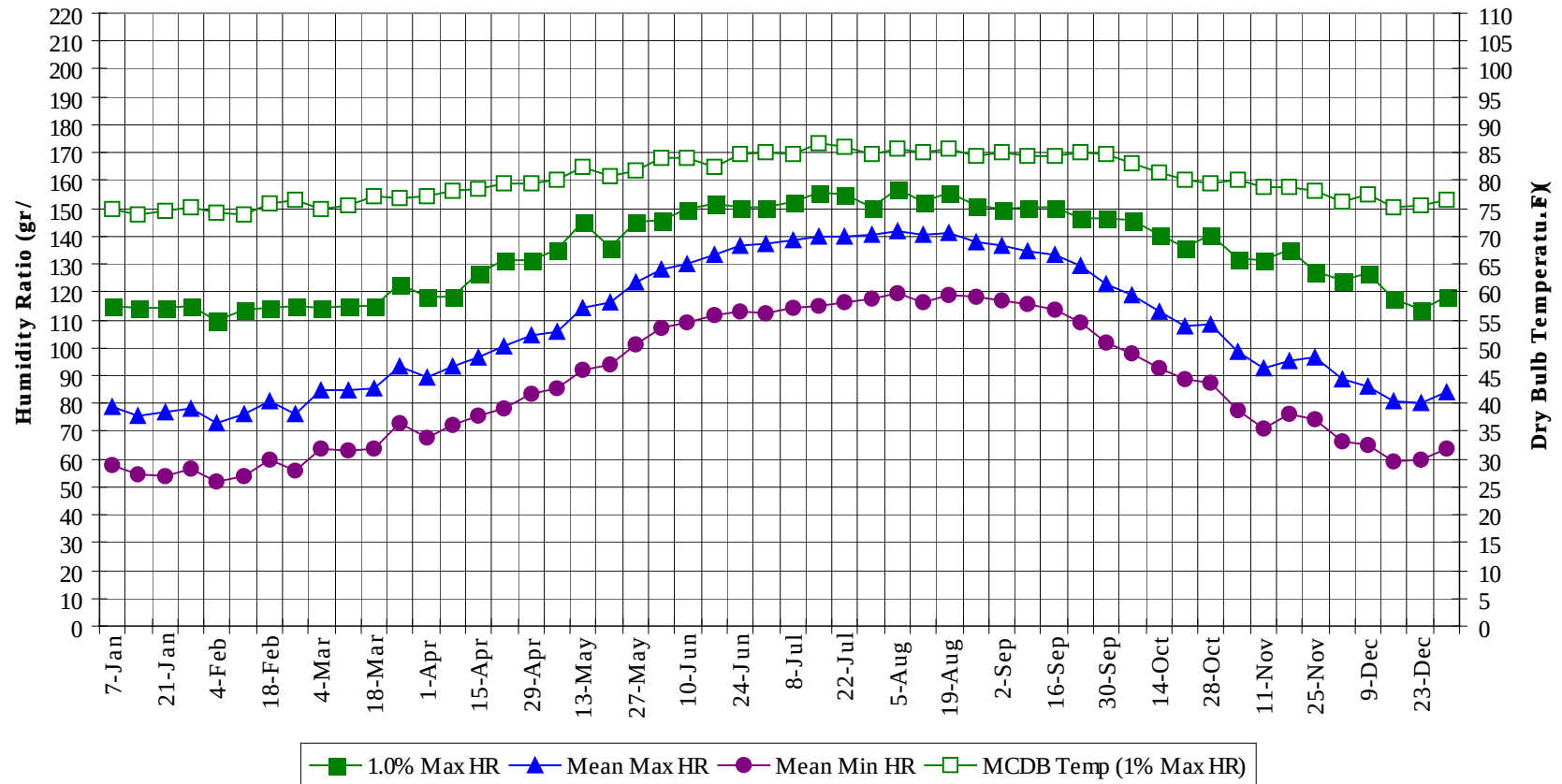
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99		2	0	2	79.8
90 / 94		40	3	42	78.3
85 / 89	16	529	122	666	77.8
80 / 84	474	763	666	1902	75.3
75 / 79	846	575	718	2138	71.6
70 / 74	544	441	570	1555	66.7
65 / 69	401	258	368	1026	62.1
60 / 64	255	151	218	623	57.1
55 / 59	170	88	145	403	51.8
50 / 54	114	47	75	237	46.9
45 / 49	67	19	25	111	42.2
40 / 44	24	6	8	38	37.1
35 / 39	7	2	2	11	32.1
30 / 34	3	1	1	5	27.6
25 / 29	0	0	0	0	23.9
20 / 24	0			0	22.0

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.

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



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WMO No. 747950

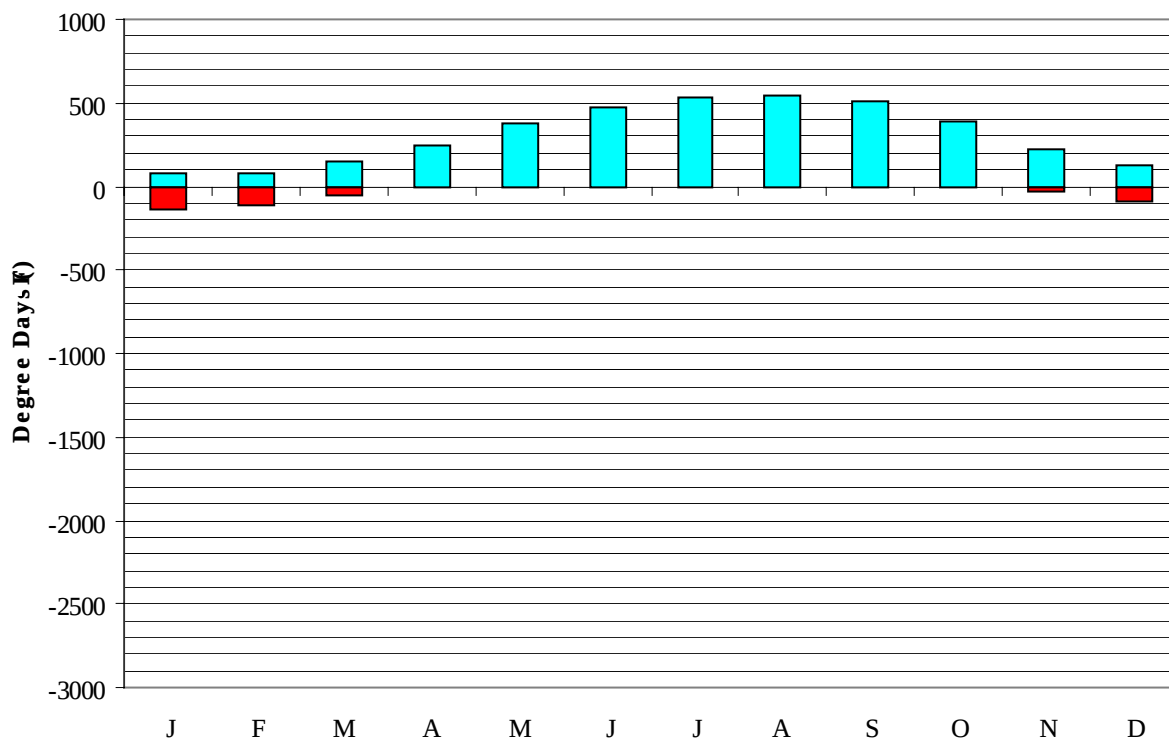
Long Term Dry Bulb Temperature and Humidity Summary

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	81.0	71.8	69.4	57.0	36.0	114.8	74.8	79.0	58.1
14-Jan	79.0	70.2	68.9	56.0	39.0	114.1	73.9	75.7	54.3
21-Jan	80.0	68.5	69.0	55.8	41.0	114.1	74.5	76.7	53.6
28-Jan	81.0	70.4	70.2	57.2	42.0	114.8	75.1	77.9	56.4
4-Feb	80.0	69.0	68.4	55.4	42.0	109.9	74.1	73.0	51.8
11-Feb	79.0	69.8	69.1	56.5	43.0	113.4	73.9	75.9	53.9
18-Feb	82.0	71.7	71.0	59.0	44.0	114.1	75.8	80.9	59.7
25-Feb	81.0	68.8	70.4	57.6	41.0	114.8	76.7	76.2	55.6
4-Mar	83.0	70.0	72.7	60.7	48.0	114.1	74.8	84.8	63.4
11-Mar	83.0	69.2	73.0	61.5	46.0	114.8	75.7	84.4	62.8
18-Mar	84.0	71.1	74.5	62.2	51.0	114.8	77.3	85.2	63.5
25-Mar	85.0	72.6	76.1	65.6	54.0	122.5	76.9	93.1	72.8
1-Apr	85.0	70.9	75.9	65.1	54.0	118.3	77.2	89.3	67.9
8-Apr	84.0	72.0	76.9	66.7	56.0	118.3	78.3	93.3	72.2
15-Apr	85.0	71.8	78.6	68.4	61.0	126.7	78.4	96.9	75.5
22-Apr	88.0	73.6	79.9	69.0	62.0	131.6	79.6	100.2	78.1
29-Apr	88.0	73.6	80.2	70.1	64.0	131.6	79.6	104.1	83.4
6-May	88.0	73.0	81.1	71.3	65.0	135.1	80.2	105.9	85.6
13-May	89.0	75.4	82.5	72.8	68.0	144.9	82.3	114.3	92.3
20-May	87.0	74.9	82.5	72.8	67.0	135.8	80.8	116.0	94.0
27-May	89.0	75.5	83.5	74.0	70.0	144.9	81.9	123.2	101.4
3-Jun	90.0	75.8	85.0	75.1	71.0	145.6	83.9	128.0	106.8
10-Jun	89.0	77.4	85.0	75.8	72.0	149.8	84.1	129.9	109.2
17-Jun	90.0	78.8	85.6	76.1	73.0	151.9	82.6	133.6	111.9
24-Jun	91.0	78.2	86.6	76.1	74.0	150.5	84.8	136.8	112.7
1-Jul	91.0	77.2	86.6	76.8	74.0	150.5	85.1	137.0	112.5
8-Jul	92.0	79.3	87.6	77.4	74.0	152.6	84.7	138.5	114.2
15-Jul	92.0	79.3	87.3	77.6	74.0	155.4	86.7	139.7	115.1
22-Jul	92.0	78.8	87.2	77.5	75.0	154.7	85.9	139.7	116.0
29-Jul	90.0	79.8	86.8	77.5	75.0	150.5	84.6	140.8	117.3
5-Aug	90.0	80.1	87.2	78.0	74.0	156.8	85.7	142.1	119.2
12-Aug	90.0	78.2	86.9	77.3	73.0	152.6	85.0	140.6	116.5
19-Aug	90.0	80.1	87.2	77.7	74.0	155.4	85.8	141.2	118.7
26-Aug	90.0	79.2	86.8	78.2	74.0	151.2	84.5	137.9	118.0
2-Sep	90.0	79.2	86.7	78.0	75.0	149.8	85.1	136.9	116.7
9-Sep	89.0	78.2	86.5	77.5	74.0	150.5	84.3	134.7	115.6
16-Sep	89.0	78.6	86.3	78.1	74.0	150.5	84.5	133.6	113.5
23-Sep	90.0	77.9	85.7	77.3	73.0	146.3	84.9	129.2	109.2
30-Sep	89.0	78.1	84.4	76.1	70.0	146.3	84.6	122.7	101.6
7-Oct	87.0	76.8	83.3	74.8	68.0	145.6	83.2	118.7	98.1
14-Oct	86.0	77.0	81.4	72.8	63.0	140.7	81.5	112.7	92.7
21-Oct	84.0	74.7	80.4	71.5	61.0	135.8	80.1	107.5	88.5
28-Oct	84.0	74.0	79.5	70.5	57.0	140.7	79.3	108.4	87.5
4-Nov	84.0	75.3	77.4	66.9	53.0	132.3	80.1	98.5	77.2
11-Nov	82.0	74.6	75.6	64.8	48.0	131.6	78.9	92.5	71.1
18-Nov	83.0	73.8	75.5	65.2	49.0	135.1	78.9	95.5	75.9
25-Nov	83.0	73.0	75.3	64.9	51.0	127.4	78.2	96.6	74.5
2-Dec	83.0	73.9	73.6	62.1	49.0	123.9	76.1	88.6	66.2
9-Dec	82.0	72.2	72.4	60.6	45.0	126.7	77.4	85.9	64.9
16-Dec	80.0	72.1	70.2	57.8	40.0	117.6	75.1	80.6	59.3
23-Dec	79.0	71.4	69.6	57.5	40.0	113.4	75.7	80.0	59.9
31-Dec	80.0	71.6	70.6	59.2	47.0	118.3	76.4	84.0	63.7

PATRICK AFB/COCOA BEACH FL

WMO No. 747950

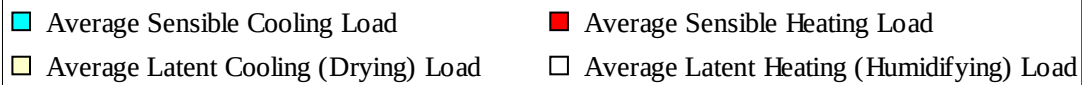
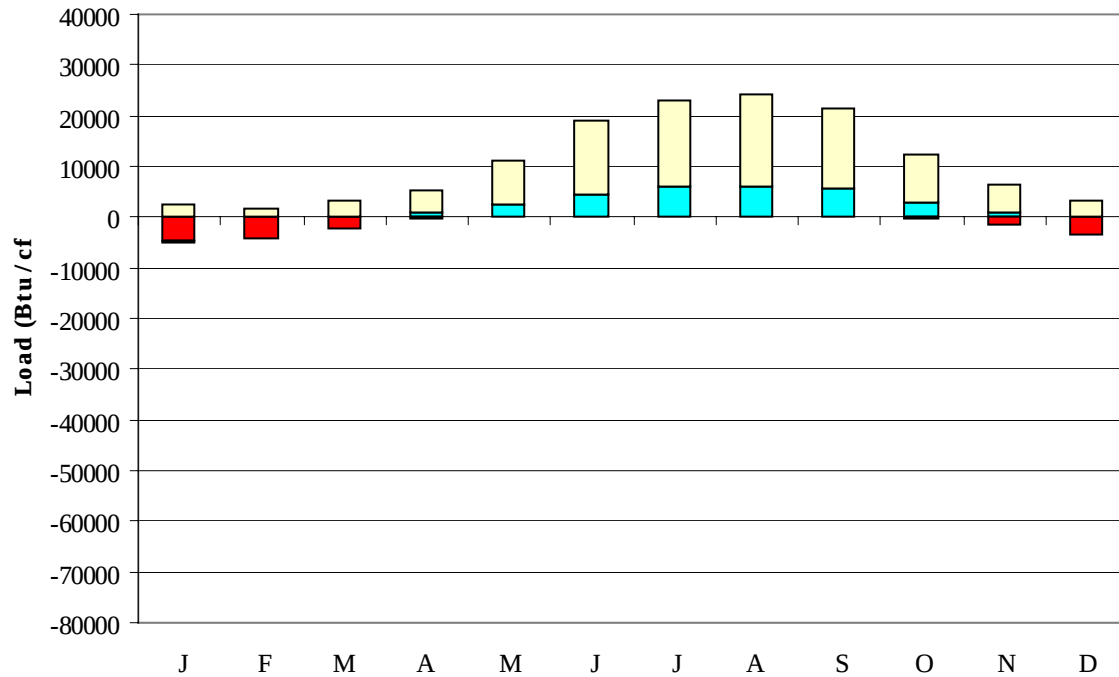
Degree Days, Heating and Cooling **(Base 65°F)**



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	81	132
FEB	72	110
MAR	147	48
APR	245	8
MAY	381	0
JUN	469	0
JUL	534	0
AUG	539	0
SEP	511	0
OCT	386	2
NOV	219	29
DEC	120	91
ANN	3704	420

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	118	-4801	2293	-242
FEB	106	-4152	1718	-196
MAR	328	-2076	2882	-68
APR	822	-452	4298	-8
MAY	2408	-29	8853	0
JUN	4437	0	14551	0
JUL	5879	0	17215	0
AUG	5961	0	18316	0
SEP	5507	0	15856	0
OCT	2822	-107	9588	-1
NOV	823	-1271	5670	-15
DEC	216	-3417	3027	-117
ANN	29427	-16305	104267	-647

Average Annual Solar Radiation – Nearest Available Site

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

City: DAYTONA BEACH
 State: FL
 WBAN No: 12834
 Lat(N): 29.18
 Long(W): 81.05
 Elev(ft): 39

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.844
 Vert Gap: 0.643

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	990	1220	1580	1950	2040	1940	1910	1800	1560	1320	1070	910	1530
	Std Dev	82	80	104	94	124	121	107	122	96	78	68	69	44
	Minimum	860	1010	1320	1770	1690	1720	1750	1510	1350	1120	930	750	1440
	Maximum	1160	1390	1730	2160	2220	2220	2070	2010	1760	1500	1170	1020	1630
	Diffuse	420	500	610	690	820	910	910	850	750	580	440	390	660
Clear Day	Global	1330	1640	2010	2340	2510	2540	2490	2330	2050	1680	1350	1210	1960
NORTH	Global	270	330	390	470	570	630	600	510	430	360	290	260	430
	Diffuse	270	330	390	450	510	540	530	480	430	360	290	260	400
Clear Day	Global	240	290	360	440	590	700	640	490	400	330	260	230	420
EAST	Global	610	740	900	1070	1090	1050	1060	1020	890	790	670	570	870
	Diffuse	330	400	490	570	620	640	650	620	550	450	360	310	500
Clear Day	Global	870	1030	1190	1310	1340	1330	1300	1250	1160	1020	870	800	1120
SOUTH	Global	1240	1220	1130	910	670	580	610	750	940	1150	1260	1220	970
	Diffuse	440	480	530	540	530	530	530	550	570	530	470	430	510
Clear Day	Global	1990	1870	1530	1040	710	590	630	890	1300	1680	1880	1940	1340
WEST	Global	610	740	910	1070	1050	940	930	900	840	750	640	560	830
	Diffuse	340	400	490	570	620	630	620	590	540	450	360	310	490
Clear Day	Global	870	1030	1190	1310	1340	1330	1300	1250	1160	1020	870	800	1120

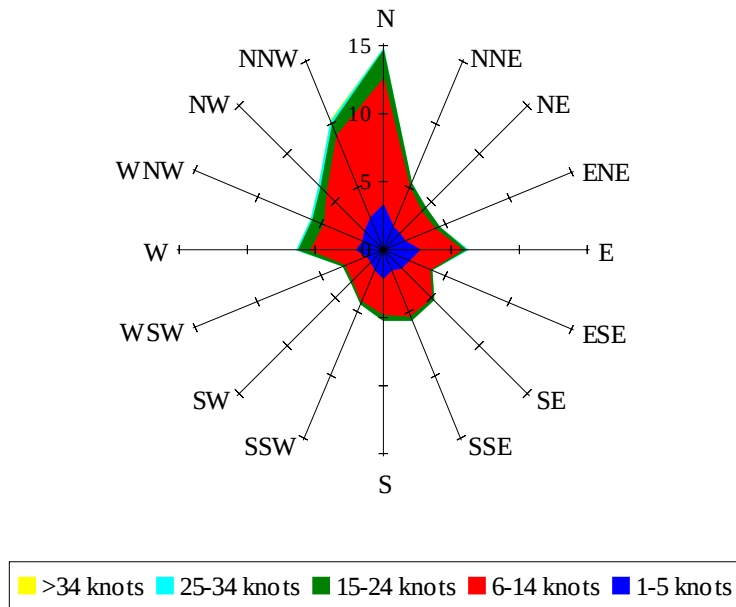
Average Annual Solar Heat and Illumination – Nearest Available Site

(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 NORTH	Unshaded	680	860	1140	1430	1490	1410	1390	1300	1130	940	740	620	1100
	Unshaded	190	230	270	320	370	400	390	340	300	250	200	180	290
	Shaded	170	200	240	290	330	350	340	300	260	220	180	160	250
EAST	Unshaded	430	520	640	770	770	740	760	730	630	550	470	400	620
	Shaded	370	450	550	640	640	610	630	610	530	470	410	350	520
SOUTH	Unshaded	910	870	740	540	400	370	380	450	600	800	920	910	660
	Shaded	860	710	430	330	330	320	330	340	350	580	840	880	520
WEST	Unshaded	430	520	650	760	740	660	650	640	590	530	450	390	580
	Shaded	370	450	550	640	610	540	540	530	490	450	380	340	490

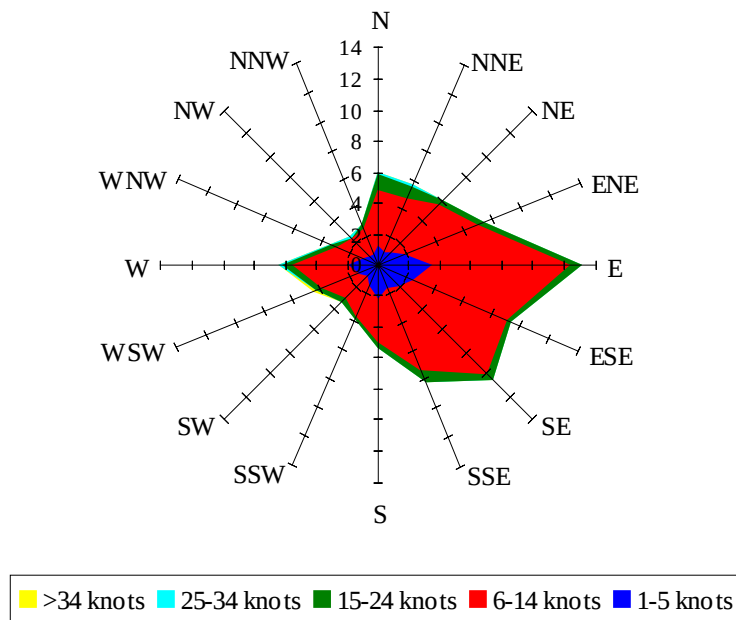
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9											
		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	37	78	93	79	39	34	77	102	101	74
	M.Cloudy	25	54	65	57	27	25	59	80	75	49
NORTH	M.Clear	10	15	16	15	10	23	19	18	18	20
	M.Cloudy	10	17	19	17	10	16	19	20	20	18
EAST	M.Clear	73	66	18	15	10	61	74	41	18	17
	M.Cloudy	33	41	19	17	10	34	52	35	20	16
SOUTH	M.Clear	29	59	71	60	31	11	17	28	28	17
	M.Cloudy	17	38	47	41	19	10	18	26	25	16
WEST	M.Clear	10	15	16	63	74	11	17	18	46	76
	M.Cloudy	10	17	19	43	36	10	18	20	37	43
M.Clear	(% hrs)	41	42	40	39	41	42	32	29	30	27
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	21	65	91	89	59	20	53	65	48	13
	M.Cloudy	16	49	70	67	40	13	35	43	32	9
NORTH	M.Clear	8	16	18	18	15	7	12	13	11	5
	M.Cloudy	7	16	20	19	14	6	13	15	12	4
EAST	M.Clear	46	72	40	18	15	50	50	13	11	5
	M.Cloudy	24	47	33	19	14	18	27	15	12	4
SOUTH	M.Clear	12	41	60	59	37	39	78	88	72	27
	M.Cloudy	9	31	46	44	24	15	37	46	36	11
WEST	M.Clear	8	16	18	48	74	7	12	17	53	38
	M.Cloudy	7	16	20	37	40	6	13	16	29	14
M.Clear	(% hrs)	41	31	27	27	30	39	40	36	37	39

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



Percent Calm = 6.08

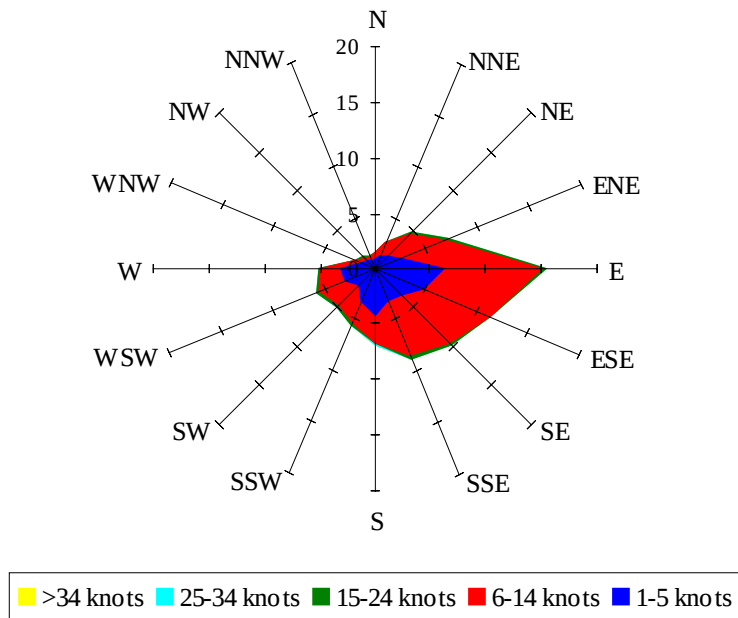
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 3.07

Wind Summary - June, July, and August

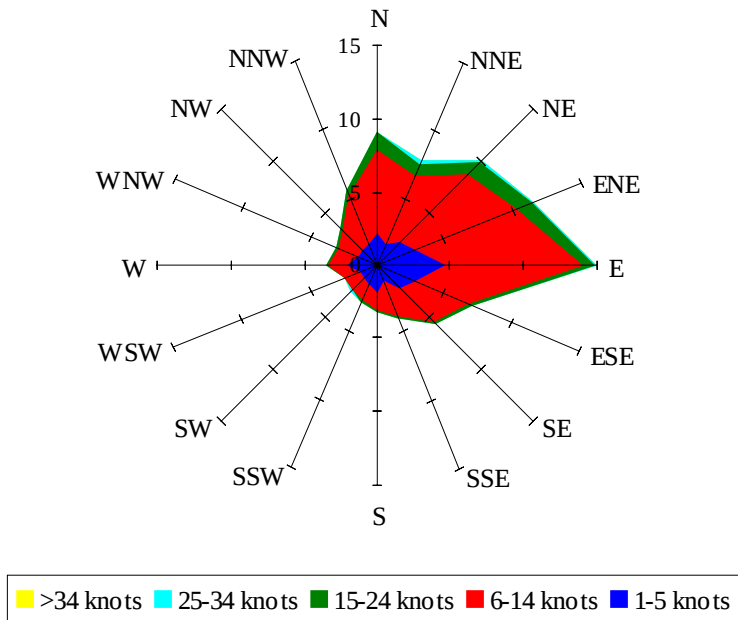
Labels of Percent Frequency on North Axis



Percent Calm = 7.00

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 4.60