

MOODY AFB/VALDOSTA GA

Latitude = 30.97 N

WMO No. 747810

Longitude = 83.20 W

Elevation = 233 feet

Period of Record = 1967 to 1996

Average Pressure = 29.78 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	99	78	111	5.8	W
0.4% Occurrence	96	77	111	5.7	W
1.0% Occurrence	94	77	112	5.4	W
2.0% Occurrence	92	76	111	5.2	W
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	37	33	21	4.3	N
99.0% Occurrence	32	28	17	4.3	N
99.6% Occurrence	29	25	13	4.7	N
Median of Extreme Lows	22	18	8	7.4	NNW
	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	93	147	5.1	W
0.4% Occurrence	80	92	136	5.4	W
1.0% Occurrence	79	90	132	5.2	W
2.0% Occurrence	78	88	128	5.1	W
	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	155	88	1.01	5.2	WSW
0.4% Occurrence	141	85	0.94	4.3	W
1.0% Occurrence	137	84	0.90	4.6	WSW
2.0% Occurrence	132	83	0.88	4.3	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		141	1880	1840	3696

Other Site Data

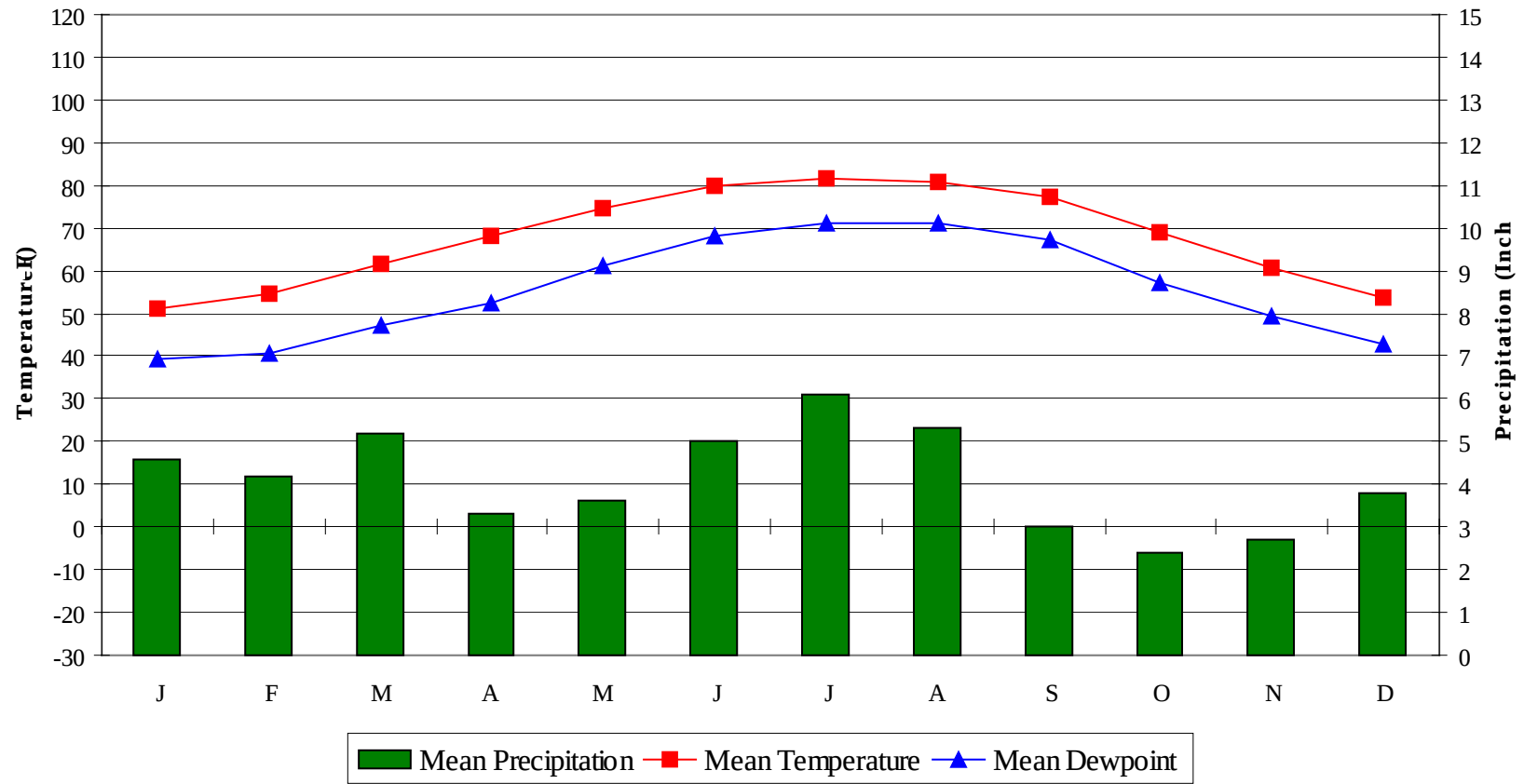
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
10	4.3	100	5.4 + 2.0
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
70.3	0	0	11

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

MOODY AFB/VALDOSTA GA

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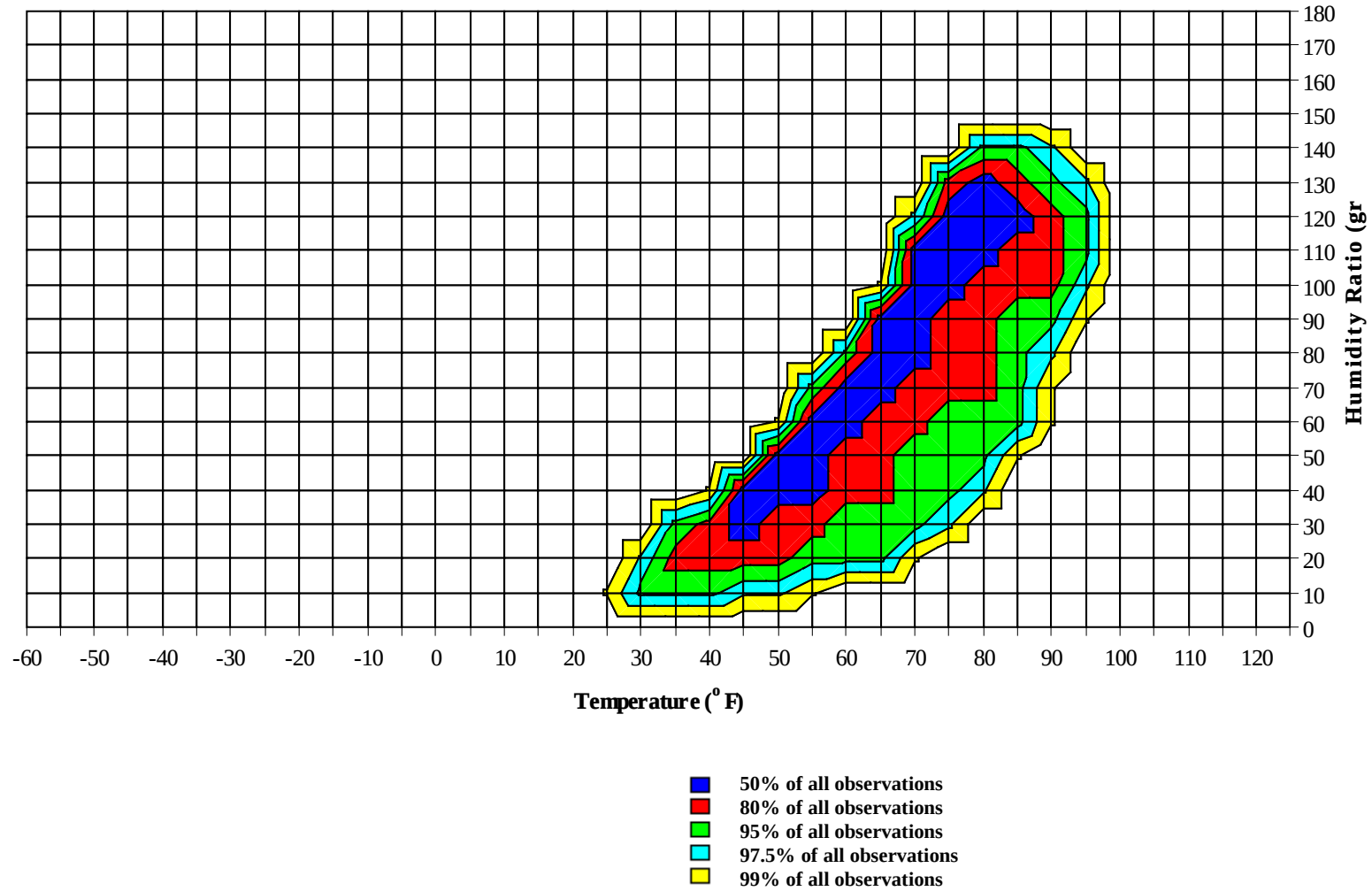
Average Annual Climate



MOODY AFB/VALDOSTA GA

WMO No. 747810

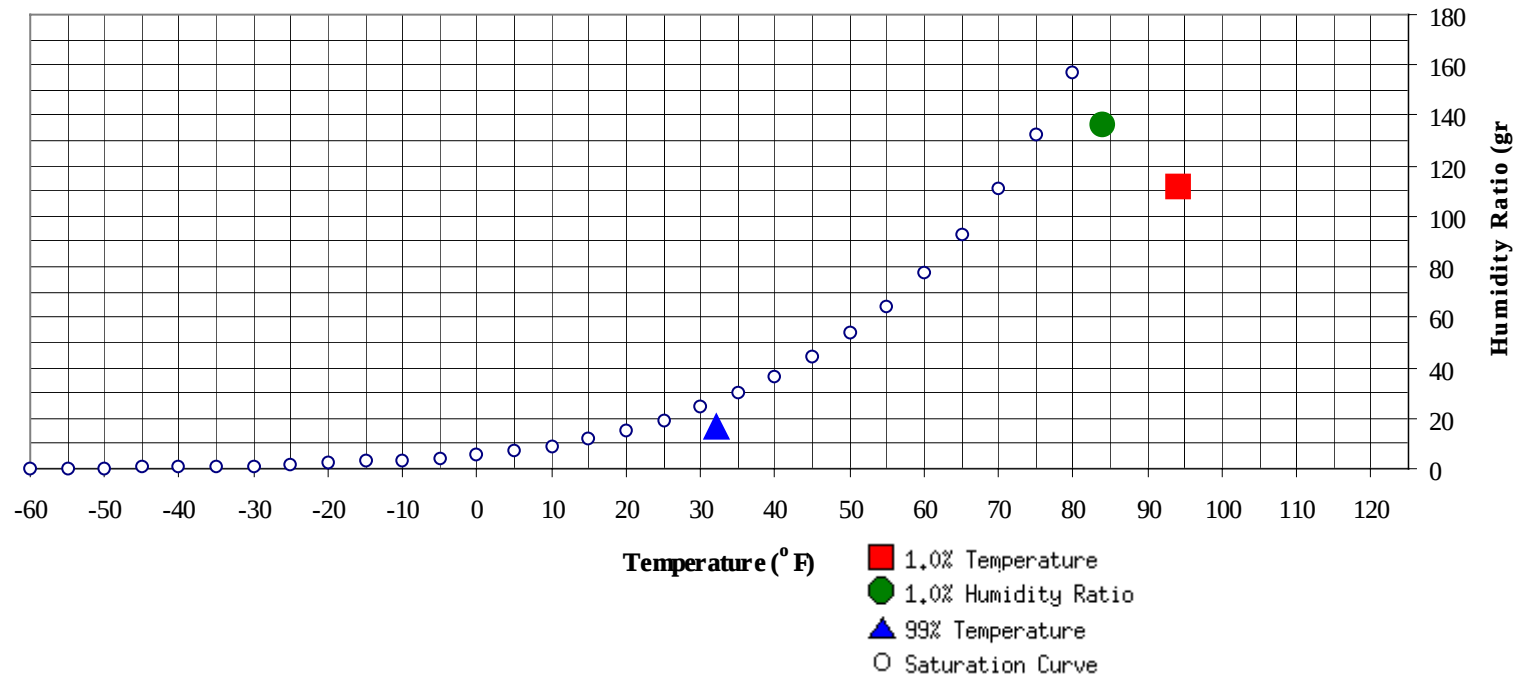
Long Term Psychrometric Summary



MOODY AFB/VALDOSTA GA

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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	32	16.6	10.2		136.5	84	78.1	75.9	41.6

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	94	111.7	76.7	40.2

MOODY AFB/VALDOSTA GA

WMO No. 747810

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		
100 / 104															
95 / 99															
90 / 94															
85 / 89												2	1	3	68.2
80 / 84		1	0	1	67.7		3	1	4	66.9		19	8	27	65.4
75 / 79		7	2	9	65.8		13	5	18	63.9	0	36	21	57	63.2
70 / 74	2	20	10	32	63.2	1	25	15	41	61.1	5	43	35	84	61.4
65 / 69	7	28	20	55	60.0	13	32	30	75	59.2	25	45	52	122	59.2
60 / 64	18	36	31	86	56.2	20	33	38	91	55.3	47	40	50	137	55.9
55 / 59	27	36	40	102	51.7	30	35	41	106	50.8	51	27	36	114	51.2
50 / 54	33	38	42	113	46.9	36	30	34	100	46.2	44	19	25	88	46.8
45 / 49	38	33	41	112	42.1	39	24	28	91	41.9	36	10	13	59	42.0
40 / 44	43	24	32	99	37.6	38	17	19	74	37.3	26	5	4	35	37.7
35 / 39	36	15	19	70	32.9	23	8	9	40	32.7	10	2	2	14	33.2
30 / 34	28	6	8	42	28.2	19	4	3	26	28.2	3	0	0	3	28.6
25 / 29	11	2	2	15	23.9	4	1	0	5	23.3	1	0	0	1	23.9
20 / 24	3	1	1	5	18.8	1	0		1	19.1	0			0	19.3
15 / 19	1	0	0	1	14.7	0			0	16.0					
10 / 14	0	0		0	10.0										
5 / 9	0	0		0	5.6										
0 / 4	0			0	2.0										

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.

MOODY AFB/VALDOSTA GA

WMO No. 747810

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		
100 / 104												1	0	1	77.9
95 / 99							1	0	1	70.6		11	4	15	76.8
90 / 94		2	1	3	69.0		14	5	19	72.1		49	20	69	75.0
85 / 89		19	8	27	67.7		52	23	76	70.3	0	77	35	112	74.0
80 / 84		47	25	72	65.9	1	75	43	120	68.7	8	62	56	127	73.2
75 / 79	1	55	38	94	63.8	13	59	60	132	67.5	73	30	74	177	72.1
70 / 74	15	48	52	116	62.3	68	33	71	173	66.5	114	9	46	168	69.4
65 / 69	50	36	51	137	60.1	92	10	34	136	63.2	39	1	4	44	64.6
60 / 64	64	20	37	121	56.6	49	3	8	60	58.2	5	0	0	5	60.3
55 / 59	55	9	17	82	52.1	21	1	2	24	53.8	0		0	0	55.1
50 / 54	34	3	8	45	47.3	4	0	0	4	49.8	0			0	50.6
45 / 49	16	1	2	19	42.9	0		0	0	45.5					
40 / 44	4	0	0	4	38.2										
35 / 39	1			1	35.2										
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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MOODY AFB/VALDOSTA GA

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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		
100 / 104		1	0	1	78.6		0		0	82.0					
95 / 99		16	5	22	77.6		9	2	11	78.6		2	0	2	76.8
90 / 94		69	28	97	76.8		62	21	83	77.0		31	8	39	75.2
85 / 89	0	81	37	117	76.1	0	83	35	118	76.0		75	24	99	74.2
80 / 84	24	55	68	147	75.1	13	60	65	138	75.2	1	65	48	115	72.9
75 / 79	121	23	85	229	73.2	110	28	92	230	73.3	51	42	85	177	71.6
70 / 74	97	4	25	126	70.6	113	5	32	151	70.5	121	18	53	192	69.1
65 / 69	5		0	5	65.7	11	0	1	12	65.6	42	5	15	62	63.6
60 / 64						1	0	0	1	59.9	18	1	6	25	58.5
55 / 59											6	0	1	7	53.5
50 / 54											1	0		1	49.9
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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MOODY AFB/VALDOSTA GA

WMO No. 747810

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		
100 / 104															
95 / 99															
90 / 94		3	1	4	73.7										
85 / 89		23	5	28	71.4		1		1	73.2					
80 / 84		54	18	71	69.2		14	2	16	69.8		3	0	3	68.8
75 / 79	6	59	41	106	67.3	0	39	11	50	66.3	0	16	3	19	66.6
70 / 74	38	54	67	158	65.4	12	43	34	90	64.5	3	27	14	44	63.9
65 / 69	63	30	52	145	62.1	31	42	47	120	61.1	14	32	25	71	60.9
60 / 64	53	16	34	104	57.4	42	37	46	125	56.8	22	38	38	98	56.6
55 / 59	41	7	20	68	52.5	36	30	36	102	51.3	32	39	44	115	51.7
50 / 54	26	2	8	37	47.8	38	19	30	87	46.8	39	35	43	117	47.1
45 / 49	16	1	2	19	43.5	33	10	21	64	42.4	39	27	34	100	42.2
40 / 44	3	0	0	3	39.3	27	5	10	42	38.1	39	18	27	84	37.7
35 / 39	1			1	35.9	18	1	2	21	33.9	30	8	13	50	33.2
30 / 34						3	0	0	3	29.6	21	4	4	29	28.5
25 / 29											6	1	1	8	23.9
20 / 24											2	1	1	4	19.3
15 / 19											1	0		1	13.7
10 / 14															
5 / 9															
0 / 4															

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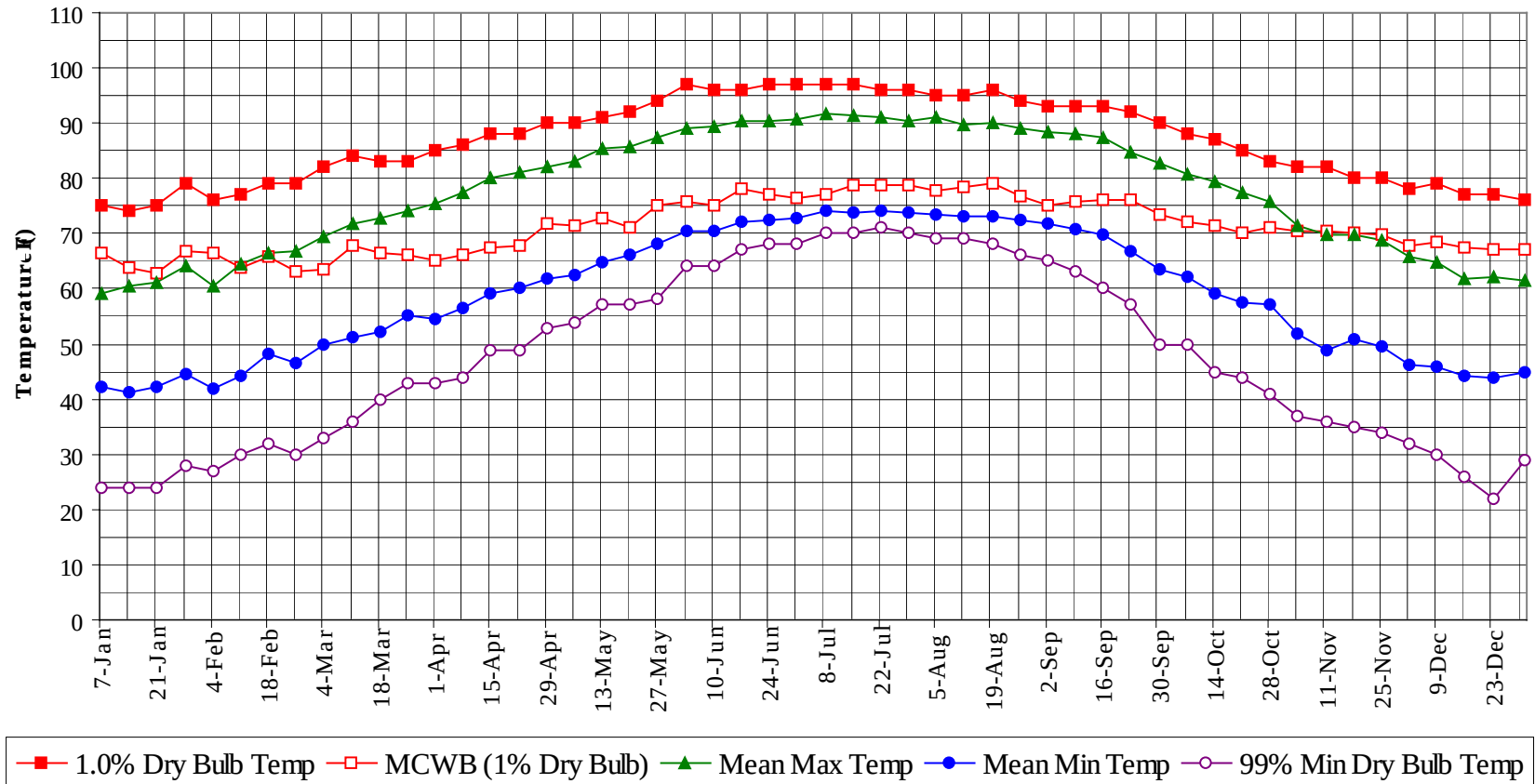
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1967 to 1996

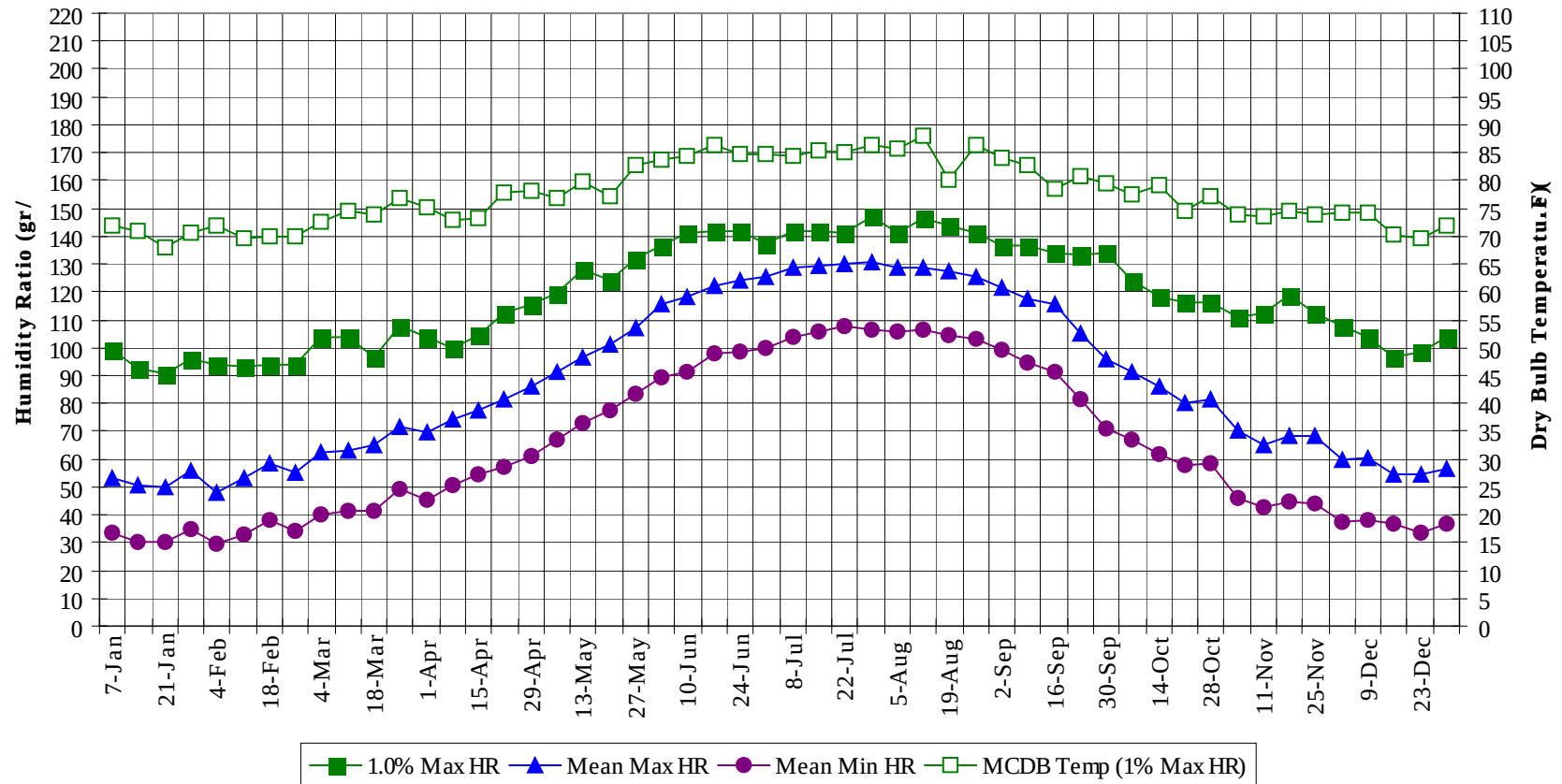
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		3	1	4	78.7
95 / 99		38	13	51	77.3
90 / 94		230	85	315	75.9
85 / 89	1	415	170	585	73.9
80 / 84	48	458	336	842	71.8
75 / 79	384	408	520	1312	70.0
70 / 74	598	330	455	1383	66.7
65 / 69	393	260	331	984	61.3
60 / 64	339	223	287	849	56.6
55 / 59	296	184	236	716	51.6
50 / 54	253	144	190	586	46.9
45 / 49	215	106	139	460	42.2
40 / 44	176	68	93	337	37.6
35 / 39	115	34	44	192	33.1
30 / 34	73	14	16	104	28.4
25 / 29	21	5	4	30	23.8
20 / 24	5	1	1	7	19.0
15 / 19	2	1	0	3	14.4
10 / 14	0	0		0	10.0
5 / 9	0	0		0	5.6
0 / 4	0			0	2.0

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Annual Summary of Temperatures



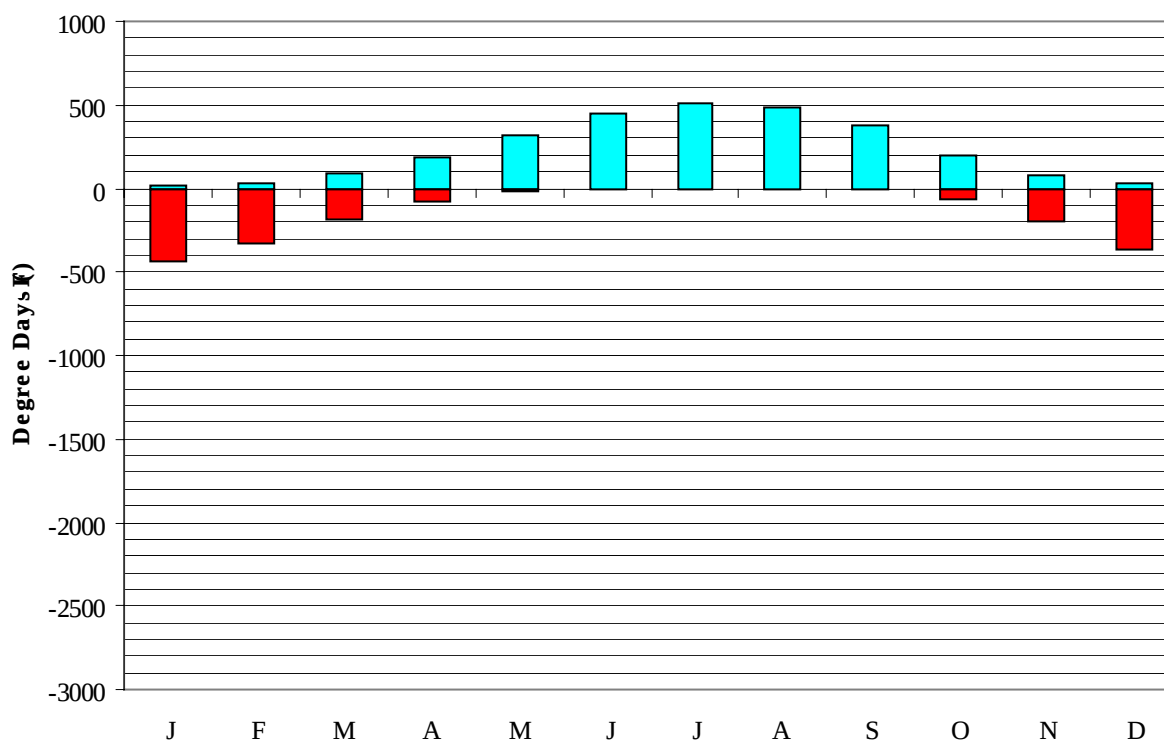
Long Term Humidity and Dry Bulb Temperature Summary



MOODY AFB/VALDOSTA GA**WMO No. 747810****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	75.0	66.6	59.1	42.4	24.0	99.4	71.9	53.0	33.7
14-Jan	74.0	63.8	60.4	41.1	24.0	92.4	70.9	50.7	30.3
21-Jan	75.0	62.8	61.1	42.1	24.0	90.3	67.9	49.9	30.2
28-Jan	79.0	66.9	64.0	44.5	28.0	95.9	70.6	55.7	35.1
4-Feb	76.0	66.4	60.6	41.9	27.0	93.8	71.8	48.2	29.9
11-Feb	77.0	64.0	64.6	44.3	30.0	93.1	69.7	52.9	32.5
18-Feb	79.0	65.7	66.5	48.2	32.0	93.8	69.8	58.7	37.9
25-Feb	79.0	63.0	66.7	46.4	30.0	93.8	70.0	55.3	34.1
4-Mar	82.0	63.5	69.6	49.7	33.0	103.6	72.7	62.3	40.1
11-Mar	84.0	67.9	71.7	51.1	36.0	103.6	74.6	63.1	41.5
18-Mar	83.0	66.3	72.9	52.3	40.0	96.6	73.9	64.9	41.2
25-Mar	83.0	66.1	74.2	55.2	43.0	107.8	77.0	71.4	49.3
1-Apr	85.0	65.0	75.4	54.6	43.0	103.6	75.3	69.9	45.4
8-Apr	86.0	66.2	77.6	56.6	44.0	100.1	72.9	74.2	50.9
15-Apr	88.0	67.4	80.2	59.2	49.0	104.3	73.1	77.6	54.2
22-Apr	88.0	67.9	81.0	60.1	49.0	112.0	77.9	81.6	56.9
29-Apr	90.0	71.9	82.3	61.9	53.0	115.5	78.2	86.3	61.4
6-May	90.0	71.3	83.1	62.6	54.0	119.7	76.9	91.6	66.7
13-May	91.0	72.8	85.3	64.8	57.0	128.1	79.8	96.3	73.0
20-May	92.0	71.2	85.7	66.1	57.0	123.9	77.0	101.1	77.2
27-May	94.0	75.0	87.4	68.1	58.0	132.3	82.7	107.3	83.4
3-Jun	97.0	75.6	89.1	70.4	64.0	136.5	83.7	115.7	89.1
10-Jun	96.0	74.9	89.3	70.5	64.0	141.4	84.3	118.1	91.2
17-Jun	96.0	78.0	90.3	72.0	67.0	142.1	86.5	122.0	98.0
24-Jun	97.0	77.1	90.5	72.4	68.0	142.1	84.7	124.4	98.4
1-Jul	97.0	76.5	90.8	72.6	68.0	137.2	84.7	125.6	100.1
8-Jul	97.0	77.1	91.7	74.1	70.0	142.1	84.4	128.5	104.0
15-Jul	97.0	78.7	91.5	73.7	70.0	142.1	85.5	129.6	105.8
22-Jul	96.0	78.7	91.0	74.3	71.0	141.4	85.0	130.3	108.0
29-Jul	96.0	78.6	90.3	73.7	70.0	147.0	86.5	130.8	106.7
5-Aug	95.0	77.9	91.0	73.5	69.0	141.4	85.8	128.9	105.9
12-Aug	95.0	78.3	89.6	73.1	69.0	146.3	88.1	128.9	106.2
19-Aug	96.0	79.2	90.2	73.2	68.0	143.5	80.2	127.2	104.5
26-Aug	94.0	76.8	89.0	72.4	66.0	141.4	86.2	125.5	102.9
2-Sep	93.0	75.0	88.4	71.7	65.0	136.5	83.9	121.8	99.3
9-Sep	93.0	75.8	88.2	70.8	63.0	136.5	82.8	117.4	94.5
16-Sep	93.0	76.1	87.4	69.9	60.0	133.7	78.3	115.8	91.5
23-Sep	92.0	76.0	84.8	66.8	57.0	133.0	80.8	105.2	81.2
30-Sep	90.0	73.6	82.8	63.6	50.0	133.7	79.4	96.2	70.7
7-Oct	88.0	72.0	80.6	62.0	50.0	123.9	77.6	91.2	66.9
14-Oct	87.0	71.6	79.4	59.3	45.0	118.3	79.2	85.7	62.0
21-Oct	85.0	70.1	77.3	57.6	44.0	116.2	74.6	80.3	57.9
28-Oct	83.0	71.0	75.6	57.2	41.0	116.2	77.3	81.1	58.4
4-Nov	82.0	70.6	71.6	51.7	37.0	111.3	73.9	70.0	46.3
11-Nov	82.0	70.3	69.8	48.9	36.0	112.0	73.5	65.0	42.5
18-Nov	80.0	70.0	69.9	50.8	35.0	119.0	74.4	68.2	44.4
25-Nov	80.0	69.9	68.9	49.4	34.0	112.0	74.0	68.1	43.9
2-Dec	78.0	67.7	65.8	46.1	32.0	107.8	74.4	59.6	37.6
9-Dec	79.0	68.6	64.8	45.8	30.0	103.6	74.2	60.2	37.9
16-Dec	77.0	67.4	61.9	44.2	26.0	96.6	70.3	54.6	36.8
23-Dec	77.0	67.0	62.1	43.8	22.0	98.7	69.7	54.3	33.5
31-Dec	76.0	67.0	61.4	44.8	29.0	103.6	71.8	56.7	36.7

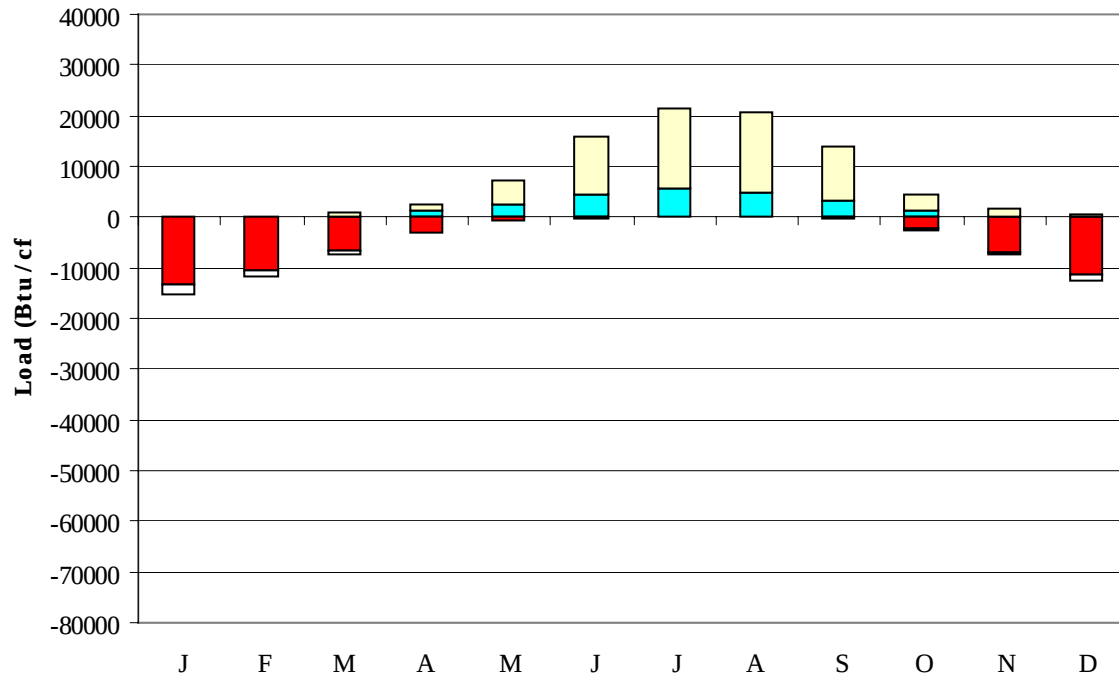
Degree Days, Heating and Cooling (Base 65°F)



■ Mean Cooling Degree Days
 ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	20	433
FEB	28	329
MAR	87	189
APR	181	74
MAY	313	15
JUN	449	1
JUL	511	0
AUG	488	0
SEP	382	5
OCT	194	62
NOV	74	202
DEC	30	360
ANN	2757	1670

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	17	-13387	273	-1787
FEB	50	-10403	274	-1368
MAR	328	-6528	641	-662
APR	1131	-2900	1172	-162
MAY	2531	-767	4562	-2
JUN	4612	-69	11209	0
JUL	5555	-2	15787	0
AUG	5005	-13	15796	0
SEP	3391	-267	10369	0
OCT	1126	-2424	3284	-43
NOV	204	-6822	1469	-521
DEC	46	-11409	497	-1249
ANN	23996	-54991	65333	-5794

Average Annual Solar Radiation – Nearest Available Site

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

City: TALLAHASSEE
 State: FL
 WBAN No: 93805
 Lat(N): 30.38
 Long(W): 84.37
 Elev(ft): 69

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.892
 Vert Gap: 0.651

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	910	1170	1490	1870	1980	1940	1840	1730	1560	1370	1050	860	1480
	Std Dev	75	101	109	122	112	128	120	111	133	104	87	66	45
	Minimum	800	970	1260	1600	1710	1720	1610	1470	1090	1170	820	730	1370
	Maximum	1060	1380	1680	2130	2190	2220	2040	1960	1800	1570	1190	970	1570
	Diffuse	400	490	620	720	850	930	940	870	740	530	420	380	660
Clear Day	Global	1280	1600	1990	2330	2510	2550	2480	2310	2020	1650	1310	1170	1940
NORTH	Global	260	320	390	470	570	620	590	500	430	350	280	250	420
	Diffuse	260	320	390	450	510	540	530	480	430	350	280	250	400
Clear Day	Global	240	290	360	440	590	690	630	490	400	330	260	230	410
EAST	Global	550	680	840	1010	1050	1040	1020	990	890	810	630	520	840
	Diffuse	310	380	470	560	620	650	640	610	540	430	340	290	490
Clear Day	Global	860	1020	1200	1320	1340	1330	1300	1250	1150	1000	850	780	1120
SOUTH	Global	1160	1190	1090	910	690	600	620	760	970	1260	1270	1170	970
	Diffuse	410	460	520	540	540	540	540	560	570	520	450	400	510
Clear Day	Global	1990	1890	1570	1100	750	620	670	930	1340	1700	1880	1950	1360
WEST	Global	590	730	880	1040	1040	970	920	890	840	820	660	550	830
	Diffuse	320	390	490	580	630	640	630	600	540	440	350	300	490
Clear Day	Global	860	1020	1200	1320	1340	1330	1300	1250	1150	1000	850	780	1120

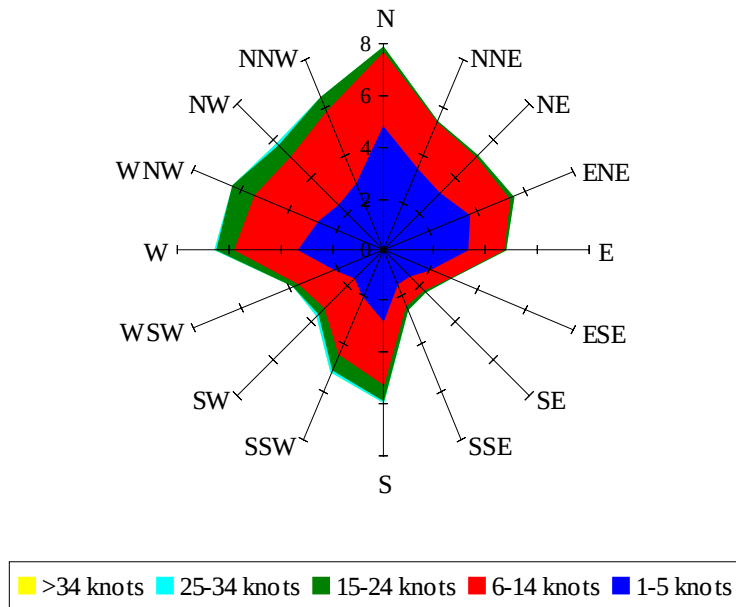
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	630	820	1070	1360	1450	1410	1340	1260	1120	980	730	590	1060
NORTH	Unshaded	180	220	270	320	370	400	390	340	300	240	200	170	280
	Shaded	160	190	240	280	320	340	330	300	260	220	170	150	250
EAST	Unshaded	380	480	590	720	750	740	730	700	630	570	440	360	590
	Shaded	320	400	490	590	610	600	590	570	520	480	380	310	490
SOUTH	Unshaded	850	850	720	550	420	380	390	470	630	870	930	870	660
	Shaded	800	690	410	330	330	330	330	340	350	620	850	840	520
WEST	Unshaded	410	510	620	740	740	690	640	630	600	580	460	380	580
	Shaded	350	440	520	610	610	560	530	510	500	490	400	330	490

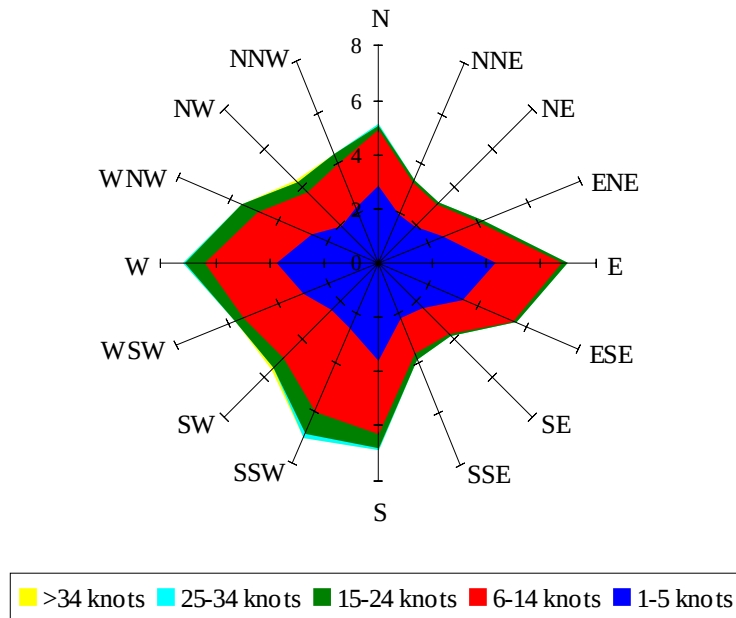
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	32	74	93	81	45	29	74	99	100	75
	M.Cloudy	18	45	61	54	29	21	54	77	78	53
NORTH	M.Clear	9	14	16	15	11	21	19	18	18	18
	M.Cloudy	8	16	18	17	11	14	19	20	19	17
EAST	M.Clear	70	69	24	15	11	54	76	46	18	18
	M.Cloudy	22	36	22	17	11	27	50	38	19	17
SOUTH	M.Clear	25	58	73	64	36	10	17	29	30	18
	M.Cloudy	12	31	44	39	20	9	18	27	27	17
WEST	M.Clear	9	14	16	59	77	10	17	18	40	71
	M.Cloudy	8	16	18	37	36	9	18	20	34	46
M.Clear	(% hrs)	38	40	36	38	39	42	39	32	26	28
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	16	62	89	88	60	14	50	64	50	16
	M.Cloudy	10	41	66	66	43	8	29	38	32	10
NORTH	M.Clear	7	15	18	18	16	5	11	13	11	6
	M.Cloudy	5	15	19	19	15	4	11	14	12	5
EAST	M.Clear	39	74	44	18	16	42	53	14	11	6
	M.Cloudy	15	40	35	19	15	11	24	14	12	5
SOUTH	M.Clear	9	41	62	61	41	31	76	91	77	35
	M.Cloudy	6	25	44	44	27	9	31	40	35	12
WEST	M.Clear	7	15	18	42	70	5	11	13	51	45
	M.Cloudy	5	15	19	33	41	4	11	14	26	14
M.Clear	(% hrs)	46	44	35	32	35	36	37	37	38	41

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



Percent Calm = 20.44

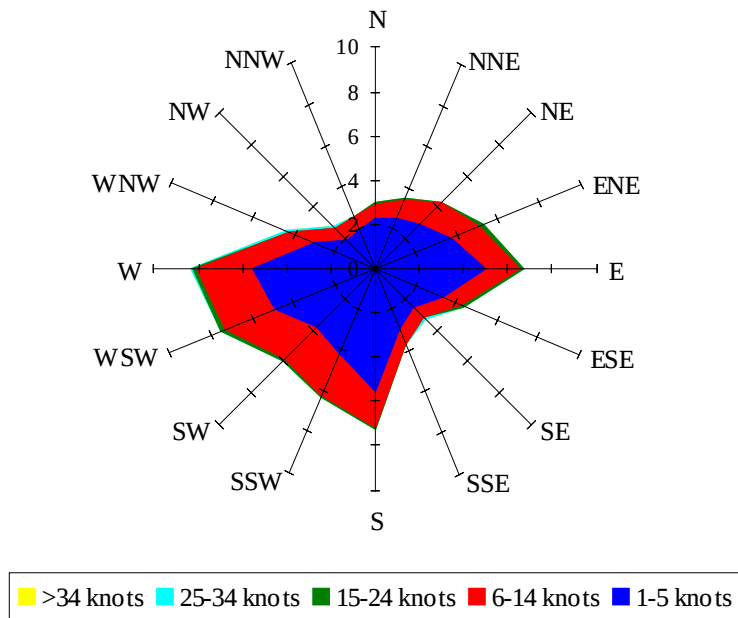
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 18.58

Wind Summary - June, July, and August

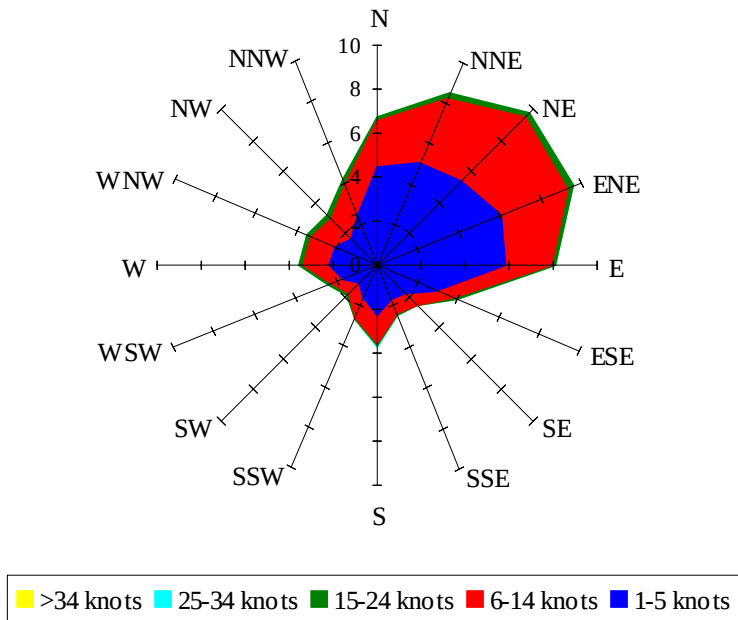
Labels of Percent Frequency on North Axis



Percent Calm = 21.85

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 23.54