

SEYCHELLES SC

Latitude = 4.67 S

WMO No. 639800

Longitude = 55.52 E

Elevation = 10 feet

Period of Record = 1973 to 1996

Average Pressure = 29.82 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	91	79	134	10.2	E
0.4% Occurrence	89	79	134	9.5	E
1.0% Occurrence	88	79	134	9.4	E
2.0% Occurrence	88	79	134	9.4	E
Mean Daily Range	7	-	-	-	-
97.5% Occurrence	75	73	119	7.5	SSE
99.0% Occurrence	74	73	118	7.4	SSE
99.6% Occurrence	73	72	116	7.4	SSE
Median of Extreme Lows	69	66	102	12.1	SE
	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	84	86	171	9.3	ESE
0.4% Occurrence	81	87	146	9.0	E
1.0% Occurrence	80	86	141	8.9	SE
2.0% Occurrence	80	86	141	8.9	SE
	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	179	85	1.18	13.8	ESE
0.4% Occurrence	151	84	0.99	8.7	SE
1.0% Occurrence	147	84	0.97	7.7	SE
2.0% Occurrence	142	83	0.94	7.6	SE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		1	4983	7969	8500

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	N/A	N/A	10.1 + 4.5
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 (#)
83.2	N/A	N/A	0

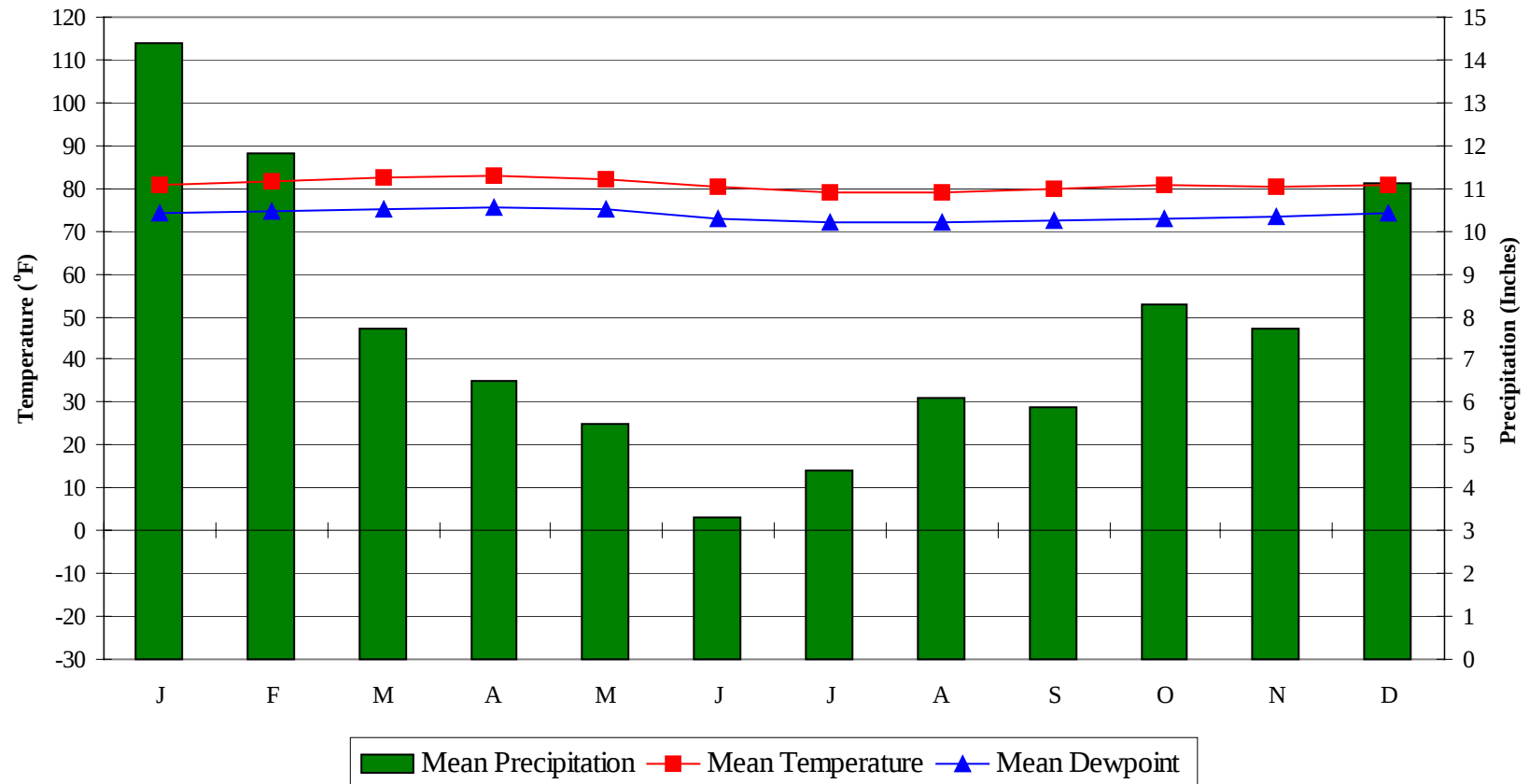
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

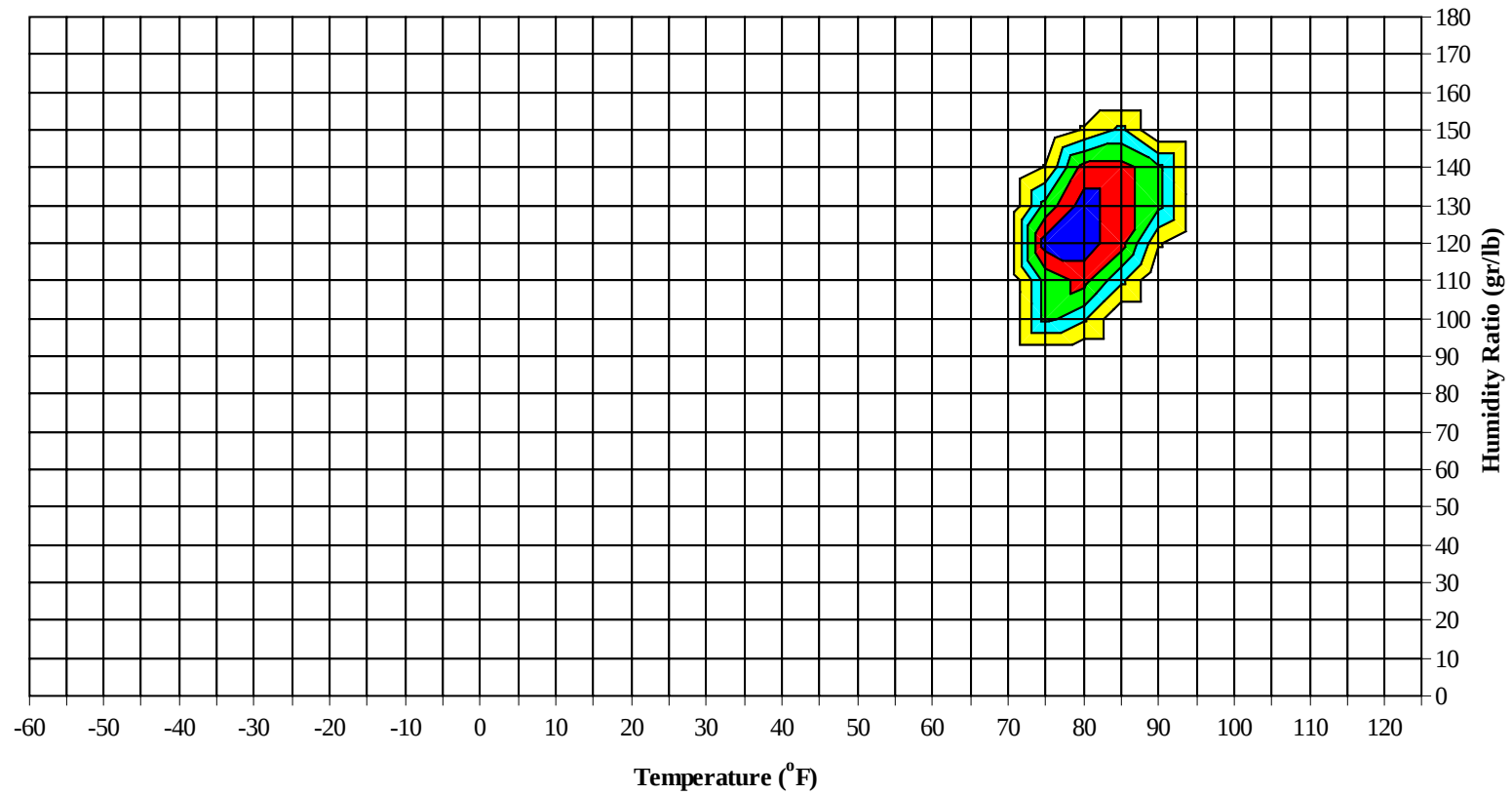


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Long Term Psychrometric Summary



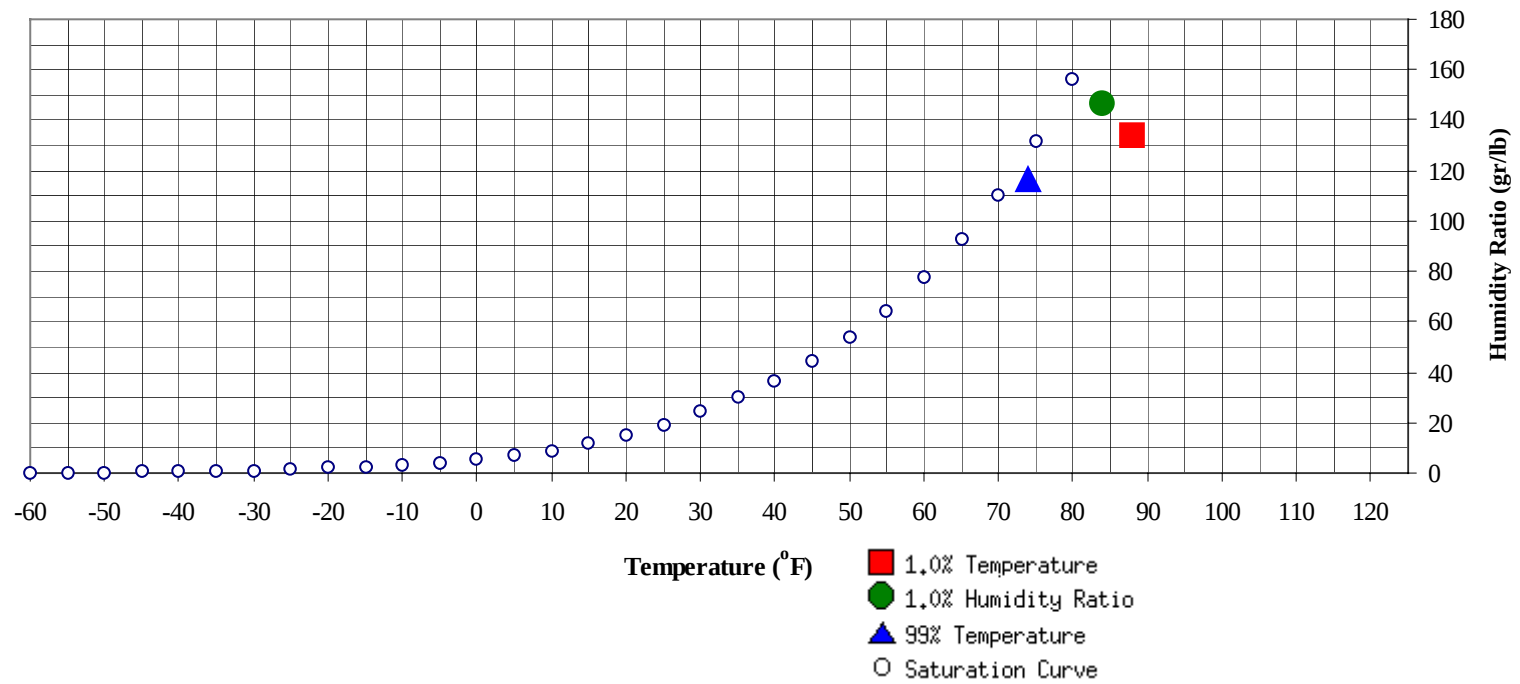
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	74	116.2	35.9		147	83.9	79.6	78.1	43.2

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	88	133.7	78.7	42.1

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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		0	0	0	77.7		2		2	78.7	0	4		4	78.6
85 / 89		68	2	71	77.9	0	111	6	117	78.0	2	168	8	178	78.3
80 / 84	73	151	133	357	76.7	106	97	161	365	76.7	114	66	184	364	77.0
75 / 79	167	27	110	305	74.9	116	13	56	185	75.2	130	10	56	196	75.4
70 / 74	7	2	2	11	72.2	2	1	1	4	72.1	2	0	0	2	71.3
65 / 69	0			0	63.0		0		0	66.0		0	0	0	61.3
60 / 64												0		0	59.0
55 / 59															

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 = 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	0	81.5										
90 / 94	0	15	0	15	79.3		4		4	79.8	0	0	0	0	82.5
85 / 89	2	168	14	184	78.8	1	116	3	121	78.7	0	17	0	17	77.1
80 / 84	121	50	177	348	77.3	153	119	193	465	76.9	68	199	99	366	75.7
75 / 79	117	7	49	173	75.9	93	8	51	153	75.2	167	23	139	329	74.1
70 / 74	0	0	0	0	68.5	1	0		1	72.1	4	1	2	7	70.9
65 / 69	0		0	0								0	0	0	
60 / 64															
55 / 59															

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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	0			0	77.0										
90 / 94	0	0	0	0	83.0								0	0	76.0
85 / 89	0	3	0	3	76.9		1		1	77.9	0	14	0	14	77.2
80 / 84	12	192	29	232	75.1	9	194	26	229	75.0	41	201	83	326	75.4
75 / 79	228	52	217	497	73.4	233	52	218	503	73.4	194	23	156	374	73.9
70 / 74	8	2	2	12	70.9	6	2	3	11	71.9	4	1	1	6	71.8
65 / 69	0	0		0	68.0						0	0	0	0	60.5
60 / 64											0	0	0	0	56.0
55 / 59													0	0	

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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	0	0		0	81.5		0		0	73.0		1		1	77.9
85 / 89	0	43	0	43	77.0	0	68	1	69	77.0	0	79	1	80	77.4
80 / 84	73	186	125	383	75.7	57	153	110	320	75.9	63	145	121	329	76.5
75 / 79	168	18	122	309	74.3	170	19	125	314	74.4	181	23	125	329	74.8
70 / 74	6	1	1	8	71.7	13	0	3	17	72.0	4	0	1	5	71.8
65 / 69	0	0	0	0	62.0			0	0		0			0	
60 / 64		0		0	53.5										
55 / 59															

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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Period of Record = 1973 to 1996

Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99	0	0	0	0	80.6
90 / 94	1	24	1	27	79.3
85 / 89	5	807	34	846	78.1
80 / 84	849	1792	1374	4015	76.2
75 / 79	2002	284	1491	3777	74.3
70 / 74	61	12	19	93	71.7
65 / 69	1	1	1	3	62.5
60 / 64	0	0	0	0	55.6
55 / 59			0	0	

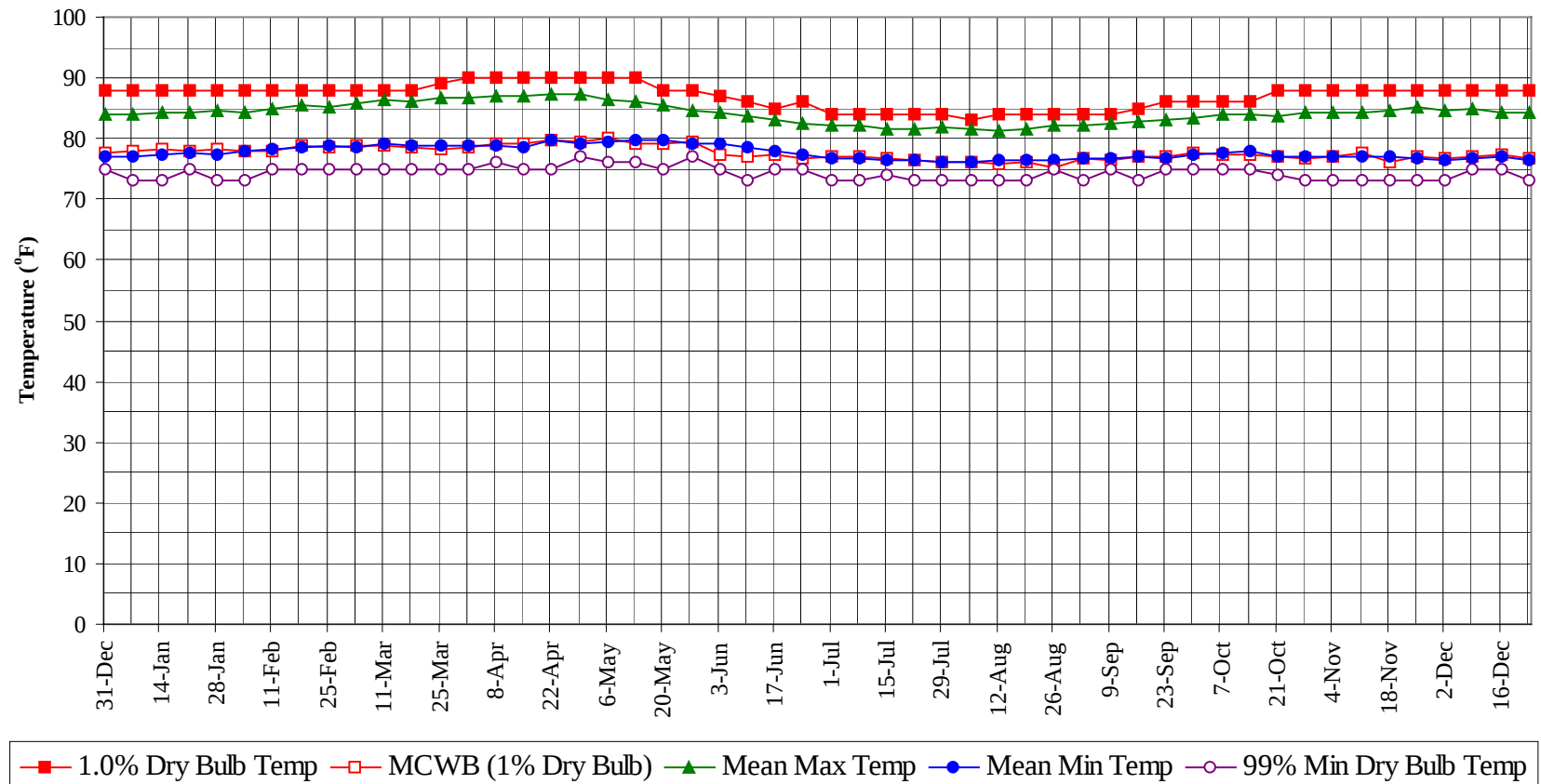
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

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Annual Summary of Temperatures

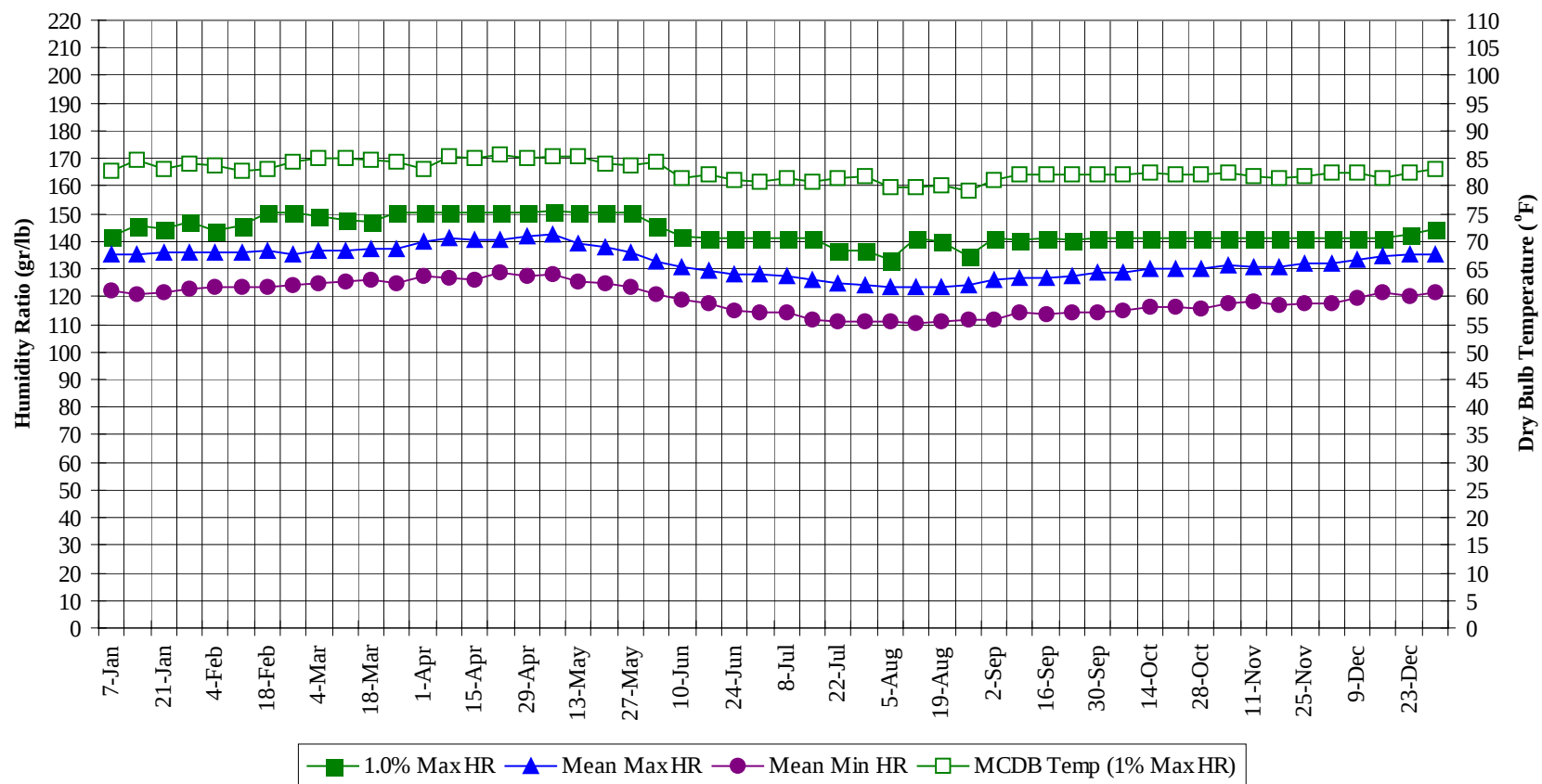


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Long Term Humidity and Dry Bulb Temperature Summary



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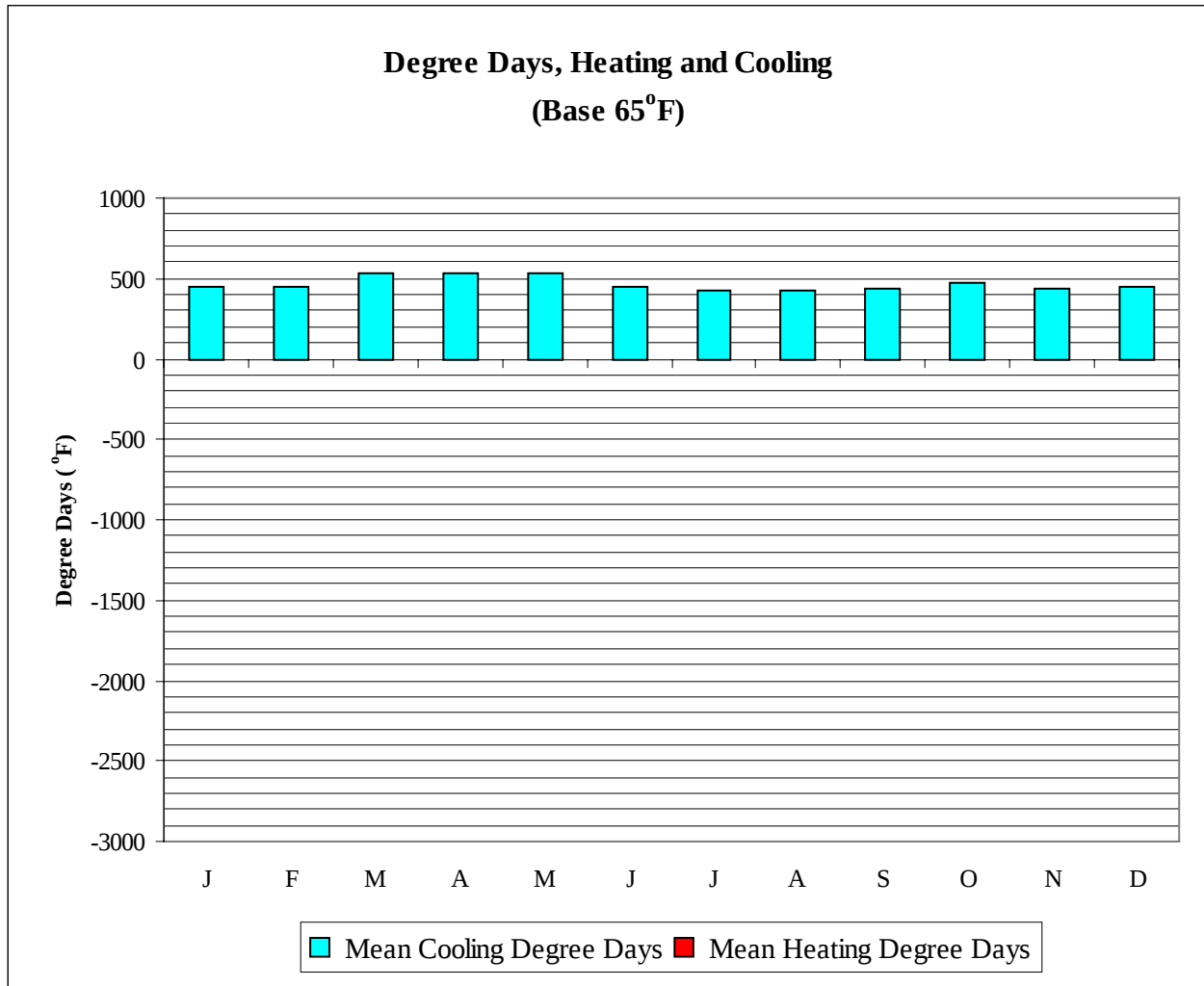
Long Term Dry Bulb Temperature and Humidity Summary

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	88.0	78.0	84.0	77.1	73.0	142.1	82.6	135.0	122.2
14-Jan	88.0	78.3	84.3	77.4	73.0	145.6	84.9	135.4	120.8
21-Jan	88.0	78.0	84.2	77.6	75.0	144.2	83.1	136.0	121.7
28-Jan	88.0	78.2	84.7	77.5	73.0	147.0	84.0	135.7	123.0
4-Feb	88.0	78.0	84.3	77.8	73.0	143.5	83.9	135.9	123.6
11-Feb	88.0	78.1	85.0	78.4	75.0	145.6	82.8	136.2	123.6
18-Feb	88.0	78.8	85.4	78.5	75.0	150.5	83.2	136.4	123.4
25-Feb	88.0	78.4	85.2	79.0	75.0	150.5	84.5	135.3	124.4
4-Mar	88.0	78.8	85.7	78.7	75.0	149.1	85.2	136.6	124.9
11-Mar	88.0	78.7	86.3	79.3	75.0	147.7	85.2	136.9	125.3
18-Mar	88.0	78.7	86.1	78.9	75.0	147.0	84.7	137.3	126.4
25-Mar	89.0	78.2	86.6	78.8	75.0	150.5	84.5	137.0	124.7
1-Apr	90.0	78.7	86.7	78.9	75.0	150.5	83.2	140.1	127.2
8-Apr	90.0	79.2	87.1	78.7	76.0	150.5	85.4	141.1	126.7
15-Apr	90.0	79.1	87.0	78.5	75.0	150.5	85.2	140.7	126.2
22-Apr	90.0	79.6	87.5	79.7	75.0	150.5	85.7	140.6	128.7
29-Apr	90.0	79.6	87.3	79.1	77.0	150.5	85.2	141.7	127.5
6-May	90.0	80.2	86.3	79.5	76.0	151.2	85.4	142.3	128.4
13-May	90.0	79.1	86.3	79.6	76.0	150.5	85.3	139.4	125.7
20-May	88.0	79.0	85.6	79.8	75.0	150.5	84.0	137.6	125.0
27-May	88.0	79.6	84.6	79.2	77.0	150.5	83.7	136.0	123.5
3-Jun	87.0	77.3	84.2	79.0	75.0	145.6	84.3	132.6	120.8
10-Jun	86.0	77.2	83.7	78.6	73.0	142.1	81.6	131.0	118.6
17-Jun	85.0	77.2	82.9	77.9	75.0	141.4	82.0	129.1	117.4
24-Jun	86.0	76.8	82.6	77.4	75.0	141.4	81.3	128.0	115.1
1-Jul	84.0	76.9	82.1	76.8	73.0	141.4	80.8	128.1	114.4
8-Jul	84.0	77.1	82.1	76.9	73.0	141.4	81.3	127.2	114.4
15-Jul	84.0	76.7	81.7	76.6	74.0	141.4	80.8	126.0	111.6
22-Jul	84.0	76.5	81.6	76.3	73.0	136.5	81.4	124.9	111.0
29-Jul	84.0	76.3	81.8	76.1	73.0	136.5	81.8	123.9	111.0
5-Aug	83.0	76.0	81.5	76.1	73.0	133.0	79.8	123.6	110.9
12-Aug	84.0	75.7	81.4	76.3	73.0	141.4	79.9	123.7	110.5
19-Aug	84.0	76.2	81.6	76.3	73.0	140.0	80.2	123.6	110.8
26-Aug	84.0	75.4	82.0	76.6	75.0	134.4	79.0	124.3	111.4
2-Sep	84.0	76.7	82.1	76.8	73.0	141.4	81.3	126.0	111.9
9-Sep	84.0	76.3	82.6	76.8	75.0	140.7	81.9	126.7	114.0
16-Sep	85.0	77.1	82.8	77.0	73.0	141.4	82.1	126.8	113.7
23-Sep	86.0	77.1	83.1	76.7	75.0	140.7	82.1	127.7	114.2
30-Sep	86.0	77.5	83.3	77.4	75.0	141.4	82.3	128.6	114.2
7-Oct	86.0	77.4	84.0	77.5	75.0	141.4	82.1	128.8	114.8
14-Oct	86.0	77.2	84.1	77.9	75.0	141.4	82.4	129.7	116.4
21-Oct	88.0	77.1	83.8	77.1	74.0	141.4	82.2	129.8	116.2
28-Oct	88.0	76.8	84.2	77.0	73.0	141.4	82.2	130.3	115.7
4-Nov	88.0	77.0	84.4	77.2	73.0	141.4	82.5	131.5	117.3
11-Nov	88.0	77.6	84.3	76.9	73.0	141.4	81.7	130.6	118.3
18-Nov	88.0	76.2	84.6	77.0	73.0	141.4	81.6	130.7	117.2
25-Nov	88.0	77.0	85.1	76.6	73.0	141.4	81.9	132.0	117.3
2-Dec	88.0	76.8	84.7	76.5	73.0	141.4	82.3	131.8	117.8
9-Dec	88.0	77.2	84.9	76.7	75.0	141.4	82.3	133.6	119.3
16-Dec	88.0	77.3	84.3	77.2	75.0	141.4	81.5	134.4	121.2
23-Dec	88.0	76.9	84.2	76.4	73.0	142.8	82.3	135.3	120.4
31-Dec	88.0	77.8	84.1	77.2	75.0	144.2	83.1	135.1	121.6

SEYCHELLES

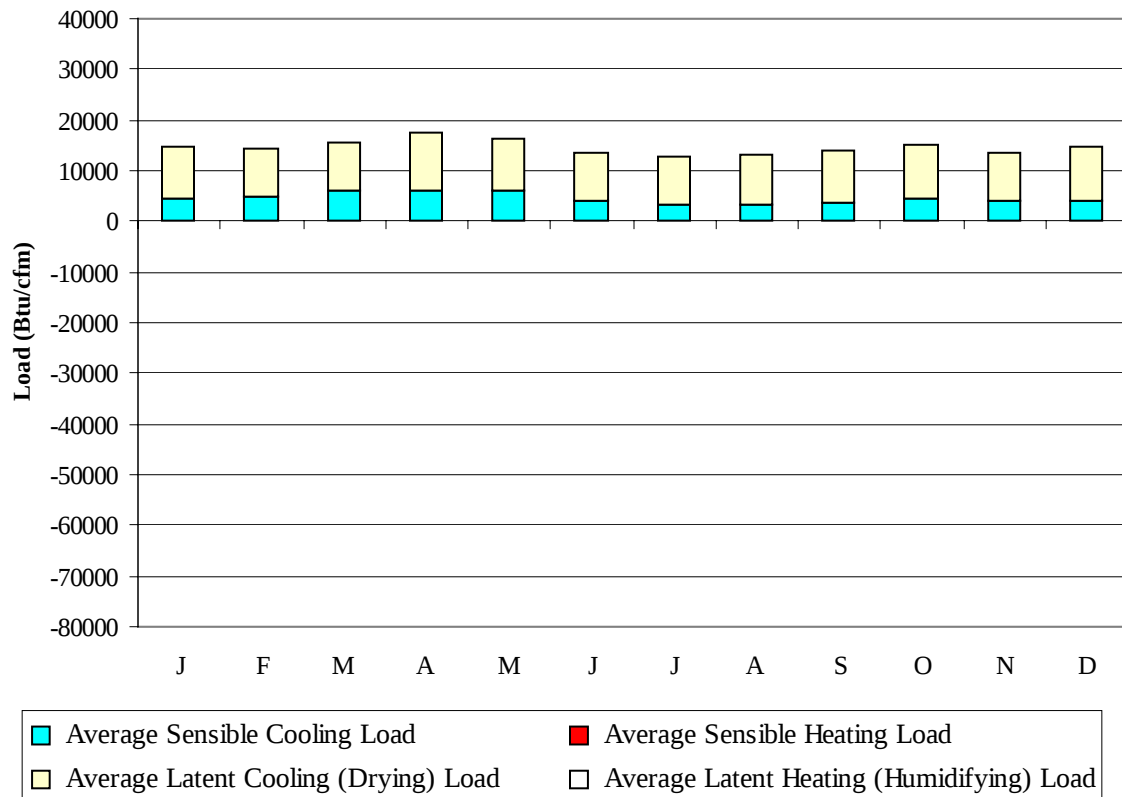
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	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	455	0
FEB	454	0
MAR	534	0
APR	531	0
MAY	533	0
JUN	455	0
JUL	428	0
AUG	428	0
SEP	440	0
OCT	471	0
NOV	442	0
DEC	450	0
ANN	5621	0

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	4322	-2	10225	0
FEB	4752	0	9438	0
MAR	5959	0	9591	0
APR	6112	0	11214	0
MAY	5901	0	10574	0
JUN	4135	0	9371	0
JUL	3195	0	9687	0
AUG	3136	0	10102	0
SEP	3740	-1	10294	0
OCT	4382	-10	10567	0
NOV	4181	0	9306	0
DEC	4171	0	10410	0
ANN	53986	-13	120779	0

Average Annual Solar Radiation – Nearest Available Site
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

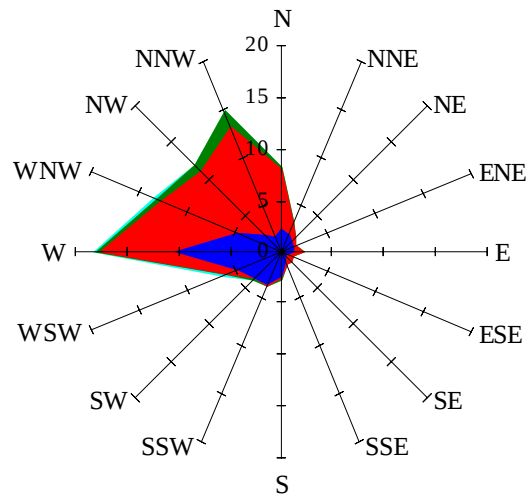


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

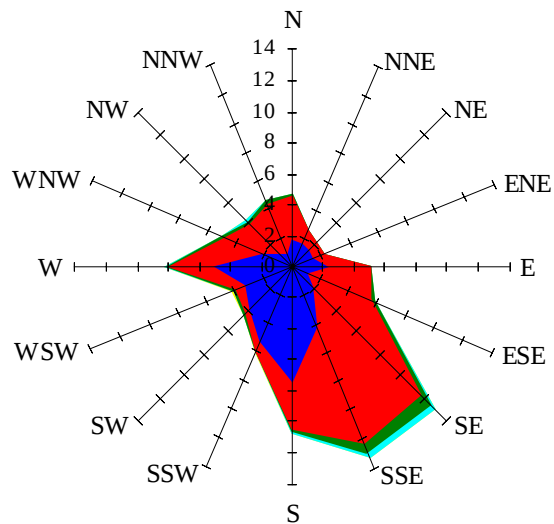
Labels of Percent Frequency on North Axis



Percent Calm = 5.02

Wind Summary - March, April, and May

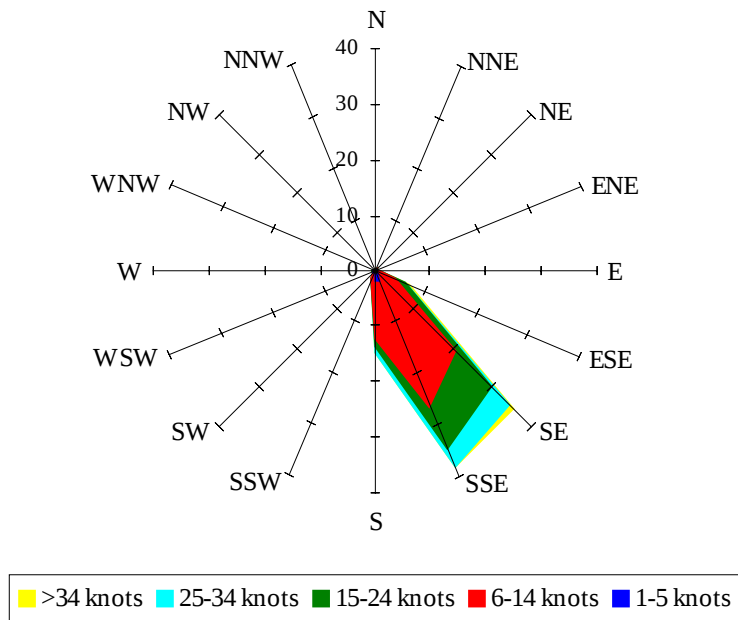
Labels of Percent Frequency on North Axis



Percent Calm = 5.11

Wind Summary - June, July, and August

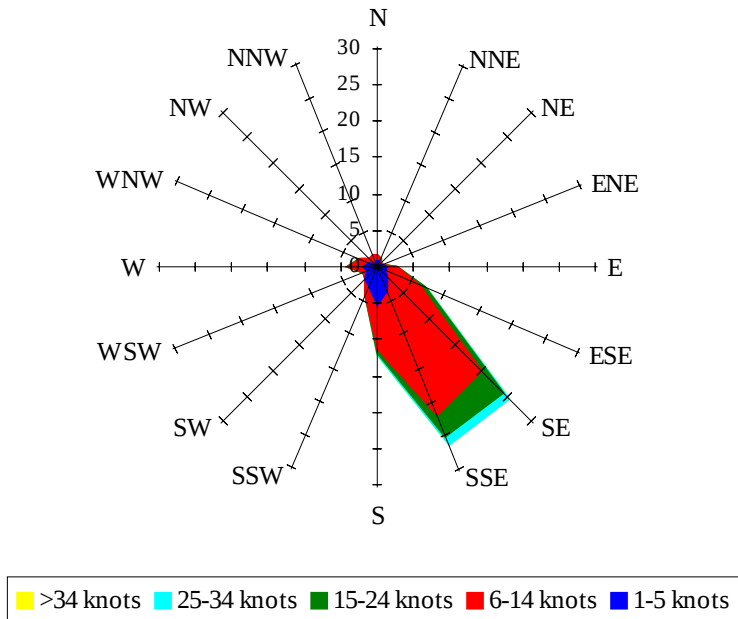
Labels of Percent Frequency on North Axis



Percent Calm = 0.22

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 2.75