

KOROR/PALAU ISLAND KA

Latitude = 7.33 N

WMO No. 914080

Longitude = 134.48 E

Elevation = 108 feet

Period of Record = 1973 to 1996

Average Pressure = 29.67 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	81	144	7.5	E
0.4% Occurrence	89	80	140	7.9	E
1.0% Occurrence	88	79	139	8.0	E
2.0% Occurrence	88	79	139	8.0	E
Mean Daily Range	7	-	-	-	-
97.5% Occurrence	76	75	130	5.9	NE
99.0% Occurrence	75	74	128	6.5	NE
99.6% Occurrence	75	74	128	6.5	NE
Median of Extreme Lows	73	73	122	7.3	NE
	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	85	88	174	9.8	W
0.4% Occurrence	81	86	147	7.5	E
1.0% Occurrence	81	86	147	7.5	E
2.0% Occurrence	80	85	144	7.1	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	181	86	1.19	9.2	ENE
0.4% Occurrence	157	86	1.04	6.2	E
1.0% Occurrence	152	84	1.00	6.2	E
2.0% Occurrence	152	84	1.00	6.2	E
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		1	4353	6211	6240

Other Site Data

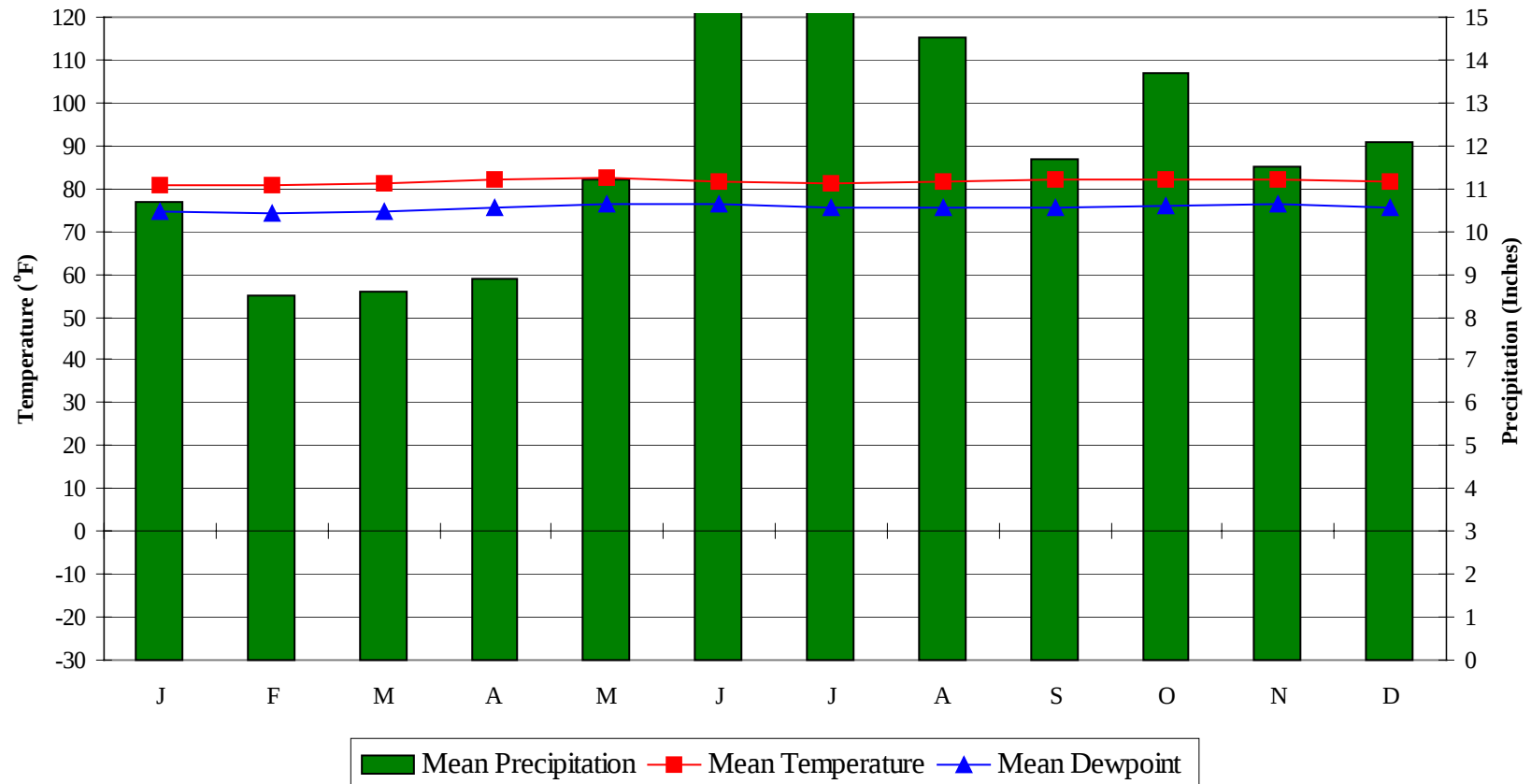
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
10	N/A	N/A	13.3 + 5.3
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
84.1	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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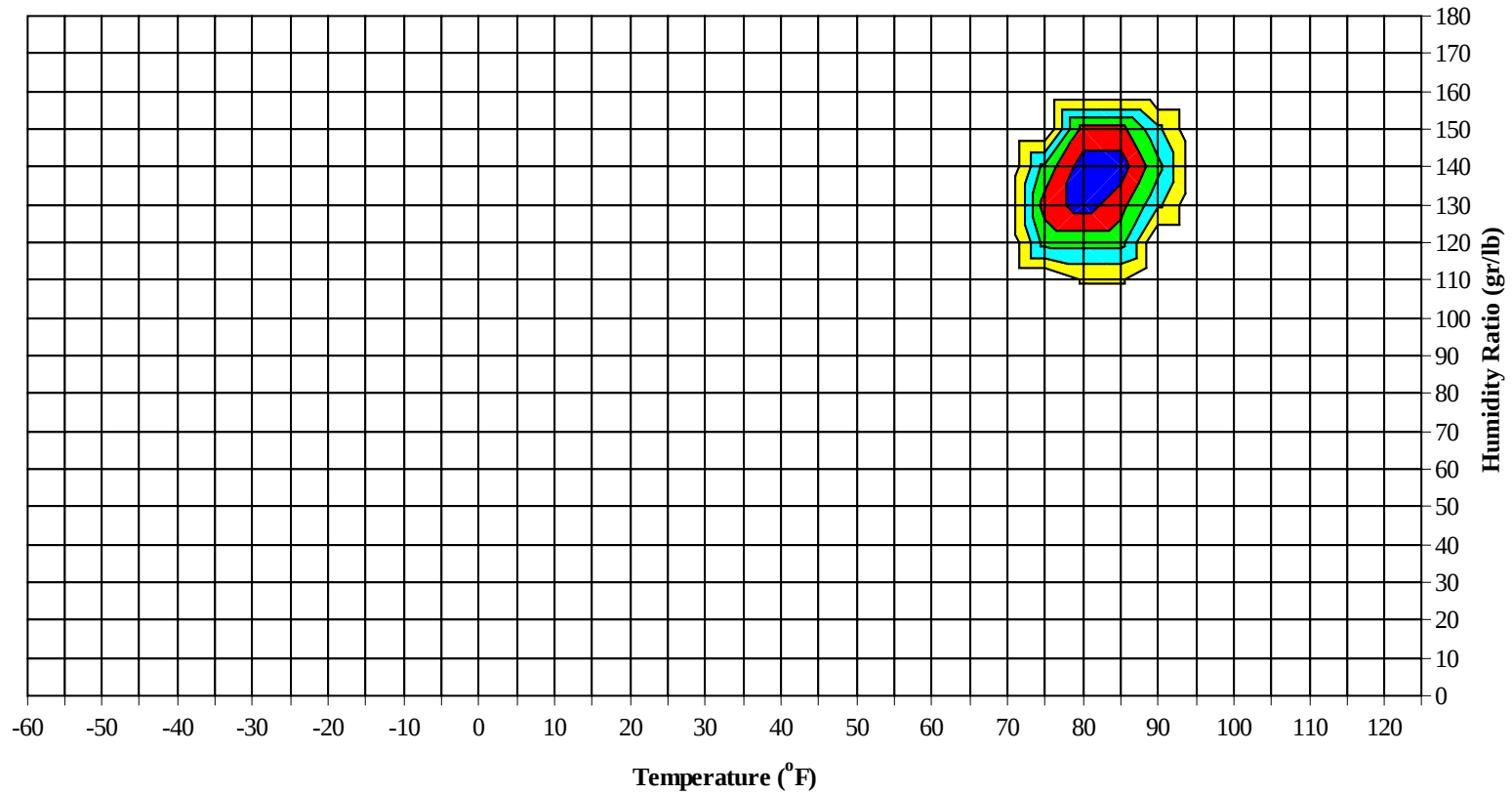
Average Annual Climate



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Long Term Psychrometric Summary

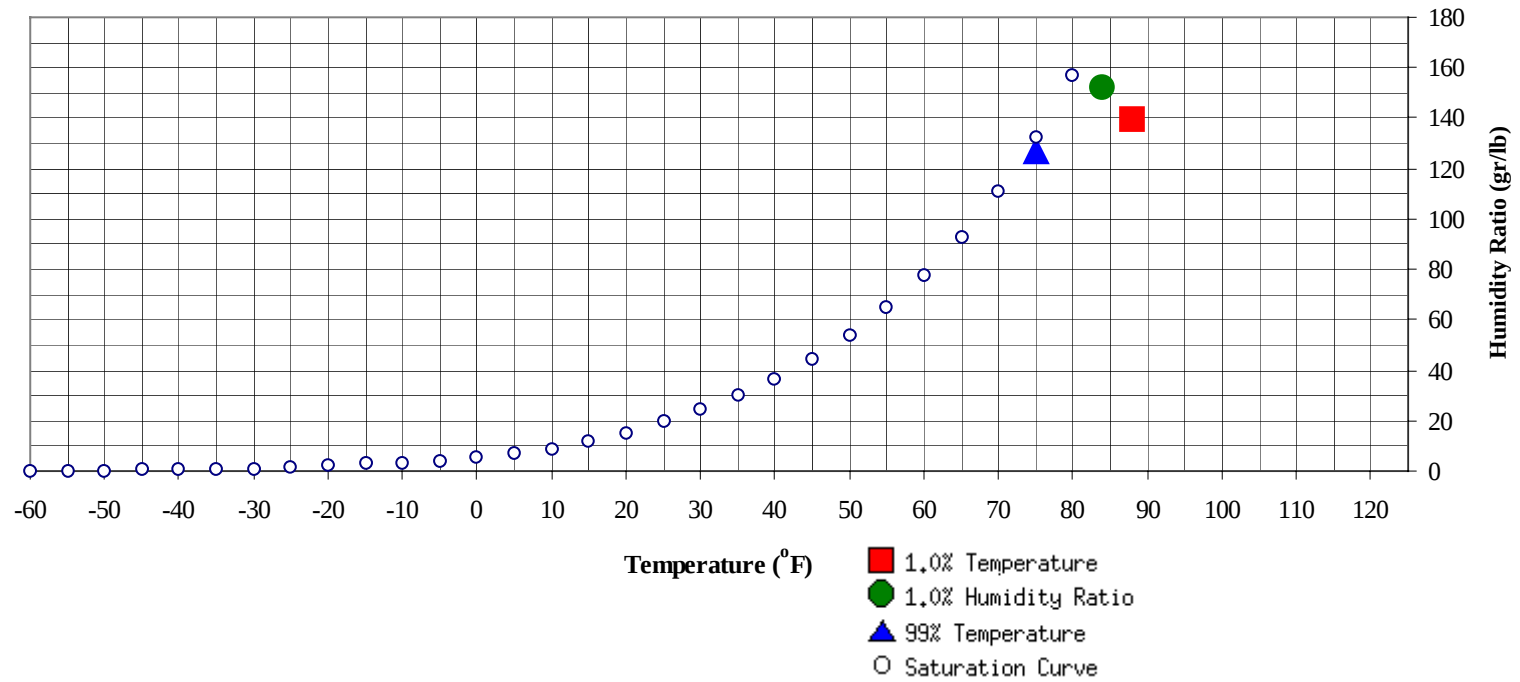


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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Psychrometric Summary of Peak Design Values



	(°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	75	126.6	37.8		151.9	84	80.3	79	44.0

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	88	139.7	79.6	43.1

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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		
100 / 104															
95 / 99															
90 / 94															
85 / 89	0	99	2	100	78.1	0	83	3	86	77.7	0	133	5	138	77.9
80 / 84	59	125	118	303	76.8	47	119	91	257	76.5	68	101	123	293	76.7
75 / 79	186	25	127	337	75.5	174	21	129	324	75.3	178	14	119	311	75.4
70 / 74	3	0	1	4	72.3	3	1	1	4	72.7	1	0	1	2	72.4
65 / 69							0	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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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		
100 / 104															
95 / 99						0	0	0	0	77.8	0			0	80.0
90 / 94	0	1	0	1	78.4	0	3	0	3	81.1	0	1	0	1	81.5
85 / 89	6	155	10	171	78.5	12	161	12	185	79.3	7	122	8	137	79.4
80 / 84	105	70	155	330	77.3	117	69	170	357	77.9	111	90	148	349	77.8
75 / 79	129	14	75	218	76.1	119	15	66	200	76.7	121	27	84	232	76.5
70 / 74	0	0	0	0	72.7	0		0	0	73.0	1	0	0	1	73.2
65 / 69													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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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		
100 / 104			0	0	87.0										
95 / 99		0	0	0	83.5										
90 / 94		0	0	0	79.5	0	0	0	0	78.8		1	0	1	80.6
85 / 89	3	121	7	130	78.9	3	125	7	135	78.9	5	129	6	141	78.8
80 / 84	115	97	143	356	77.4	145	97	165	406	77.3	132	88	163	383	77.3
75 / 79	126	29	96	251	76.1	99	25	75	199	76.1	102	21	70	193	76.1
70 / 74	4	1	2	7	72.9	1	1	1	3	73.0	1	1	0	2	72.9
65 / 69															

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 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		
100 / 104															
95 / 99															
90 / 94		1		1	79.3		2		2	80.9	0	2		2	80.9
85 / 89	7	136	7	150	79.1	5	145	6	155	79.3	1	127	5	133	78.8
80 / 84	133	89	163	386	77.7	113	79	162	354	77.9	93	99	147	339	77.4
75 / 79	108	20	77	206	76.4	122	15	73	209	76.7	153	19	96	268	76.1
70 / 74	0	1	0	1	71.8	0	0	0	0	72.7	0	1	1	2	72.7
65 / 69															

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 = 1973 to 1996

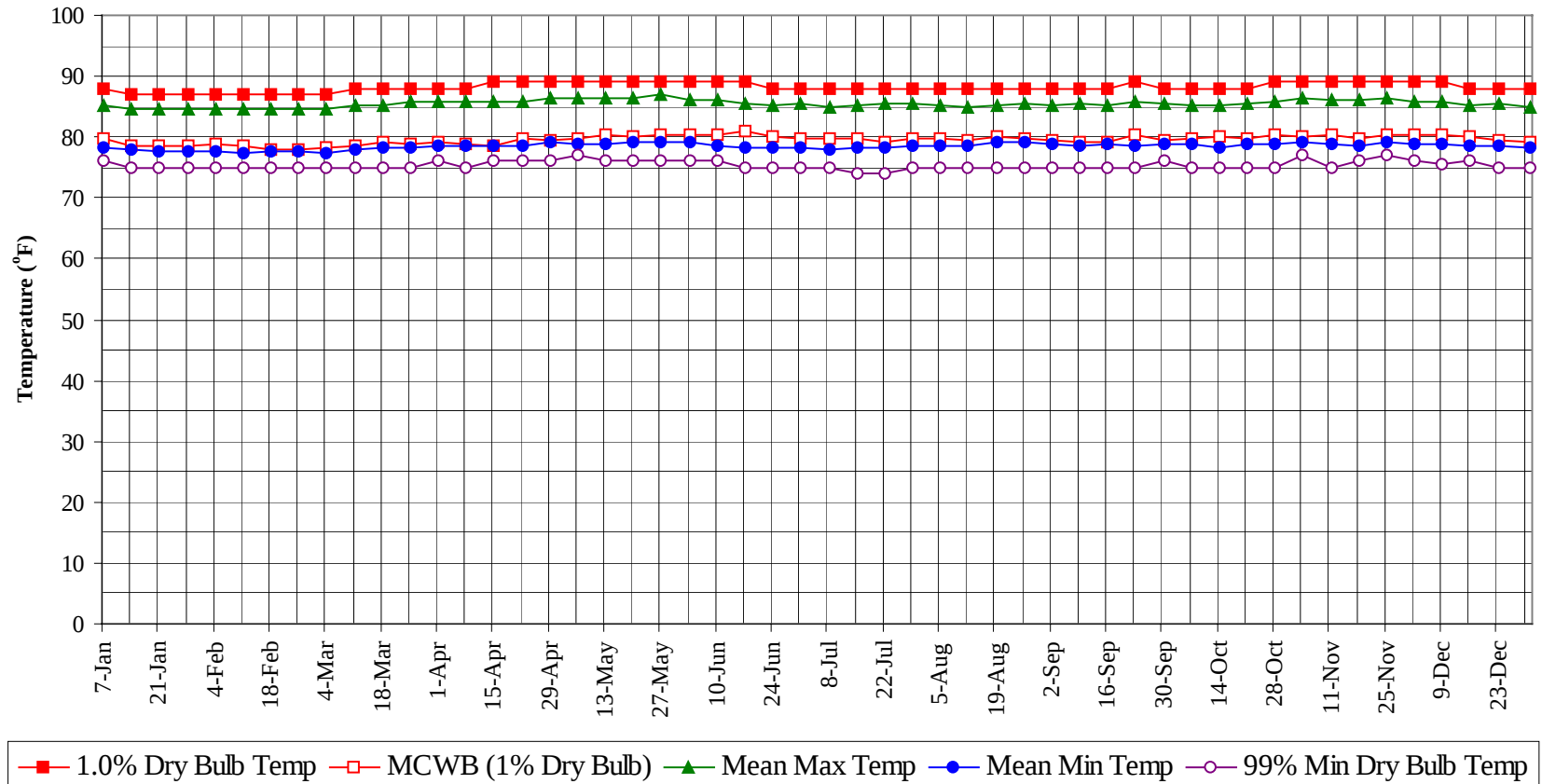
[illegible]

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.

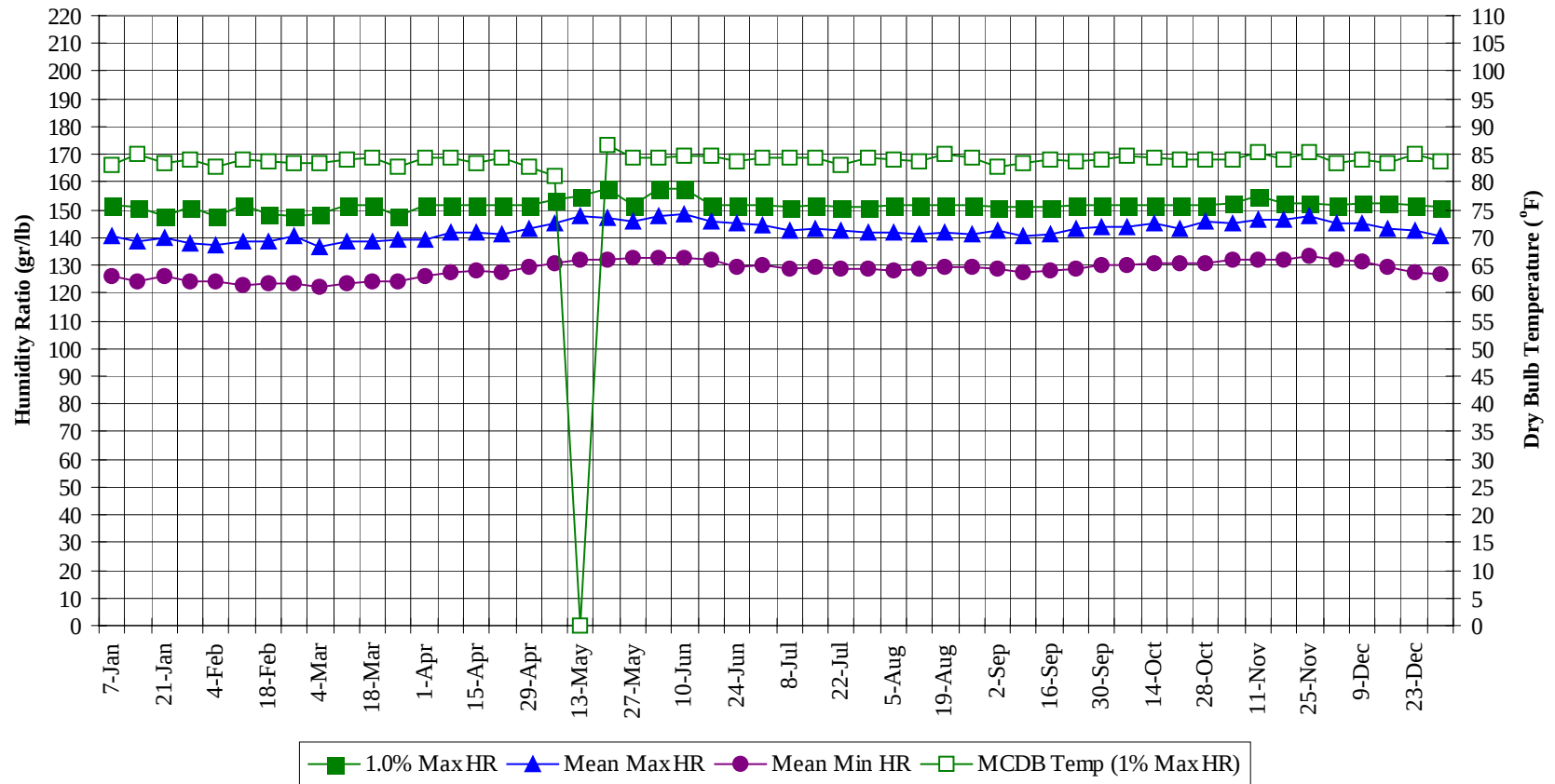
KOROR/PALAU ISLAND KA

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

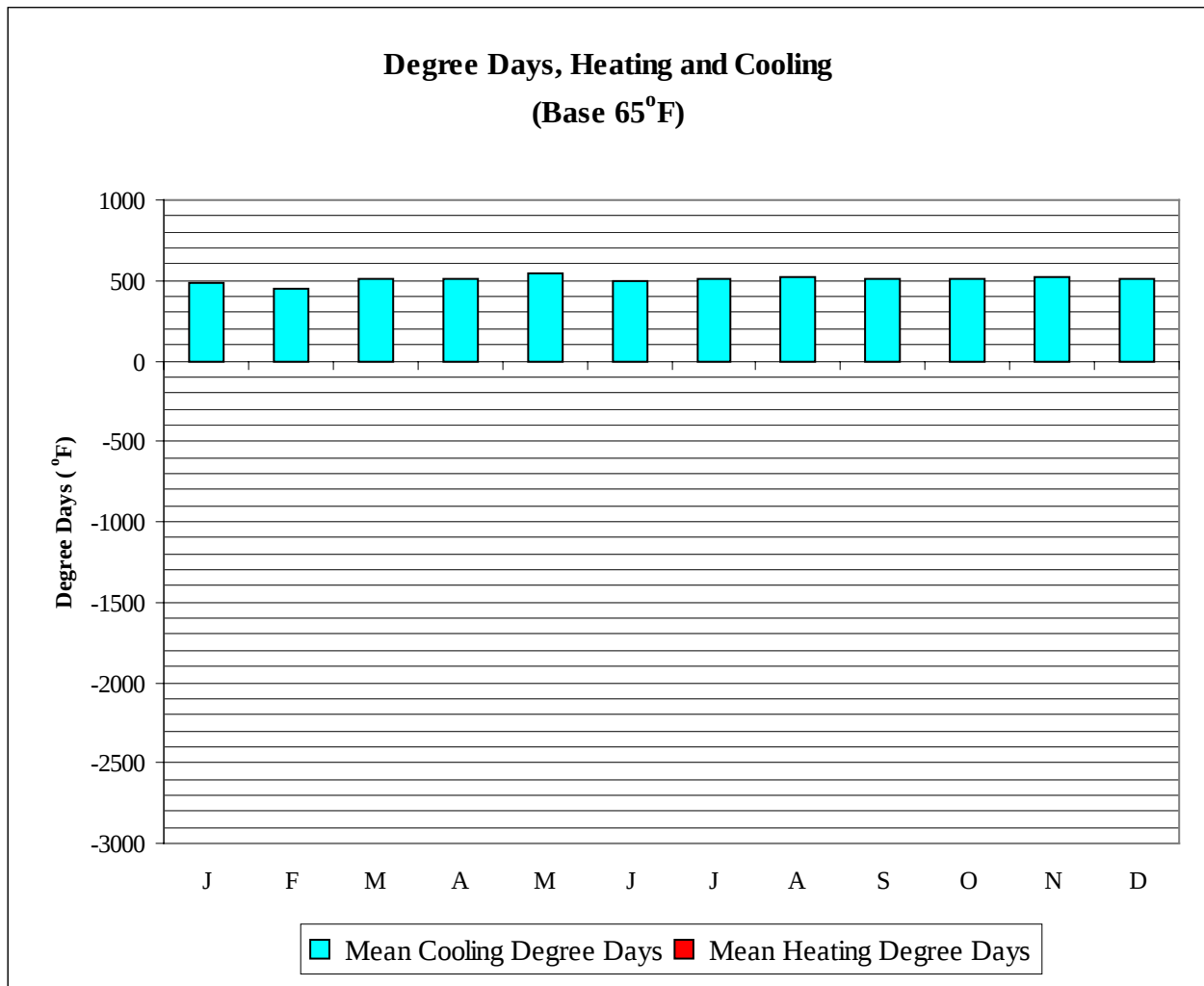


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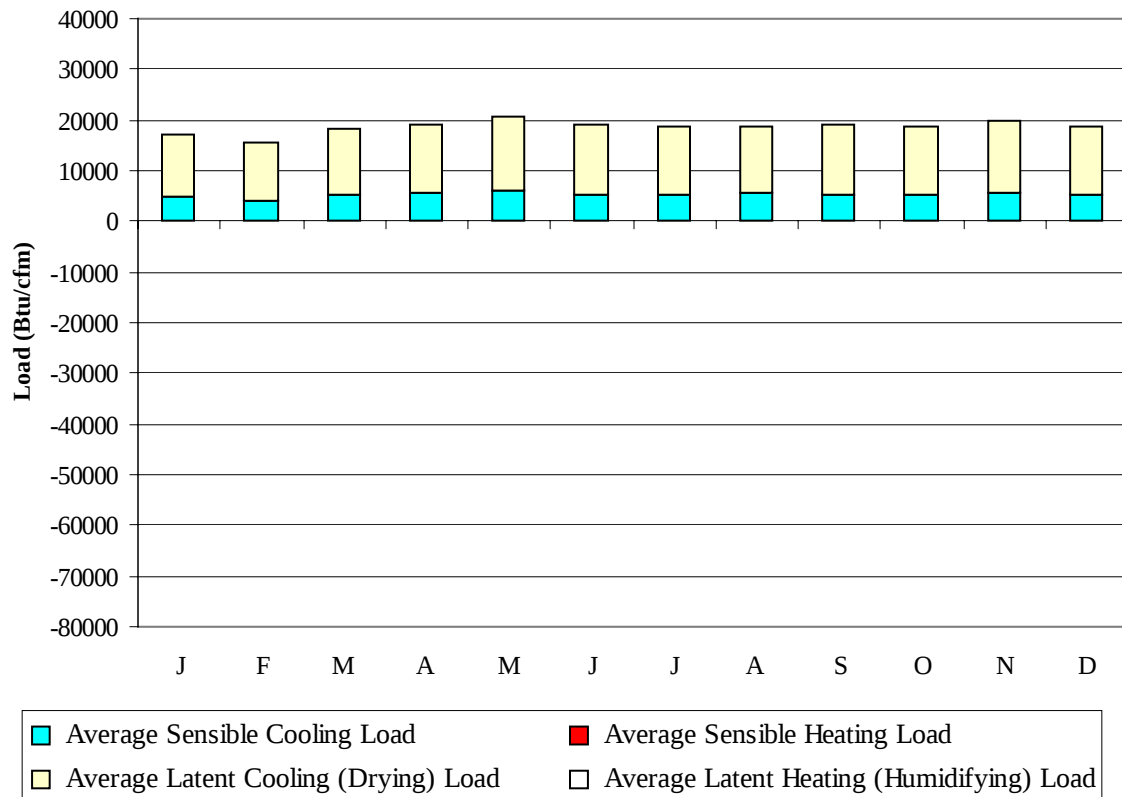
Long Term Dry Bulb Temperature and Humidity Summary

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	88.0	79.7	85.3	78.3	76.0	151.9	82.9	140.6	126.4
14-Jan	87.0	78.7	84.5	77.9	75.0	151.2	85.1	138.6	124.3
21-Jan	87.0	78.7	84.5	77.7	75.0	147.7	83.4	140.2	126.2
28-Jan	87.0	78.6	84.7	77.5	75.0	151.2	84.2	138.1	123.8
4-Feb	87.0	78.8	84.5	77.6	75.0	147.7	82.7	137.6	124.1
11-Feb	87.0	78.7	84.6	77.3	75.0	151.9	84.2	138.4	122.7
18-Feb	87.0	78.0	84.5	77.8	75.0	148.4	83.8	138.4	123.4
25-Feb	87.0	77.9	84.6	77.6	75.0	147.7	83.2	140.2	123.6
4-Mar	87.0	78.3	84.6	77.4	75.0	148.4	83.4	136.8	122.1
11-Mar	88.0	78.7	85.3	77.9	75.0	151.9	84.1	138.6	123.7
18-Mar	88.0	79.1	85.2	78.1	75.0	151.9	84.3	138.6	124.1
25-Mar	88.0	78.8	85.8	78.3	75.0	147.7	82.9	139.0	123.9
1-Apr	88.0	79.1	85.7	78.5	76.0	151.9	84.3	139.4	126.4
8-Apr	88.0	78.8	85.7	78.7	75.0	151.9	84.4	141.6	127.2
15-Apr	89.0	78.7	85.7	78.7	76.0	151.9	83.3	141.8	128.3
22-Apr	89.0	79.8	85.8	78.4	76.0	151.9	84.5	141.2	127.2
29-Apr	89.0	79.5	86.5	79.2	76.0	151.9	82.8	143.3	129.5
6-May	89.0	79.7	86.4	79.0	77.0	154.0	81.0	144.8	130.6
13-May	89.0	80.3	86.4	78.9	76.0	154.7	.	147.6	132.0
20-May	89.0	80.1	86.4	79.1	76.0	157.5	86.6	147.0	132.2
27-May	89.0	80.2	86.9	79.2	76.0	151.9	84.2	146.1	132.4
3-Jun	89.0	80.5	86.1	79.2	76.0	157.5	84.5	147.7	132.6
10-Jun	89.0	80.5	86.2	78.7	76.0	157.5	84.6	148.4	132.9
17-Jun	89.0	80.8	85.6	78.3	75.0	151.9	84.6	145.7	132.2
24-Jun	88.0	80.2	85.3	78.2	75.0	151.9	83.7	145.2	129.6
1-Jul	88.0	79.8	85.4	78.2	75.0	151.9	84.5	144.3	129.9
8-Jul	88.0	79.7	84.8	78.0	75.0	151.2	84.3	142.4	129.0
15-Jul	88.0	79.7	85.1	78.2	74.0	151.9	84.3	143.3	129.4
22-Jul	88.0	79.3	85.5	78.2	74.0	151.2	83.0	142.6	128.9
29-Jul	88.0	79.8	85.5	78.6	75.0	151.2	84.4	141.6	128.9
5-Aug	88.0	79.8	85.1	78.4	75.0	151.9	84.2	142.0	128.2
12-Aug	88.0	79.5	84.9	78.5	75.0	151.9	83.7	140.9	128.5
19-Aug	88.0	80.2	85.2	79.0	75.0	151.9	85.0	142.1	129.4
26-Aug	88.0	79.6	85.4	79.3	75.0	151.9	84.2	141.4	129.1
2-Sep	88.0	79.5	85.2	78.8	75.0	151.2	82.8	142.2	128.6
9-Sep	88.0	79.2	85.4	78.4	75.0	151.2	83.3	140.6	127.3
16-Sep	88.0	79.2	85.3	79.0	75.0	151.2	84.1	140.9	128.0
23-Sep	89.0	80.3	85.9	78.6	75.0	151.9	83.6	143.0	129.0
30-Sep	88.0	79.6	85.6	79.0	76.0	151.9	84.0	143.6	130.1
7-Oct	88.0	79.8	85.3	78.7	75.0	151.9	84.7	144.1	130.0
14-Oct	88.0	80.1	85.2	78.4	75.0	151.9	84.5	145.4	130.4
21-Oct	88.0	79.8	85.4	79.0	75.0	151.9	84.1	143.5	130.7
28-Oct	89.0	80.3	85.7	78.9	75.0	151.9	83.9	145.5	130.9
4-Nov	89.0	80.0	86.4	79.2	77.0	152.6	84.0	145.4	132.1
11-Nov	89.0	80.2	86.1	78.8	75.0	154.7	85.3	146.3	131.7
18-Nov	89.0	79.8	86.2	78.7	76.0	152.6	84.1	146.1	132.3
25-Nov	89.0	80.5	86.3	79.2	77.0	152.6	85.2	147.7	133.3
2-Dec	89.0	80.4	85.8	78.9	76.0	151.9	83.4	145.3	131.8
9-Dec	89.0	80.4	85.8	78.8	75.5	152.6	84.1	145.2	131.2
16-Dec	88.0	80.0	85.2	78.4	76.0	152.6	83.4	143.1	129.6
23-Dec	88.0	79.5	85.4	78.5	75.0	151.9	85.0	142.3	127.3
31-Dec	88.0	79.1	84.9	78.3	75.0	151.2	83.7	140.4	127.0



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	486	0
FEB	444	0
MAR	511	0
APR	514	0
MAY	540	0
JUN	502	0
JUL	506	0
AUG	517	0
SEP	504	0
OCT	505	0
NOV	515	0
DEC	513	0
ANN	6056	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	4744	0	12541	0
FEB	4235	0	11265	0
MAR	5221	0	12893	0
APR	5567	0	13373	0
MAY	6029	0	14649	0
JUN	5295	0	13890	0
JUL	5196	0	13358	0
AUG	5464	0	13396	0
SEP	5392	0	13713	0
OCT	5396	0	13423	0
NOV	5612	0	14153	0
DEC	5344	0	13314	0
ANN	63495	0	159968	0

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

No Solar Radiation
Data Available

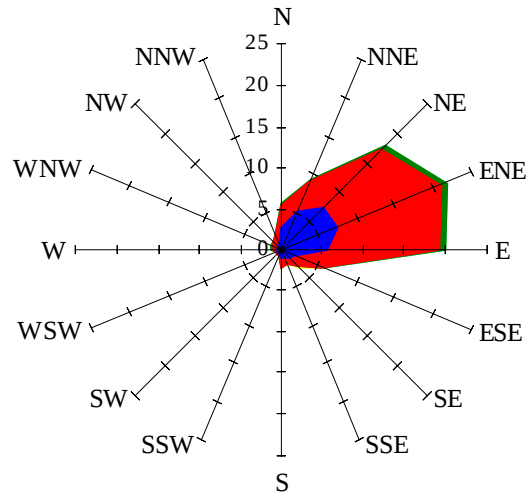


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

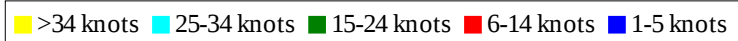
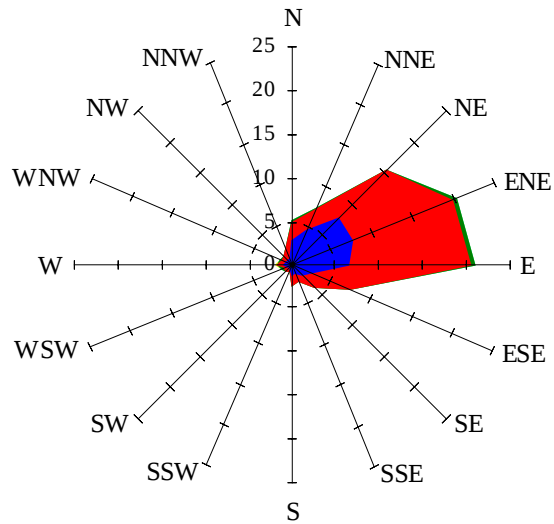
Labels of Percent Frequency on North Axis



Percent Calm = 4.89

Wind Summary - March, April, and May

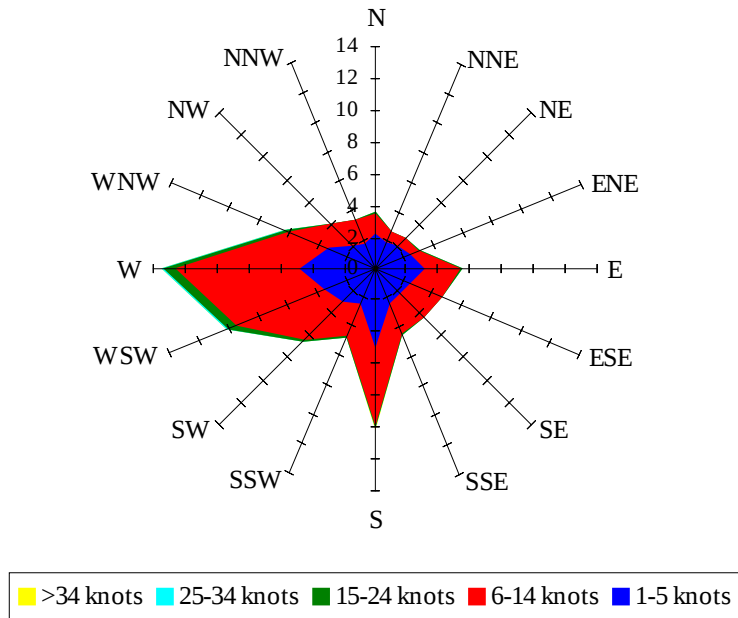
Labels of Percent Frequency on North Axis



Percent Calm = 6.93

Wind Summary - June, July, and August

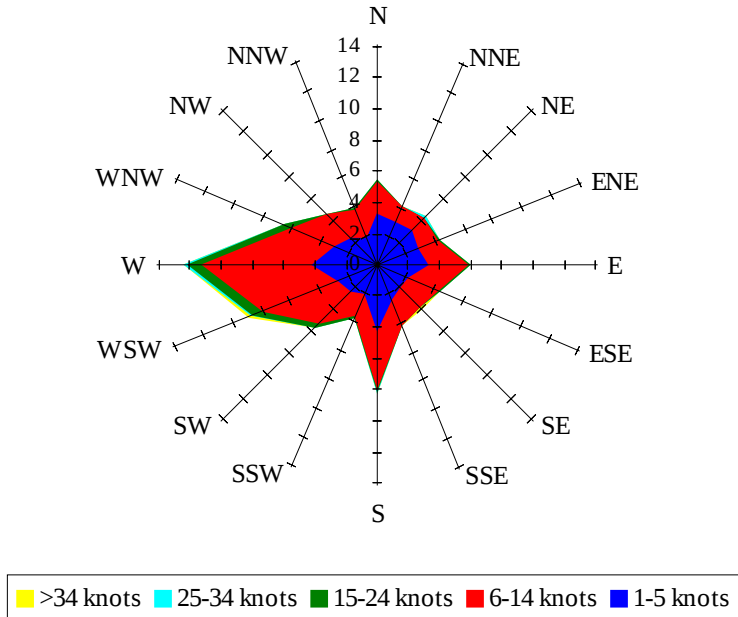
Labels of Percent Frequency on North Axis



Percent Calm = 11.74

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 11.26