

KEY WEST NAS FL

Latitude = 24.57 N

WMO No. 722015

Longitude = 81.68 W

Elevation = 7 feet

Period of Record = 1973 to 1996

Average Pressure = 29.98 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	92	80	132	6.5	SE
0.4% Occurrence	90	79	134	8.7	ESE
1.0% Occurrence	89	78	129	8.5	ESE
2.0% Occurrence	89	78	129	8.5	ESE
Mean Daily Range	9	-	-	-	-
97.5% Occurrence	60	54	52	9.9	NNE
99.0% Occurrence	57	51	46	10.2	NNE
99.6% Occurrence	54	48	40	10.5	NNE
Median of Extreme Lows	50	45	34	10.3	N
	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	155	9.1	ESE
0.4% Occurrence	81	87	149	8.4	ESE
1.0% Occurrence	80	87	143	8.5	ESE
2.0% Occurrence	79	87	136	8.6	ESE
	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	183	90	1.21	4.0	NW
0.4% Occurrence	151	85	1.00	7.7	SE
1.0% Occurrence	146	83	0.97	8.7	ESE
2.0% Occurrence	141	84	0.94	7.5	ESE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		0	3971	4281	6714

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	150	13.3 + 3.5
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 (#)
80.0	0	0	0

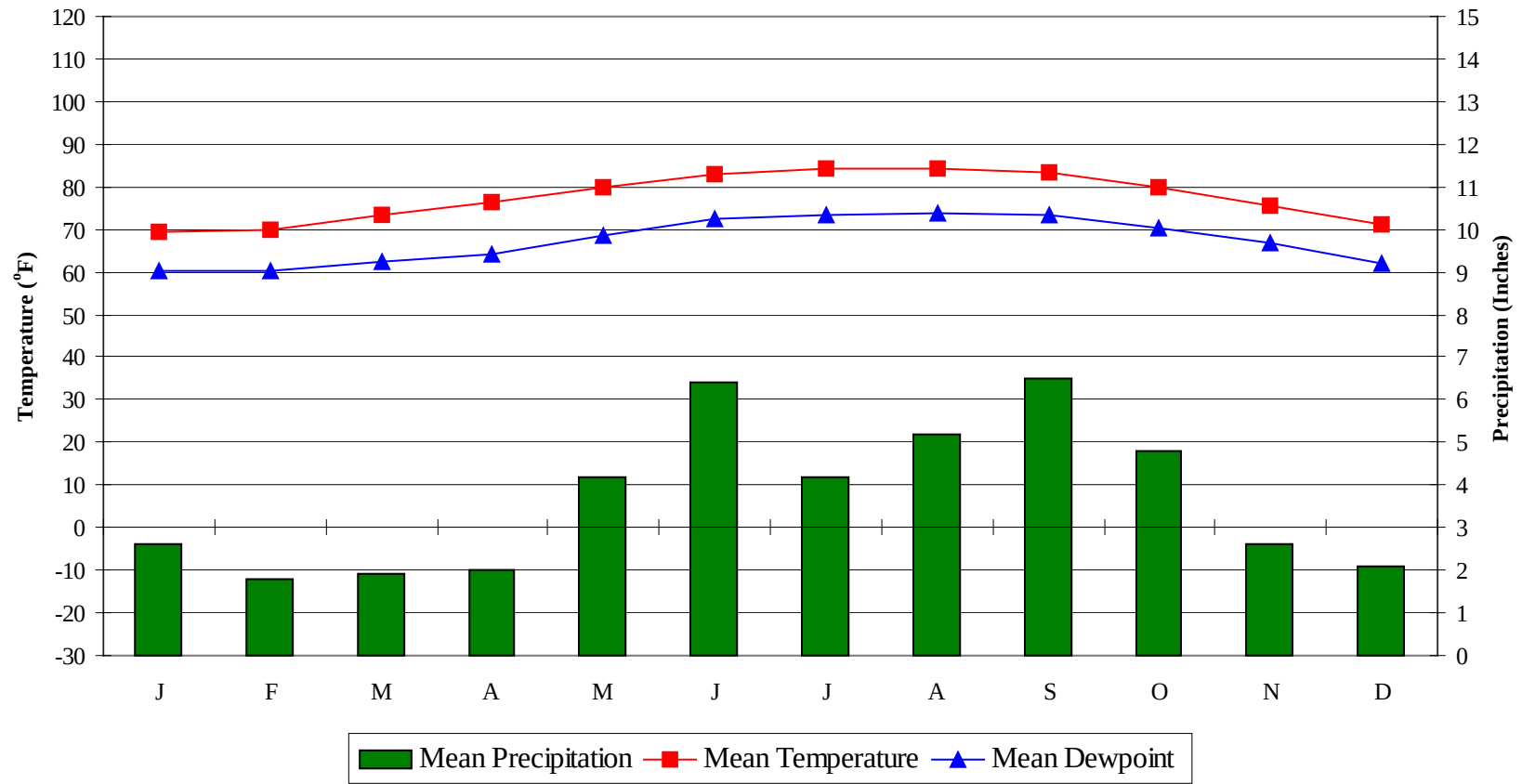
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

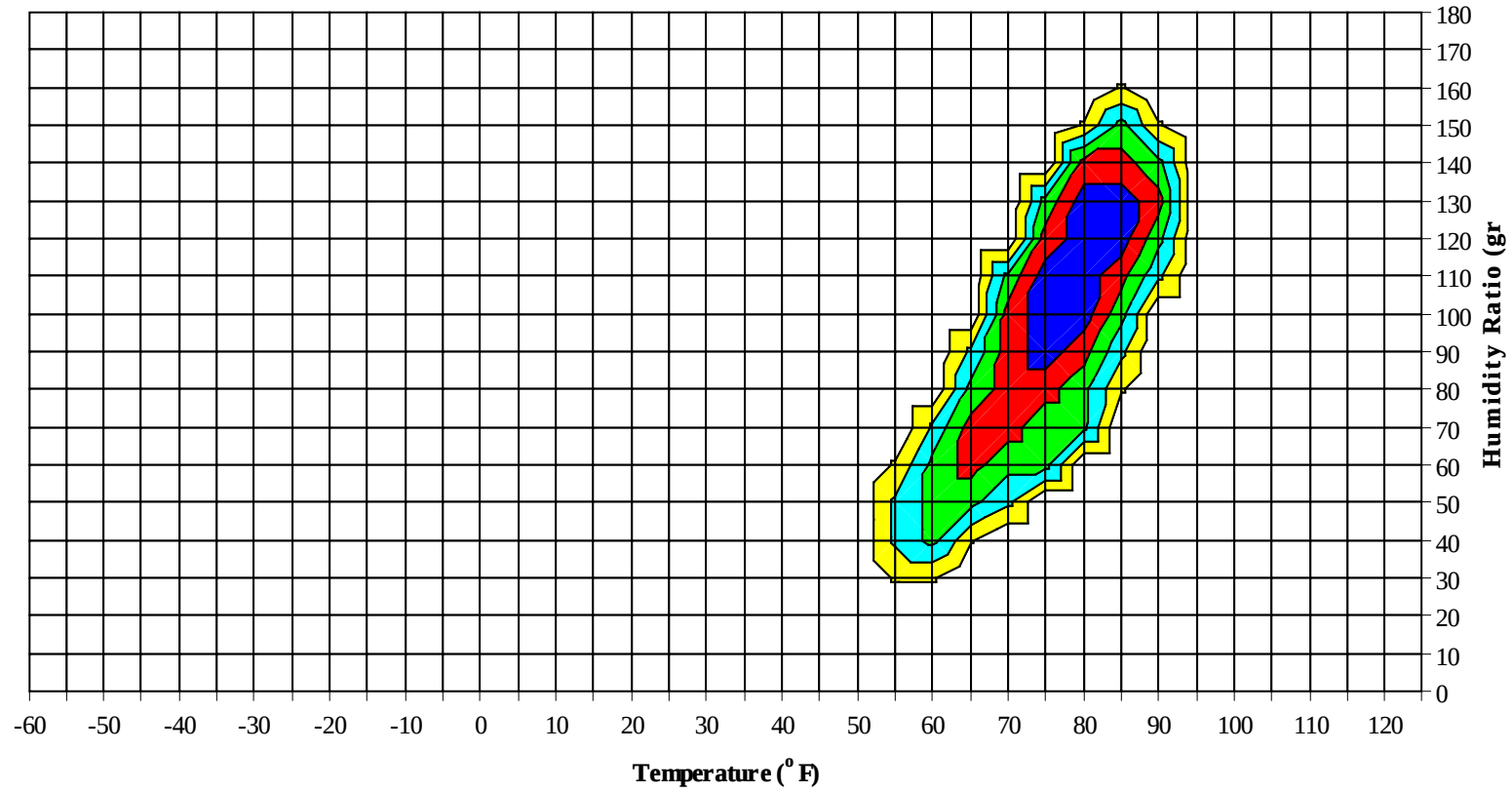


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WMO No. 722015

Long Term Psychrometric Summary



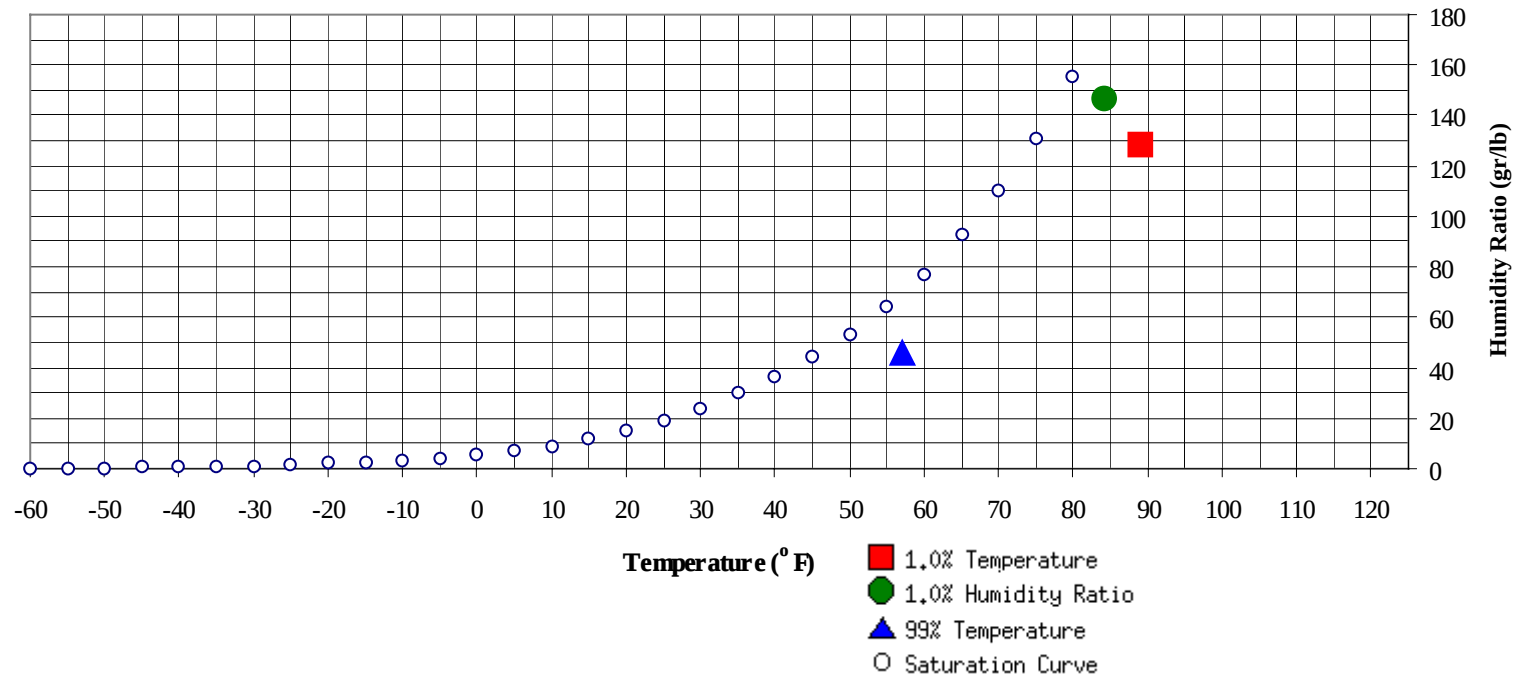
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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WMO No. 722015

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)
	57	46	20.8		146.3	84.2	79.6	78.1	43.2

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	89	128.8	78.3	41.6

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WMO No. 722015

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															
85 / 89							0		0	77.3		0		0	74.0
80 / 84	0	29	1	30	72.7	0	39	3	42	72.7	1	79	12	91	72.8
75 / 79	28	82	52	162	70.4	28	68	50	146	70.0	66	92	91	250	69.9
70 / 74	79	49	77	206	67.1	72	48	67	187	66.4	96	45	84	226	65.9
65 / 69	63	46	58	167	61.8	59	39	54	153	61.2	55	21	42	118	60.9
60 / 64	44	25	39	108	56.2	40	20	34	95	56.4	23	7	14	43	55.7
55 / 59	27	11	17	55	51.7	20	7	12	39	51.6	6	2	4	12	51.4
50 / 54	7	2	3	13	46.9	6	2	3	10	46.6	1	0	1	2	46.4
45 / 49	1	0	1	2	41.8	0	0	0	1	44.2	0		0	0	43.2
40 / 44	0			0	37.9										

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.

KEY WEST NAS

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WMO No. 722015

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															
90 / 94							0		0	77.0		6	0	6	79.5
85 / 89		11	1	11	75.1	1	71	10	82	76.3	10	174	49	233	77.1
80 / 84	7	125	31	163	72.3	69	148	113	330	73.6	174	50	164	389	75.3
75 / 79	113	77	126	316	69.6	143	24	112	279	70.5	53	8	25	87	73.0
70 / 74	91	21	68	179	65.2	36	4	12	52	66.8	3	1	2	5	69.2
65 / 69	26	5	13	44	60.2	1	0	1	2	59.0	0			0	62.0
60 / 64	4	1	2	6	55.3		0		0	63.0					
55 / 59	0	0	0	1	49.1										
50 / 54	0			0	48.0										
45 / 49															
40 / 44															

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.

KEY WEST NAS

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WMO No. 722015

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	89.0		0		0	80.0
90 / 94		20	1	21	79.2	0	27	1	28	79.1		12	0	12	80.3
85 / 89	23	194	82	299	77.4	23	182	80	285	77.6	12	172	46	230	77.6
80 / 84	203	24	155	382	75.7	197	30	155	381	76.0	177	42	169	388	75.8
75 / 79	23	7	10	41	73.9	27	7	13	48	74.3	49	11	26	87	73.7
70 / 74	0	1	0	1	71.1	1	0	0	1	71.6	1	1	1	3	70.7
65 / 69															
60 / 64															
55 / 59															
50 / 54															
45 / 49															
40 / 44															

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.

KEY WEST NAS

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WMO No. 722015

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		1		1	80.5										
85 / 89	2	80	7	88	76.9	0	9		9	76.2		1	0	1	76.9
80 / 84	68	118	111	297	74.7	9	108	25	142	74.1	1	45	2	49	73.5
75 / 79	143	43	112	297	71.8	107	74	123	305	71.6	39	89	62	190	70.6
70 / 74	34	5	17	56	67.1	83	32	69	185	67.0	94	56	96	245	67.1
65 / 69	3	1	1	5	60.3	32	12	20	64	61.2	66	33	54	152	61.5
60 / 64	0		0	0	56.0	9	2	4	15	56.5	29	15	24	69	56.3
55 / 59						0	0		0	51.1	15	6	8	30	51.3
50 / 54						0			0	47.0	3	2	2	7	47.1
45 / 49											1	0	0	2	42.4
40 / 44											0			0	41.0

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.

KEY WEST NAS FL WMO No. 722015
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1973 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		0		0	84.5
90 / 94	0	66	2	68	79.4
85 / 89	70	892	275	1237	77.3
80 / 84	904	837	939	2680	74.8
75 / 79	819	584	803	2207	71.0
70 / 74	591	263	495	1349	66.5
65 / 69	306	157	244	707	61.3
60 / 64	149	70	118	338	56.2
55 / 59	70	27	41	137	51.5
50 / 54	17	6	9	32	46.8
45 / 49	3	1	1	5	42.4
40 / 44	0			0	38.3

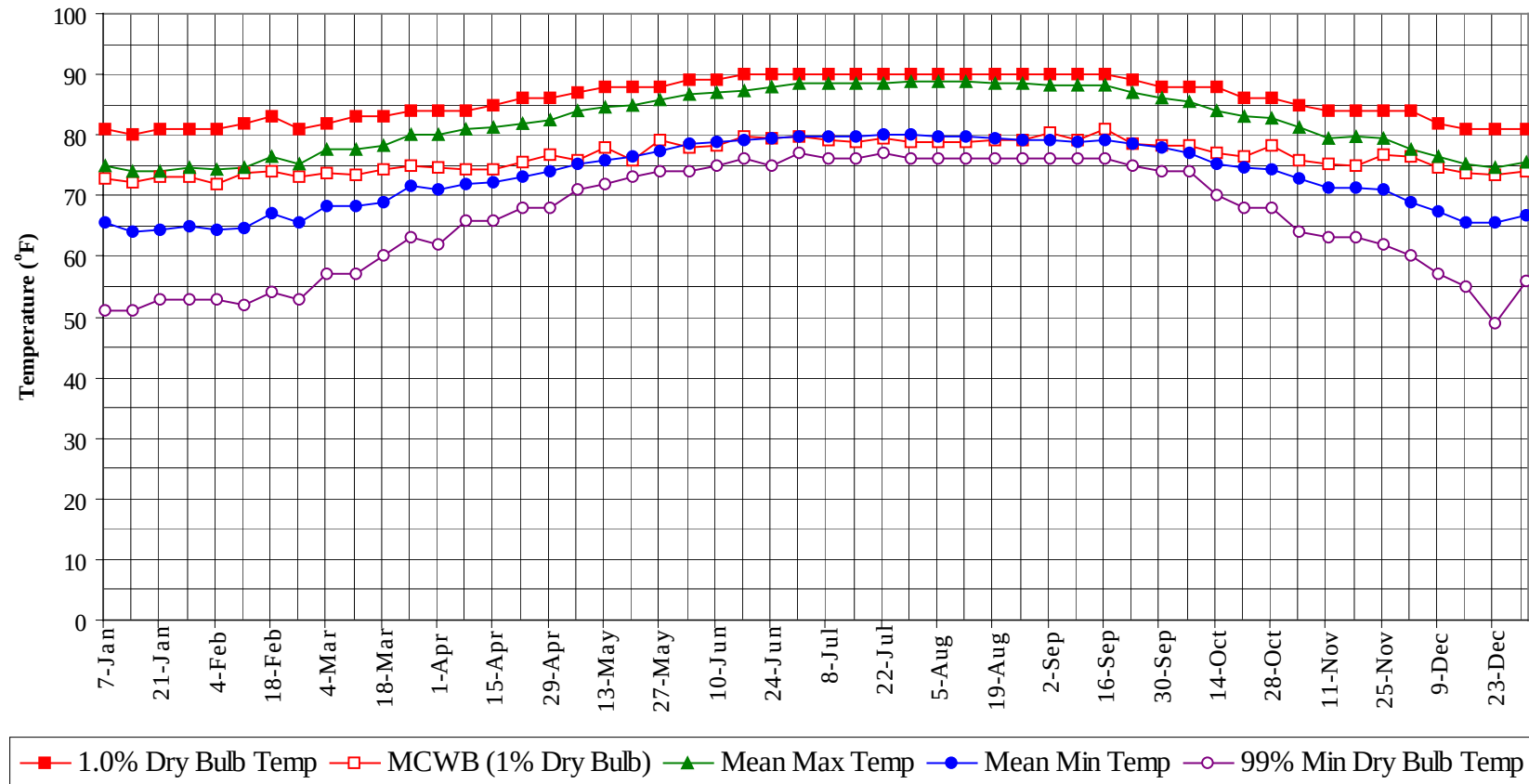
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

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WMO No. 722015

Annual Summary of Temperatures

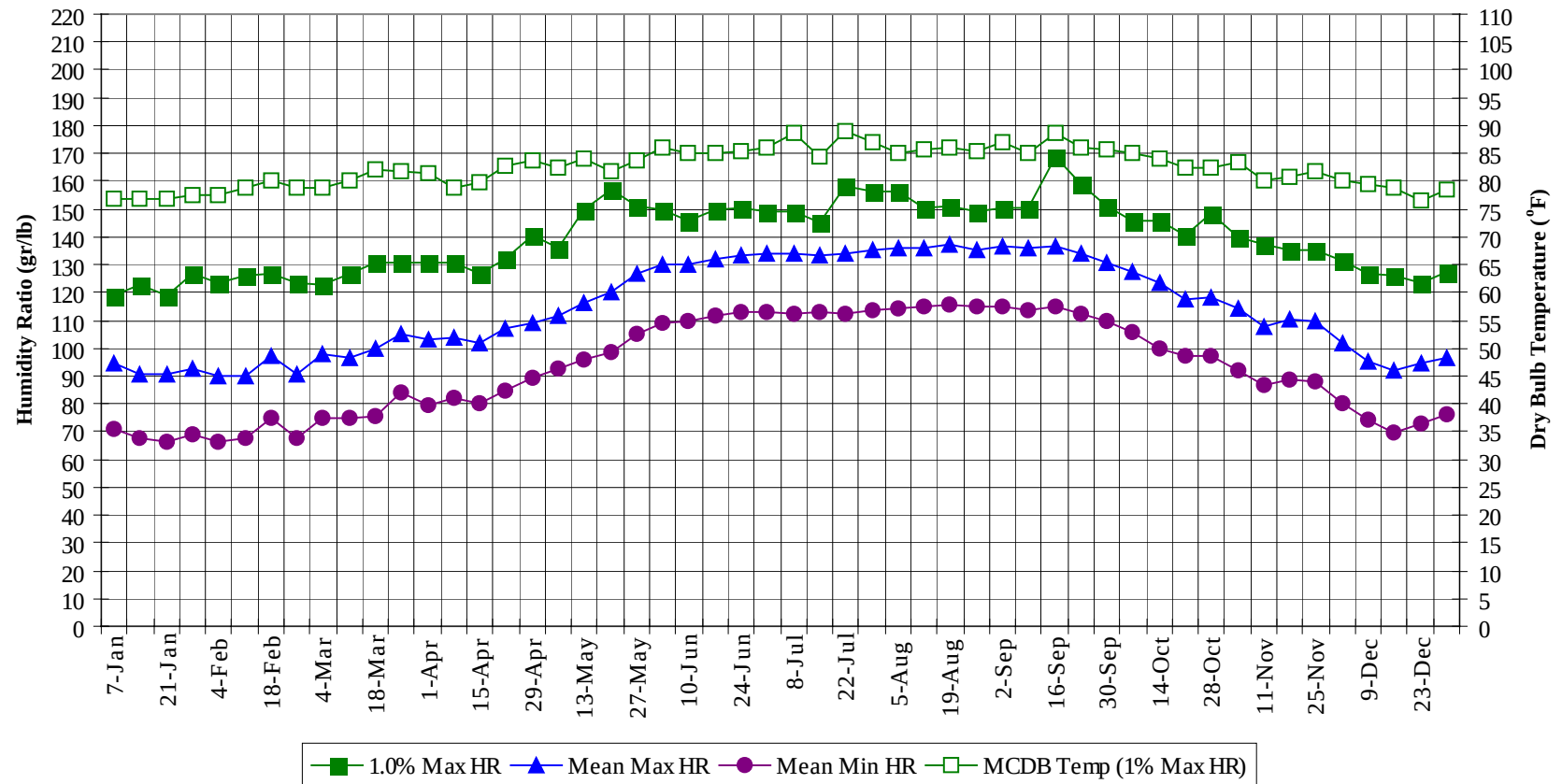


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WMO No. 722015

Long Term Humidity and Dry Bulb Temperature Summary



KEY WEST NAS**FL****WMO No. 722015****Long Term Dry Bulb Temperature and Humidity Summary**

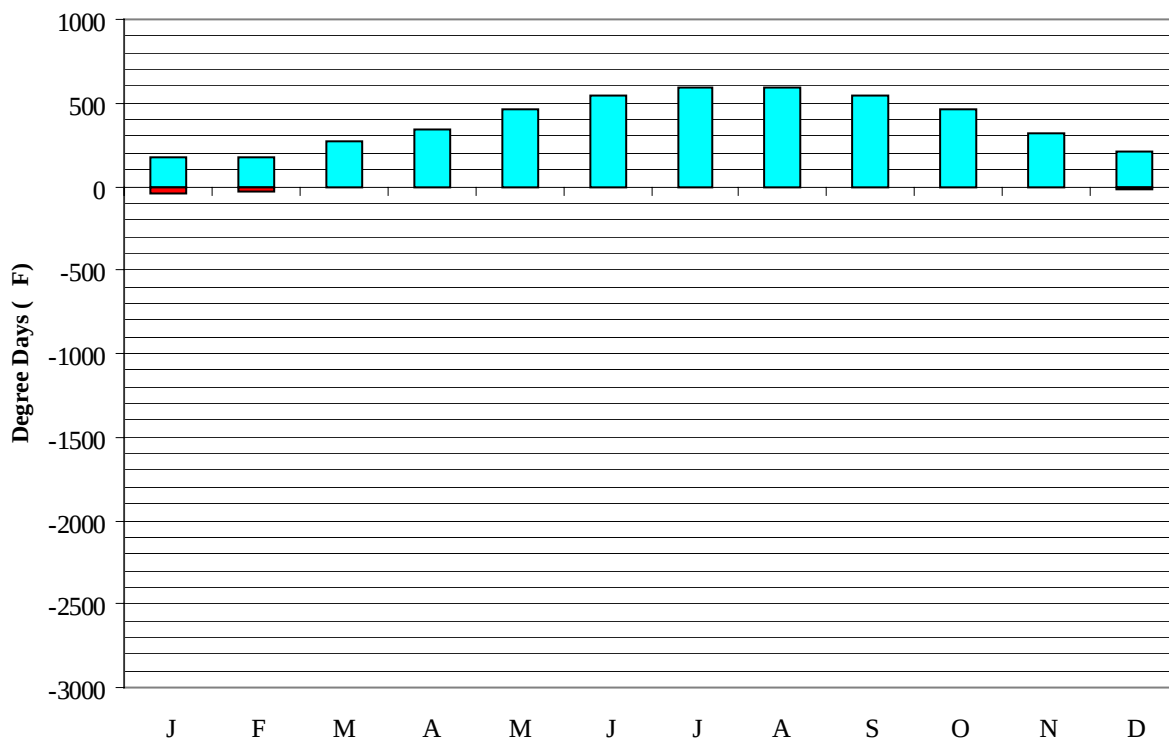
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	81.0	72.9	74.9	65.4	51.0	119.0	77.0	94.6	71.1
14-Jan	80.0	72.2	73.9	64.2	51.0	122.5	76.7	90.6	67.7
21-Jan	81.0	73.0	73.9	64.2	53.0	119.0	76.8	90.5	66.0
28-Jan	81.0	73.0	74.6	64.9	53.0	126.7	77.6	92.4	69.1
4-Feb	81.0	71.9	74.2	64.4	53.0	123.2	77.4	89.7	66.2
11-Feb	82.0	73.7	74.7	64.7	52.0	126.0	78.8	89.7	67.9
18-Feb	83.0	73.9	76.4	67.2	54.0	126.7	80.2	97.5	75.1
25-Feb	81.0	73.0	75.3	65.6	53.0	123.2	78.8	90.3	67.4
4-Mar	82.0	73.6	77.6	68.3	57.0	122.5	78.7	97.7	75.2
11-Mar	83.0	73.5	77.7	68.3	57.0	126.7	80.1	96.7	74.6
18-Mar	83.0	74.5	78.2	68.8	60.0	130.9	82.0	100.0	75.6
25-Mar	84.0	74.8	80.1	71.5	63.0	130.9	81.6	104.9	84.3
1-Apr	84.0	74.7	80.0	71.1	62.0	130.9	81.3	103.2	79.4
8-Apr	84.0	74.2	80.9	71.9	66.0	130.9	78.8	103.5	82.1
15-Apr	85.0	74.3	81.2	72.4	66.0	126.7	79.7	101.9	79.9
22-Apr	86.0	75.5	82.0	73.1	68.0	132.3	82.9	107.0	84.5
29-Apr	86.0	76.8	82.6	73.9	68.0	140.7	83.8	109.2	89.6
6-May	87.0	75.8	83.9	75.3	71.0	135.8	82.6	111.6	92.3
13-May	88.0	78.1	84.5	75.9	72.0	149.8	84.1	116.5	95.9
20-May	88.0	75.8	84.9	76.4	73.0	156.8	81.8	120.3	98.7
27-May	88.0	79.3	85.9	77.5	74.0	151.2	83.7	127.0	105.3
3-Jun	89.0	78.0	86.7	78.6	74.0	149.8	86.1	129.9	109.0
10-Jun	89.0	78.4	87.0	78.7	75.0	145.6	85.0	130.0	109.4
17-Jun	90.0	79.6	87.3	79.1	76.0	149.8	85.2	131.9	111.4
24-Jun	90.0	79.5	88.0	79.4	75.0	150.5	85.3	133.3	112.6
1-Jul	90.0	79.7	88.6	79.8	77.0	149.1	86.2	134.0	112.9
8-Jul	90.0	79.2	88.6	79.7	76.0	149.1	88.5	133.7	112.1
15-Jul	90.0	78.9	88.6	79.9	76.0	144.9	84.2	133.1	112.9
22-Jul	90.0	79.5	88.7	80.1	77.0	158.2	89.1	133.8	112.6
29-Jul	90.0	78.9	88.7	79.9	76.0	156.1	87.2	135.0	113.9
5-Aug	90.0	79.0	89.0	79.7	76.0	156.1	85.1	135.6	114.0
12-Aug	90.0	79.0	88.8	79.9	76.0	150.5	85.7	136.0	114.8
19-Aug	90.0	79.2	88.7	79.3	76.0	151.2	86.0	137.2	115.4
26-Aug	90.0	79.3	88.5	79.2	76.0	149.1	85.4	135.5	115.0
2-Sep	90.0	80.5	88.3	79.2	76.0	150.5	87.2	136.5	114.6
9-Sep	90.0	79.3	88.1	79.0	76.0	150.5	84.9	136.2	113.7
16-Sep	90.0	80.9	88.1	79.1	76.0	168.7	88.6	136.7	115.0
23-Sep	89.0	78.7	87.2	78.6	75.0	158.9	86.1	134.2	112.0
30-Sep	88.0	78.2	86.2	77.8	74.0	151.2	85.6	130.9	109.8
7-Oct	88.0	78.2	85.4	76.9	74.0	145.6	85.0	127.5	105.8
14-Oct	88.0	77.0	83.9	75.4	70.0	145.6	84.0	123.4	100.1
21-Oct	86.0	76.5	83.0	74.7	68.0	140.7	82.4	117.8	97.2
28-Oct	86.0	78.1	82.7	74.4	68.0	148.4	82.4	118.1	97.4
4-Nov	85.0	75.9	81.3	72.9	64.0	140.0	83.6	114.1	92.1
11-Nov	84.0	75.4	79.6	71.3	63.0	137.2	80.0	107.4	86.7
18-Nov	84.0	74.9	79.7	71.2	63.0	135.1	80.6	110.0	88.6
25-Nov	84.0	76.7	79.4	71.1	62.0	135.1	81.9	109.9	88.0
2-Dec	84.0	76.4	77.8	69.0	60.0	131.6	80.3	102.0	79.9
9-Dec	82.0	74.7	76.5	67.3	57.0	126.7	79.4	95.5	74.2
16-Dec	81.0	73.6	75.2	65.6	55.0	126.0	79.0	91.9	69.5
23-Dec	81.0	73.5	74.7	65.5	49.0	123.2	76.6	94.6	72.6
31-Dec	81.0	74.0	75.6	66.8	56.0	127.4	78.6	96.8	75.9

KEY WEST NAS

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WMO No. 722015

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



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

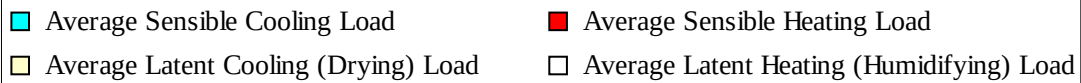
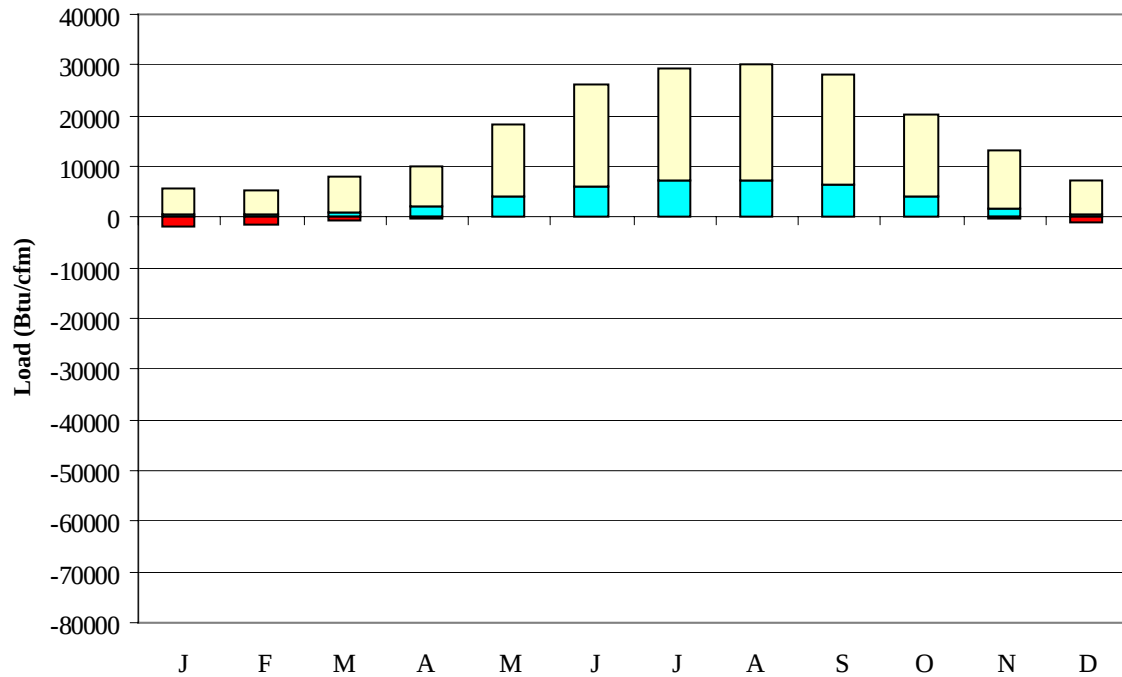
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	174	38
FEB	168	29
MAR	265	9
APR	341	1
MAY	464	0
JUN	539	0
JUL	595	0
AUG	593	0
SEP	547	0
OCT	458	0
NOV	322	1
DEC	214	22
ANN	4680	100

KEY WEST NAS

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WMO No. 722015

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	460	-1766	5347	-20
FEB	527	-1406	4674	-7
MAR	1091	-543	6897	-3
APR	1964	-72	7990	0
MAY	4122	-1	14026	0
JUN	6210	0	20113	0
JUL	7395	0	22061	0
AUG	7357	0	22697	0
SEP	6399	0	21736	0
OCT	3986	-4	16402	0
NOV	1774	-142	11207	0
DEC	676	-1071	6646	-9
ANN	41961	-5005	159796	-39

Average Annual Solar Radiation – Nearest Available Site

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

City: KEY WEST
 State: FL
 WBAN No: 12836
 Lat(N): 24.55
 Long(W): 81.75
 Elev(ft): 3

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 1.335
 Vert Gap: 0.2

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	1160	1410	1730	2000	2010	1940	1940	1850	1650	1450	1220	1090	1620
	Std Dev	85	86	105	91	99	115	71	73	71	94	77	64	33
	Minimum	950	1170	1460	1810	1740	1640	1760	1660	1460	1280	1040	960	1560
	Maximum	1290	1540	1910	2180	2160	2130	2040	1950	1760	1620	1340	1210	1680
	Diffuse	390	440	530	610	750	830	840	800	720	560	440	380	610
Clear Day	Global	1490	1770	2100	2360	2470	2480	2440	2330	2120	1810	1510	1390	2020
NORTH	Global	280	320	380	450	570	650	610	490	420	360	300	270	430
	Diffuse	280	320	380	430	480	520	510	470	420	360	300	270	400
Clear Day	Global	270	310	360	440	610	750	670	490	400	350	290	260	430
EAST	Global	710	820	960	1070	1040	980	990	960	890	830	720	660	890
	Diffuse	350	410	480	550	590	600	610	590	540	460	380	340	490
Clear Day	Global	940	1070	1210	1290	1290	1270	1250	1230	1170	1060	930	880	1130
SOUTH	Global	1380	1320	1120	790	550	480	510	650	890	1170	1330	1380	960
	Diffuse	460	480	500	490	480	480	480	510	540	530	490	460	490
Clear Day	Global	1960	1780	1380	870	560	470	500	730	1160	1590	1840	1950	1230
WEST	Global	700	830	990	1090	1040	980	980	950	870	820	720	670	890
	Diffuse	350	400	480	550	590	600	610	590	540	460	390	340	490
Clear Day	Global	940	1070	1210	1290	1290	1270	1250	1230	1170	1060	930	880	1130

Average Annual Solar Heat and Illumination – Nearest Available Site

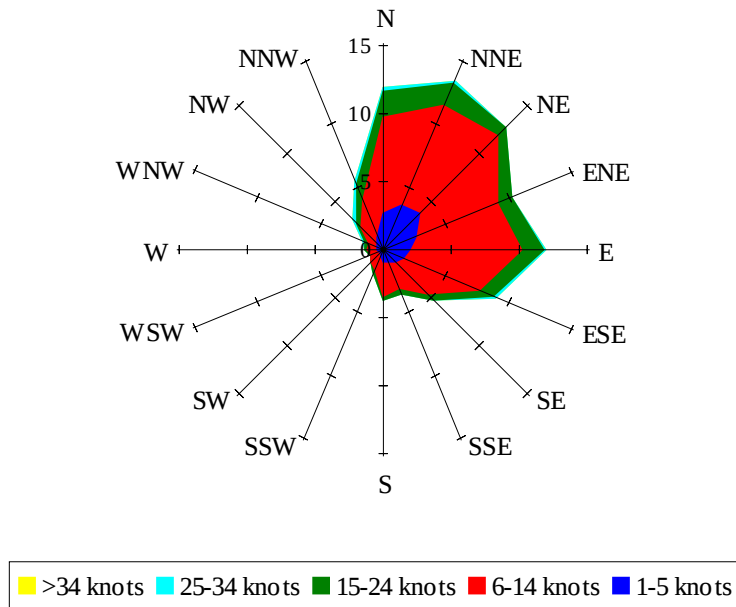
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	810	1010	1260	1470	1480	1420	1420	1350	1200	1050	860	760	1170
NORTH	Unshaded	200	230	260	300	360	400	380	330	290	250	210	190	280
	Shaded	150	170	210	240	260	270	260	240	220	190	160	140	210
EAST	Unshaded	500	580	680	760	730	690	700	680	630	580	500	460	620
	Shaded	280	320	360	400	380	360	360	350	330	310	280	260	330
SOUTH	Unshaded	1000	920	700	450	340	330	340	390	550	790	960	1020	650
	Shaded	280	220	240	260	250	250	250	250	250	230	240	310	250
WEST	Unshaded	490	590	700	780	740	690	690	670	620	580	500	460	630
	Shaded	280	320	370	410	380	360	360	350	320	310	280	270	330

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	79	96	82	42	30	74	100	99	72
	M.Cloudy	27	60	72	64	31	23	57	81	79	57
NORTH	M.Clear	10	15	16	16	11	23	24	17	18	25
	M.Cloudy	10	17	18	17	11	16	22	19	19	22
EAST	M.Clear	71	67	19	16	11	54	73	41	18	17
	M.Cloudy	40	48	20	17	11	32	53	36	19	17
SOUTH	M.Clear	26	53	64	55	30	10	17	19	19	17
	M.Cloudy	18	40	49	43	21	9	17	20	20	17
WEST	M.Clear	10	15	16	63	75	10	17	17	44	73
	M.Cloudy	10	17	18	48	44	9	17	19	37	54
M.Clear	(% hrs)	53	53	54	54	56	33	34	31	32	35

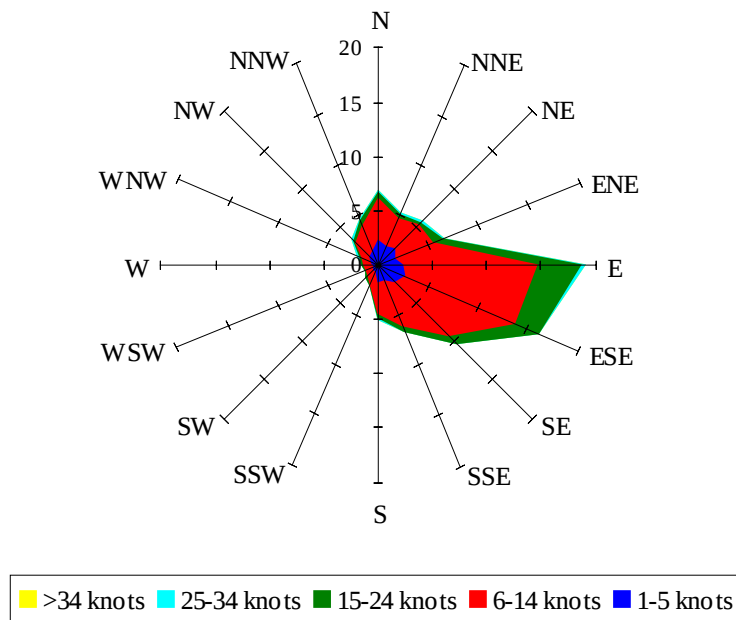
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	19	66	93	91	60	23	58	71	55	18
	M.Cloudy	16	53	76	74	48	16	42	51	40	13
NORTH	M.Clear	8	16	18	18	16	7	13	14	12	6
	M.Cloudy	7	16	19	19	16	7	14	15	13	6
EAST	M.Clear	41	72	41	18	16	51	52	14	12	6
	M.Cloudy	26	54	36	19	16	25	34	15	13	6
SOUTH	M.Clear	10	37	55	53	34	39	75	86	72	33
	M.Cloudy	8	30	45	44	27	20	46	55	44	16
WEST	M.Clear	8	16	18	47	72	7	13	17	55	46
	M.Cloudy	7	16	19	40	52	7	14	17	35	21
M.Clear	(% hrs)	27	27	25	22	23	44	46	46	46	48

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



Percent Calm = 3.51

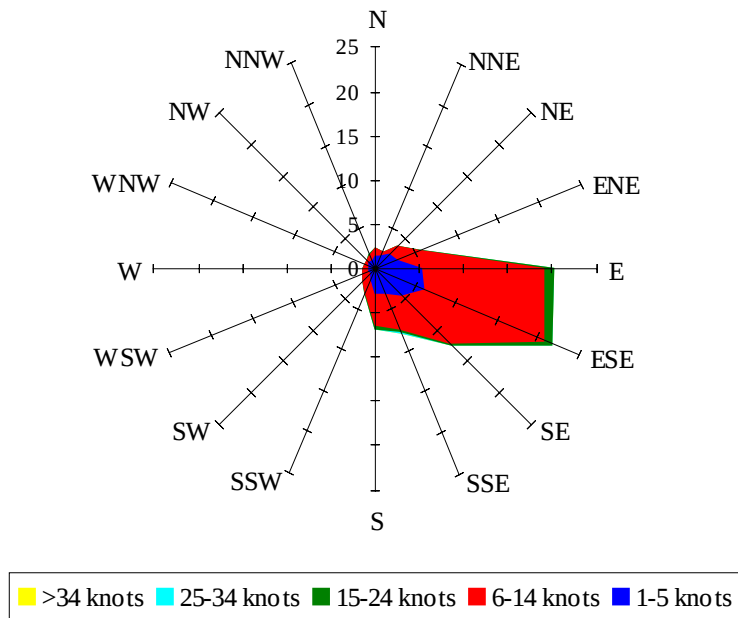
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 3.55

Wind Summary - June, July, and August

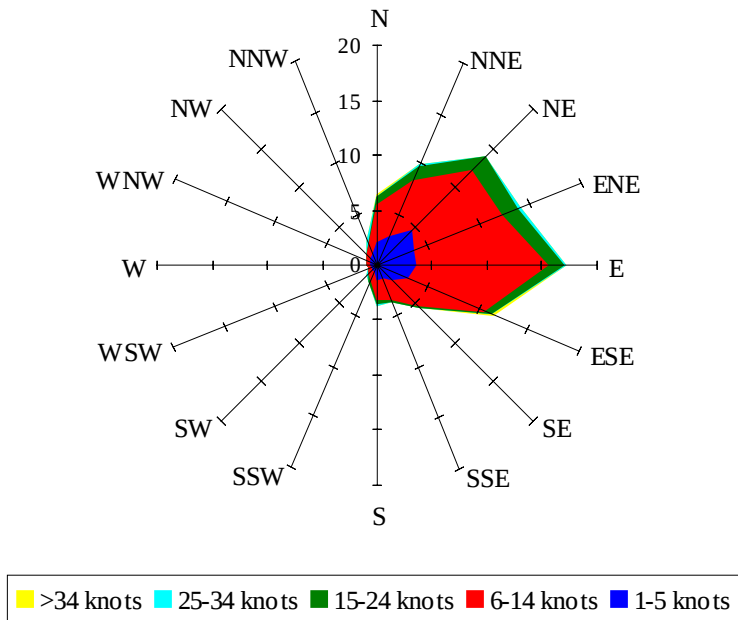
Labels of Percent Frequency on North Axis



Percent Calm = 6.57

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 5.81