

JACKSONVILLE NAS FL

Latitude = 30.23 N

WMO No. 722065

Longitude = 81.68 W

Elevation = 23 feet

Period of Record = 1973 to 1996

Average Pressure = 30.00 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	98	79	115	5.6	W
0.4% Occurrence	95	77	112	6.1	W
1.0% Occurrence	93	77	112	6.4	W
2.0% Occurrence	91	76	112	6.8	E
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	39	35	24	7.2	N
99.0% Occurrence	34	31	20	6.6	W
99.6% Occurrence	30	26	14	7.6	W
Median of Extreme Lows	25	21	10	8.9	W
	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	83	91	157	6.8	W
0.4% Occurrence	80	90	138	6.2	ESE
1.0% Occurrence	79	89	133	6.6	E
2.0% Occurrence	78	87	128	6.7	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	172	86	1.14	7.7	SE
0.4% Occurrence	145	84	0.97	5.3	E
1.0% Occurrence	136	83	0.90	6.4	S
2.0% Occurrence	134	83	0.90	5.7	E
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		109	1855	2054	3989

Other Site Data

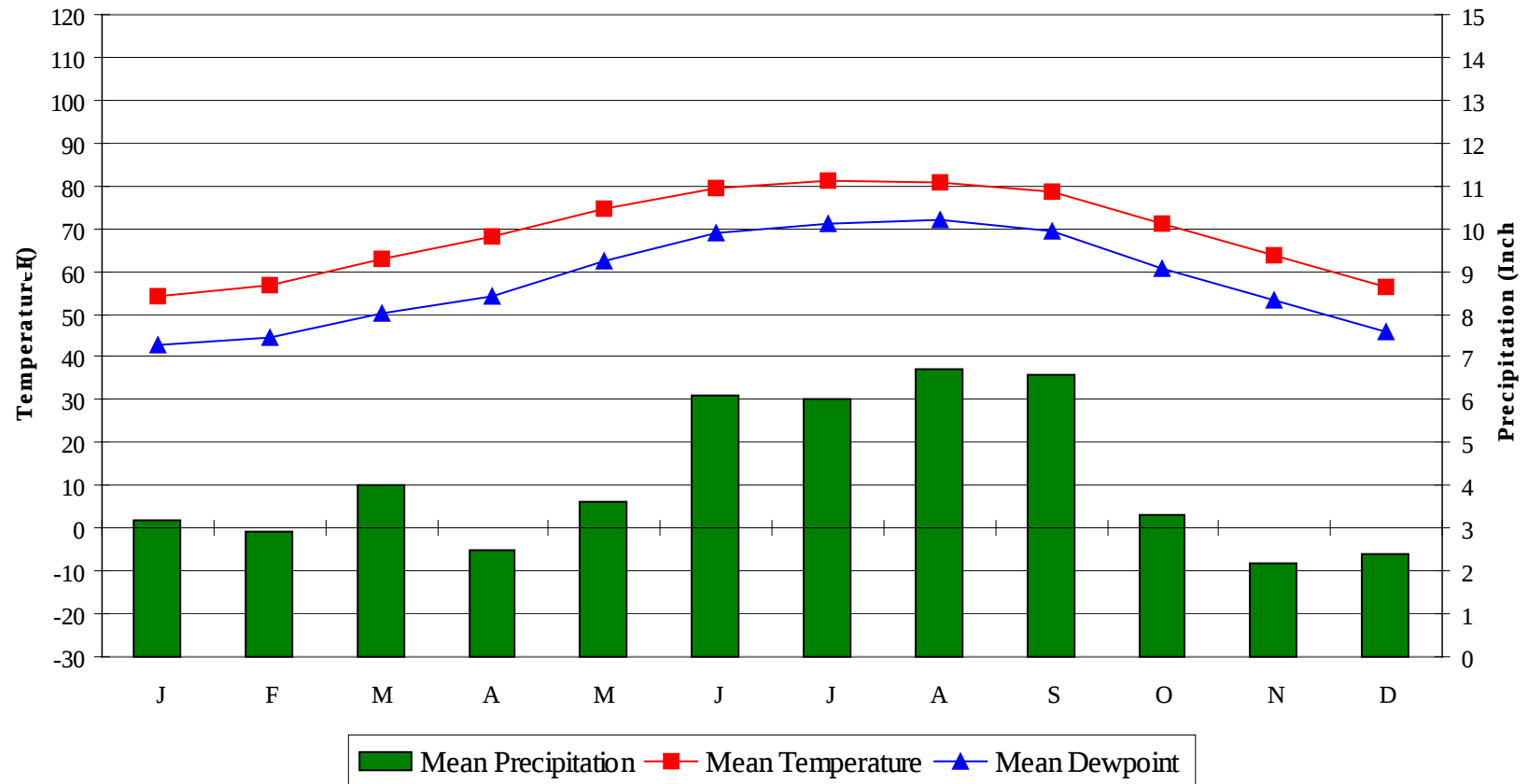
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
10	4.3	120	7.1 + 2.0
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
71.5	0	0	8

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

JACKSONVILLE NAS FL

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Average Annual Climate

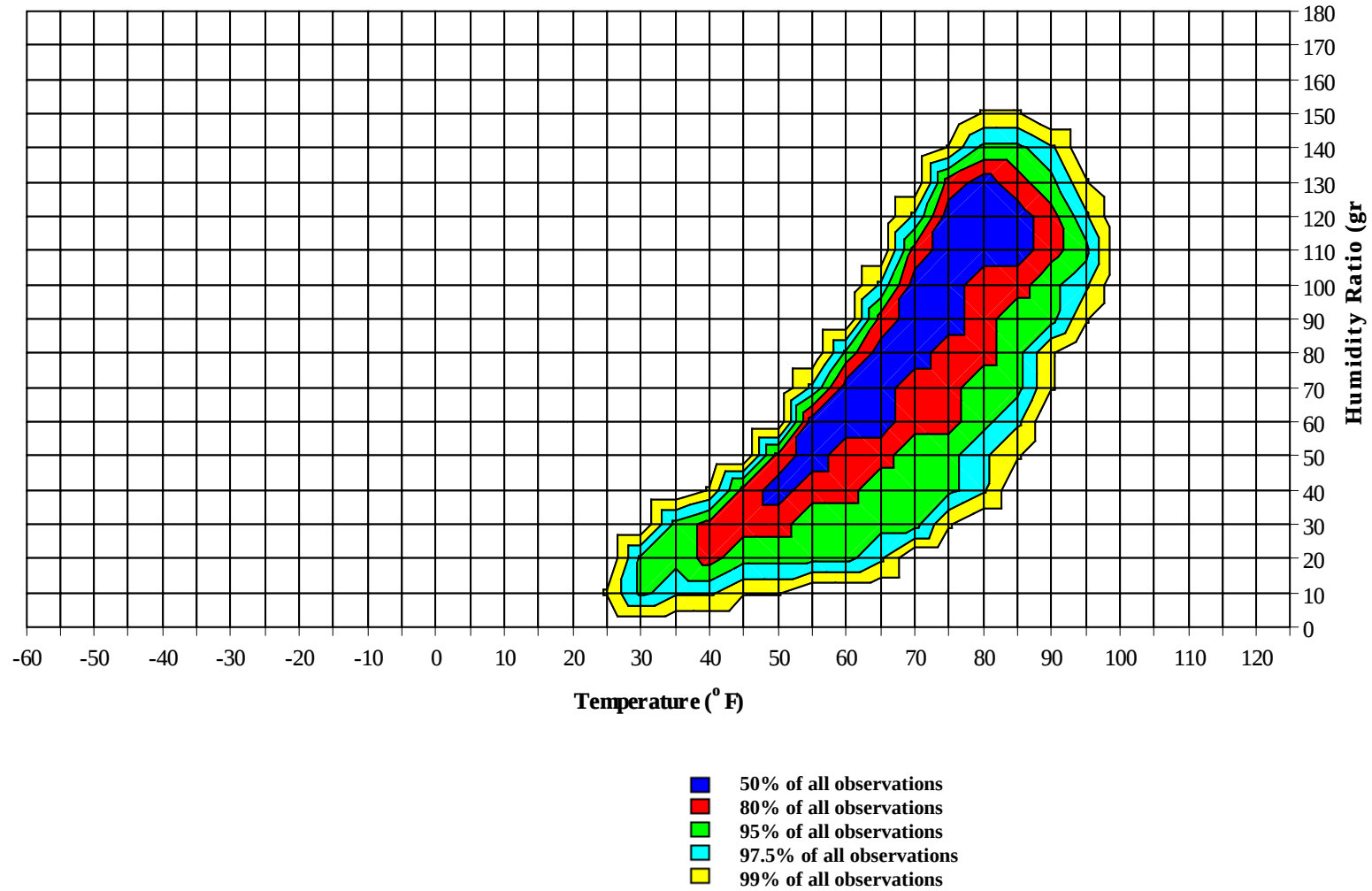


JACKSONVILLE NAS

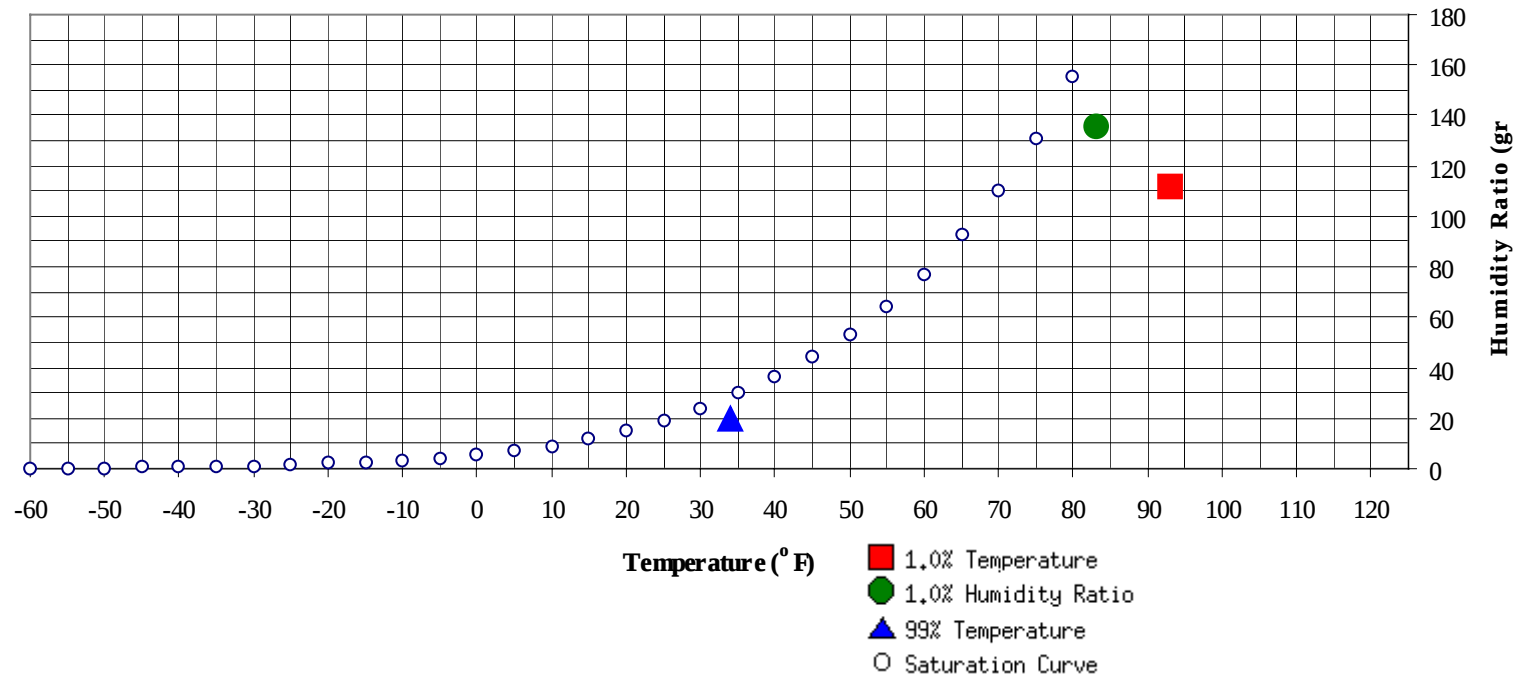
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WMO No. 722065

Long Term Psychrometric Summary



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	34	19.7	11.2		135.8	83.1	77.9	75.9	41.2

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	93	112	76.8	40.0

JACKSONVILLE NAS FL

WMO No. 722065

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	0	1	71.0		0		0	67.8		0	0	0	72.2
80 / 84		6	1	7	68.6		9	2	11	66.9		26	7	33	66.9
75 / 79		15	4	19	66.0		21	7	28	64.2	0	45	15	61	64.1
70 / 74	2	28	14	44	62.8	1	33	18	52	61.9	9	50	37	96	62.6
65 / 69	17	35	26	78	60.3	19	35	34	88	59.8	42	44	55	140	60.4
60 / 64	30	41	36	107	56.2	32	37	38	107	56.3	59	37	55	151	56.7
55 / 59	33	40	43	116	51.9	37	33	40	110	51.6	48	19	36	104	51.9
50 / 54	37	34	42	112	47.2	38	24	35	97	46.9	35	10	23	68	47.0
45 / 49	33	24	35	92	42.4	32	17	26	75	42.2	27	6	11	44	42.7
40 / 44	35	14	29	78	37.7	28	8	16	53	37.5	18	2	5	25	38.1
35 / 39	32	7	13	51	33.2	20	4	7	31	32.8	8	1	2	11	33.9
30 / 34	19	2	5	27	28.7	13	1	2	17	29.0	2	0	0	3	28.9
25 / 29	7	1	2	10	24.2	3	0	0	4	24.4	0	0	0	1	25.3
20 / 24	2	0	0	3	18.9	0	0		0	20.0	0			0	20.7
15 / 19	1	0		1	14.6										
10 / 14	0	0		0	8.2										
5 / 9	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.

JACKSONVILLE NAS FL

WMO No. 722065

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						0		0			0	0	0	0	77.7
95 / 99		0		0	68.0	1	0	1	73.4		8	1	10	76.5	
90 / 94		3	0	3	69.2	16	3	18	72.6		48	8	57	75.6	
85 / 89		20	4	24	68.6	61	13	74	71.3	0	85	21	107	74.8	
80 / 84		47	13	60	66.8	2	84	34	119	69.7	13	63	54	130	73.5
75 / 79	2	63	31	96	64.7	28	56	70	154	68.5	94	25	106	224	72.2
70 / 74	26	53	61	140	63.1	93	22	85	200	66.9	113	8	46	167	69.5
65 / 69	63	32	63	158	61.0	73	5	35	112	62.8	19	1	4	24	65.2
60 / 64	60	15	40	115	56.7	32	1	8	41	58.1	2		0	2	59.3
55 / 59	40	4	18	63	51.8	14	1	2	16	53.7	0		0	0	52.5
50 / 54	29	2	8	39	47.5	6	0	0	6	49.8	0		0	0	48.8
45 / 49	14	1	2	17	43.3	1		0	1	45.7					
40 / 44	4		0	5	39.3										
35 / 39	1		0	1	34.0										
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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WMO No. 722065

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		1	0	1	77.6		1		1	81.1					
95 / 99		16	2	18	78.2		9	1	10	78.4		2		2	77.1
90 / 94		73	13	86	77.1		62	7	69	77.5		34	2	37	76.3
85 / 89	1	92	31	124	76.3	1	98	28	126	76.7	0	88	15	102	75.6
80 / 84	30	44	83	157	75.1	29	55	89	172	75.5	9	68	66	143	74.2
75 / 79	135	16	92	243	73.1	135	19	95	249	73.5	101	32	105	238	72.6
70 / 74	80	4	27	111	70.4	80	4	29	112	70.8	100	13	44	158	69.5
65 / 69	4	0	1	4	65.2	5	0	1	5	66.2	21	2	7	30	64.0
60 / 64	0			0	62.0						7	0	1	9	59.1
55 / 59											1	0	0	1	54.5
50 / 54											0		0	0	49.6
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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JACKSONVILLE NAS FL

WMO No. 722065

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		0		0	75.5										
90 / 94		4	0	5	75.3										
85 / 89		30	2	32	73.2		3	0	3	71.8		0		0	71.8
80 / 84	1	65	15	82	70.8	0	30	2	32	69.8		6	0	7	69.7
75 / 79	23	65	52	140	69.3	1	51	14	67	67.3		24	3	27	66.4
70 / 74	70	47	83	199	66.9	31	50	50	132	65.6	5	35	17	57	64.2
65 / 69	54	22	52	129	62.1	49	40	57	146	62.0	19	38	32	89	61.1
60 / 64	45	9	27	81	57.4	42	30	43	115	57.0	37	46	46	129	57.2
55 / 59	31	2	11	44	52.6	33	19	31	83	51.7	42	36	47	125	52.4
50 / 54	14	1	5	20	48.4	31	9	22	62	47.2	36	29	37	103	47.4
45 / 49	7	0	2	9	44.6	26	4	12	42	42.7	33	17	29	79	42.6
40 / 44	3		0	3	39.7	16	1	8	25	38.6	31	9	22	62	38.1
35 / 39	0			0	35.4	8	0	2	10	34.4	26	4	9	39	33.5
30 / 34						2		0	2	31.5	13	1	4	18	28.9
25 / 29						0			0	26.8	4	1	1	6	24.6
20 / 24											1	0	1	2	19.9
15 / 19											1	0		1	14.3
10 / 14															
5 / 9															

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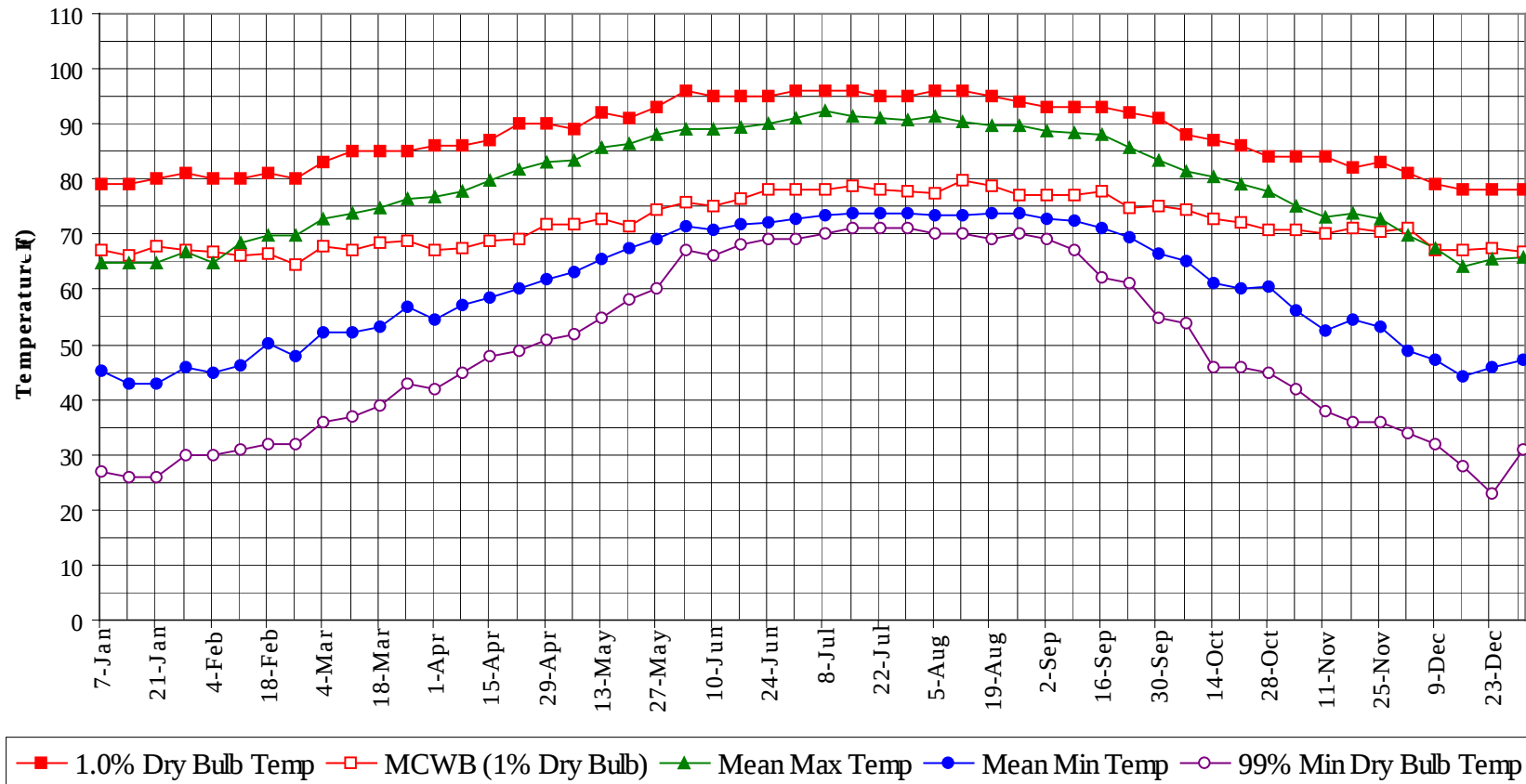
WMO No. 722065

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1973 to 1996

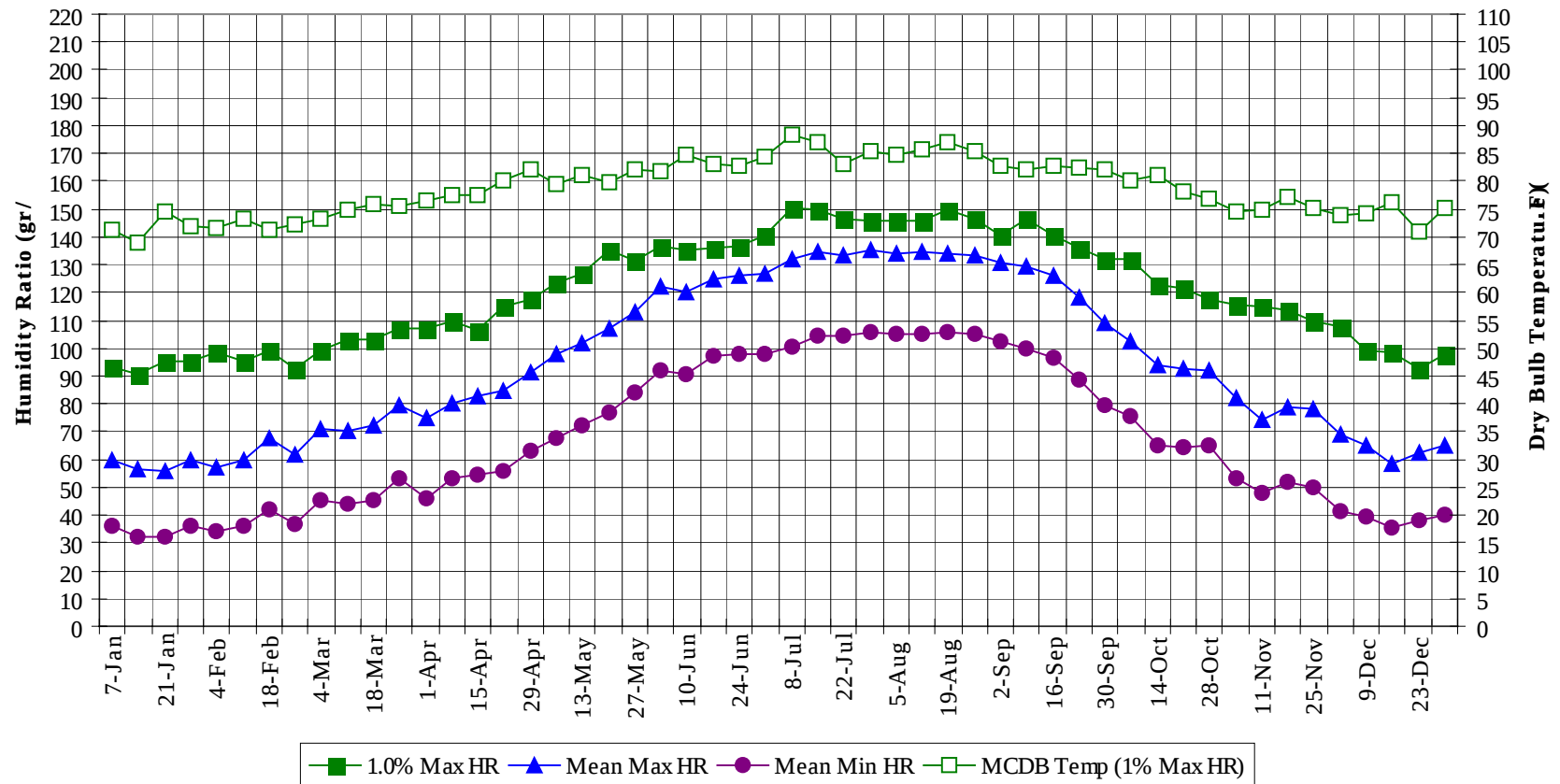
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		2	0	2	79.3
95 / 99		37	4	41	77.6
90 / 94		241	33	274	76.4
85 / 89	3	482	115	599	74.8
80 / 84	82	503	364	950	72.6
75 / 79	518	433	593	1544	70.7
70 / 74	609	348	510	1467	66.9
65 / 69	385	254	365	1005	61.5
60 / 64	347	217	294	857	56.9
55 / 59	280	155	228	663	52.0
50 / 54	227	110	172	509	47.2
45 / 49	173	69	118	359	42.6
40 / 44	136	35	80	252	38.0
35 / 39	96	15	33	144	33.4
30 / 34	50	5	11	66	28.9
25 / 29	15	2	3	20	24.4
20 / 24	3	1	1	5	19.4
15 / 19	2	0		2	14.5
10 / 14	0	0		0	8.2
5 / 9	0			0	

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



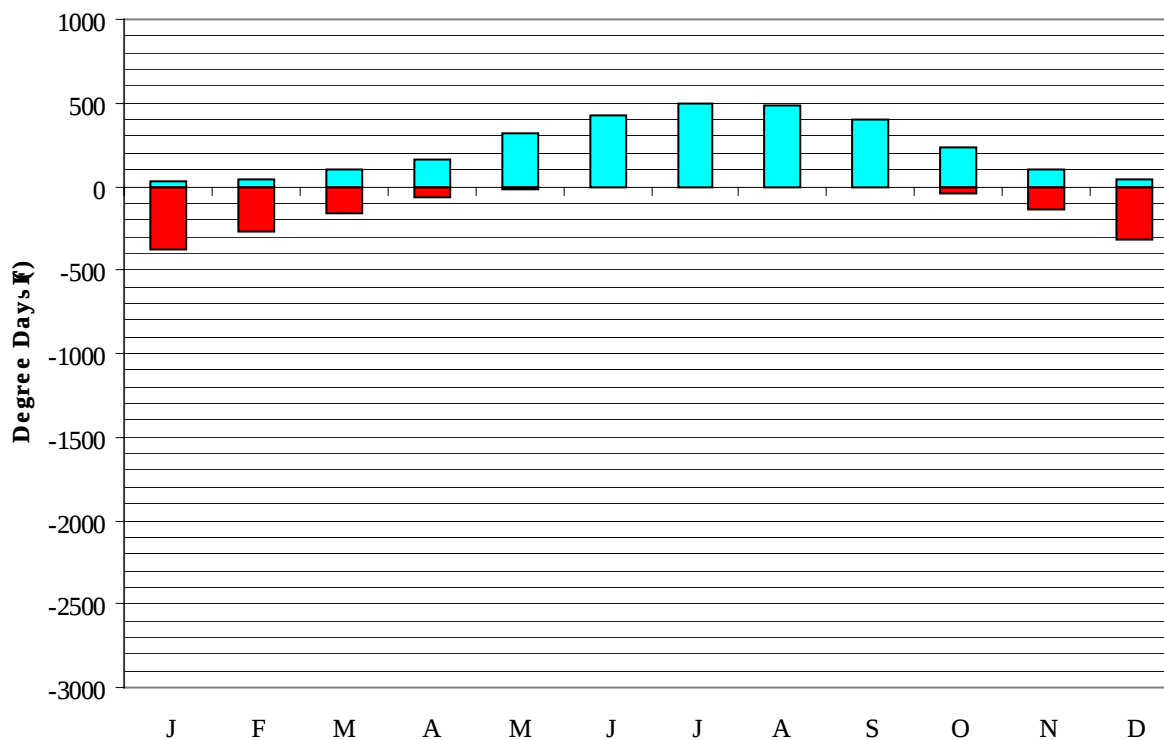
JACKSONVILLE NAS FL

WMO No. 722065

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	79.0	67.1	64.8	45.1	27.0	93.1	71.2	59.7	36.4
14-Jan	79.0	66.3	64.7	43.0	26.0	90.3	69.1	56.4	32.4
21-Jan	80.0	67.9	64.8	43.0	26.0	95.2	74.4	56.1	32.2
28-Jan	81.0	67.1	66.9	45.8	30.0	95.2	71.9	59.7	36.1
4-Feb	80.0	66.8	64.8	44.8	30.0	98.7	71.6	56.9	34.2
11-Feb	80.0	66.2	68.4	46.2	31.0	95.2	73.2	59.8	35.9
18-Feb	81.0	66.6	69.8	50.2	32.0	99.4	71.3	67.4	41.9
25-Feb	80.0	64.4	69.8	47.8	32.0	92.4	72.3	61.4	36.9
4-Mar	83.0	67.8	72.6	52.2	36.0	99.4	73.1	71.2	45.2
11-Mar	85.0	67.2	73.9	52.3	37.0	102.9	75.0	70.1	43.7
18-Mar	85.0	68.5	74.6	53.2	39.0	102.9	76.0	72.4	45.4
25-Mar	85.0	68.7	76.4	56.9	43.0	107.1	75.5	79.4	52.9
1-Apr	86.0	67.3	76.8	54.4	42.0	107.1	76.5	74.6	46.1
8-Apr	86.0	67.6	77.7	57.2	45.0	109.9	77.6	80.2	53.3
15-Apr	87.0	68.9	79.7	58.4	48.0	106.4	77.4	82.7	54.7
22-Apr	90.0	69.2	81.7	60.2	49.0	114.8	80.2	84.6	55.5
29-Apr	90.0	71.7	83.0	61.9	51.0	117.6	82.2	91.5	62.8
6-May	89.0	71.8	83.4	63.2	52.0	123.2	79.4	97.8	67.5
13-May	92.0	72.8	85.7	65.5	55.0	126.7	81.2	102.1	72.3
20-May	91.0	71.4	86.3	67.3	58.0	135.1	79.9	106.9	77.1
27-May	93.0	74.4	87.9	69.0	60.0	131.6	81.9	113.0	84.2
3-Jun	96.0	75.9	89.0	71.4	67.0	136.5	81.9	122.1	92.2
10-Jun	95.0	75.1	89.1	70.8	66.0	135.1	84.7	120.3	90.8
17-Jun	95.0	76.3	89.6	71.9	68.0	135.8	83.0	124.8	97.0
24-Jun	95.0	78.2	90.0	72.1	69.0	136.5	82.6	126.2	97.9
1-Jul	96.0	78.0	91.1	72.9	69.0	140.7	84.3	126.7	98.0
8-Jul	96.0	78.2	92.2	73.4	70.0	150.5	88.5	132.0	100.4
15-Jul	96.0	78.7	91.4	73.9	71.0	149.8	87.0	134.7	104.3
22-Jul	95.0	78.1	90.9	73.9	71.0	146.3	83.2	133.4	104.4
29-Jul	95.0	77.6	90.9	73.7	71.0	145.6	85.5	135.4	105.5
5-Aug	96.0	77.5	91.5	73.6	70.0	145.6	84.7	134.2	105.1
12-Aug	96.0	79.9	90.2	73.4	70.0	145.6	85.8	134.5	105.2
19-Aug	95.0	78.9	89.9	73.6	69.0	149.8	87.1	134.0	105.6
26-Aug	94.0	77.2	89.8	73.7	70.0	146.3	85.3	133.5	105.3
2-Sep	93.0	77.0	88.6	72.6	69.0	140.7	82.6	130.9	102.2
9-Sep	93.0	77.1	88.3	72.5	67.0	146.3	82.1	129.4	100.1
16-Sep	93.0	77.6	88.0	71.2	62.0	140.7	82.8	125.8	96.7
23-Sep	92.0	74.6	85.8	69.3	61.0	135.8	82.5	118.3	89.0
30-Sep	91.0	75.0	83.5	66.6	55.0	132.3	82.1	109.2	79.2
7-Oct	88.0	74.6	81.6	65.1	54.0	132.3	80.2	102.3	75.8
14-Oct	87.0	72.8	80.5	61.2	46.0	122.5	81.1	93.7	65.2
21-Oct	86.0	72.0	79.2	60.1	46.0	121.8	78.2	92.6	64.1
28-Oct	84.0	70.8	77.7	60.5	45.0	117.6	76.7	91.7	64.7
4-Nov	84.0	70.7	75.3	56.0	42.0	115.5	74.6	81.9	53.5
11-Nov	84.0	70.2	73.1	52.5	38.0	114.8	74.8	74.1	47.7
18-Nov	82.0	71.1	73.7	54.5	36.0	113.4	77.1	78.5	51.9
25-Nov	83.0	70.5	72.6	53.2	36.0	109.9	75.0	78.0	50.2
2-Dec	81.0	71.3	69.8	48.9	34.0	107.8	73.9	68.9	41.3
9-Dec	79.0	67.2	67.6	47.4	32.0	99.4	74.1	64.9	39.4
16-Dec	78.0	67.2	64.1	44.3	28.0	98.7	76.1	58.7	35.4
23-Dec	78.0	67.4	65.5	45.9	23.0	92.4	71.0	62.1	38.4
31-Dec	78.0	66.8	65.6	47.3	31.0	98.0	75.2	65.0	40.1

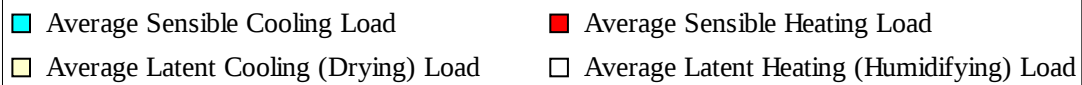
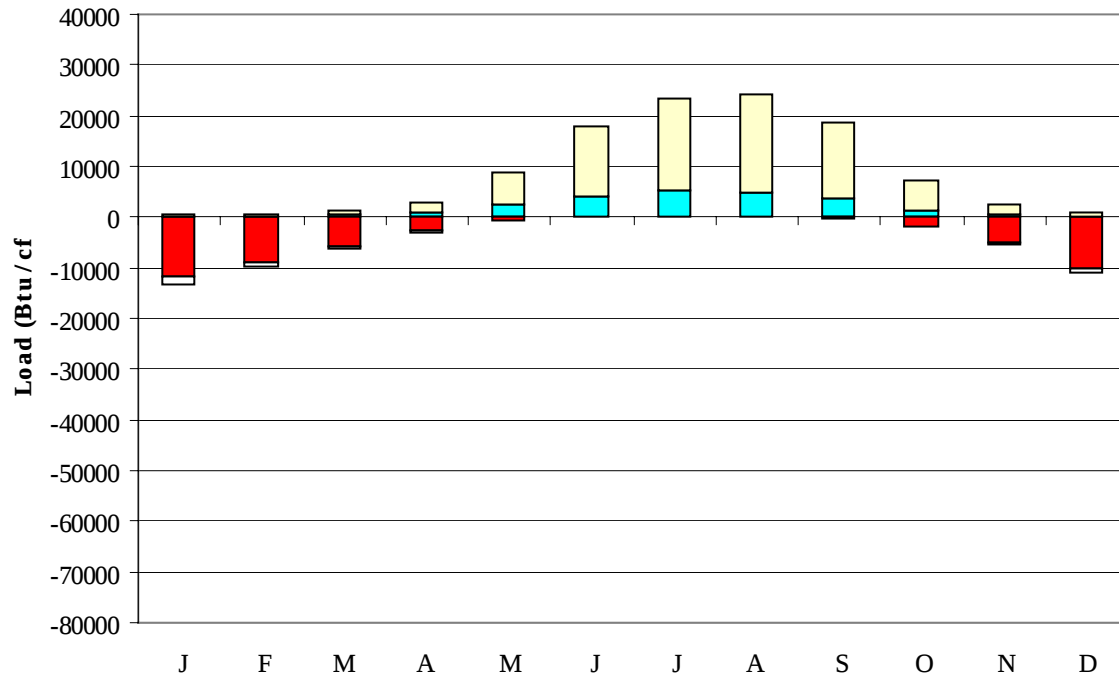
Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	32	373
FEB	42	274
MAR	98	160
APR	167	71
MAY	319	13
JUN	430	0
JUL	502	0
AUG	488	0
SEP	407	1
OCT	230	43
NOV	107	143
DEC	40	313
ANN	2863	1391

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	86	-11728	372	-1429
FEB	122	-8842	377	-1076
MAR	437	-5652	991	-423
APR	966	-2813	1766	-126
MAY	2451	-654	6284	-1
JUN	4014	-27	13836	0
JUL	5244	-2	18334	0
AUG	4913	-2	19319	0
SEP	3531	-97	14979	0
OCT	1323	-1770	5993	-15
NOV	388	-4995	2289	-290
DEC	93	-10078	699	-972
ANN	23568	-46660	85239	-4332

Average Annual Solar Radiation – Nearest Available Site

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

City: JACKSONVILLE
 State: FL
 WBAN No: 13889
 Lat(N): 30.5
 Long(W): 81.7
 Elev(ft): 30

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.897
 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	920	1160	1500	1860	1940	1900	1850	1710	1470	1250	1010	850	1450
	Std Dev	68	90	99	115	131	123	99	97	129	97	83	73	37
	Minimum	820	1020	1280	1630	1570	1670	1550	1480	1140	1060	790	690	1380
	Maximum	1100	1350	1640	2180	2250	2170	2030	1870	1710	1420	1190	1000	1530
	Diffuse	380	460	580	670	790	870	870	810	710	550	410	360	620
Clear Day	Global	1280	1600	1990	2340	2510	2550	2490	2320	2020	1650	1310	1160	1930
NORTH	Global	250	310	380	450	560	610	580	490	410	340	270	240	410
	Diffuse	250	310	380	440	490	520	510	470	410	340	270	240	390
Clear Day	Global	240	290	360	440	590	690	630	490	390	320	260	230	410
EAST	Global	570	700	870	1040	1050	1030	1030	980	860	760	620	530	840
	Diffuse	310	370	460	550	600	620	620	590	520	430	340	290	470
Clear Day	Global	850	1020	1190	1320	1350	1340	1300	1250	1150	1010	850	780	1120
SOUTH	Global	1200	1190	1110	910	670	580	610	740	920	1130	1230	1170	950
	Diffuse	410	450	510	530	520	520	520	540	540	510	440	390	490
Clear Day	Global	1990	1890	1570	1090	750	620	680	930	1340	1710	1890	1940	1360
WEST	Global	580	710	870	1030	1030	950	910	870	810	740	630	540	810
	Diffuse	310	370	470	550	600	610	600	570	510	430	340	290	470
Clear Day	Global	850	1020	1190	1320	1350	1340	1300	1250	1150	1010	850	780	1120

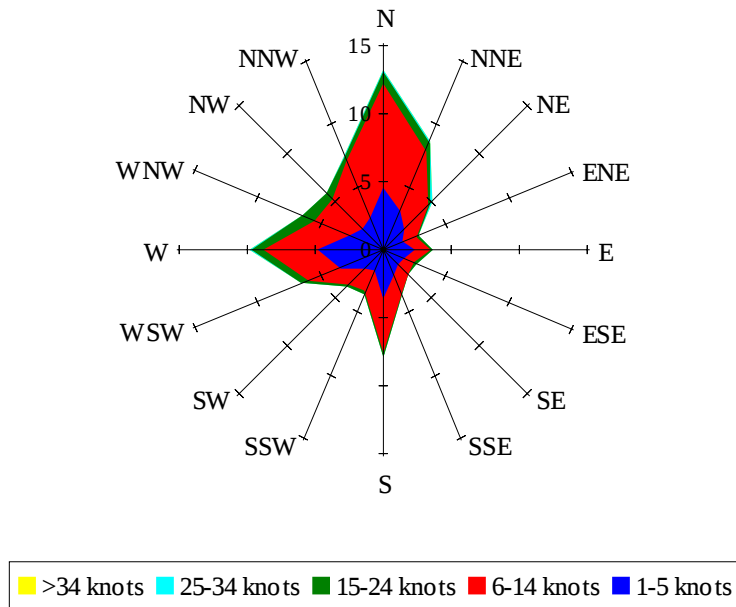
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	1080	1360	1420	1380	1350	1240	1060	890	700	570	1040
NORTH	Unshaded	180	210	260	310	360	390	370	330	280	240	190	170	270
	Shaded	150	190	230	280	310	330	320	290	250	210	170	140	240
EAST	Unshaded	400	490	610	740	750	730	730	700	610	540	430	370	590
	Shaded	340	420	520	610	610	600	600	580	500	450	370	320	490
SOUTH	Unshaded	890	850	730	550	400	370	380	450	590	780	900	870	650
	Shaded	840	690	410	320	320	320	320	330	330	560	820	840	510
WEST	Unshaded	410	500	620	740	730	670	640	610	570	520	440	370	570
	Shaded	350	430	520	610	600	540	520	500	470	440	370	320	470

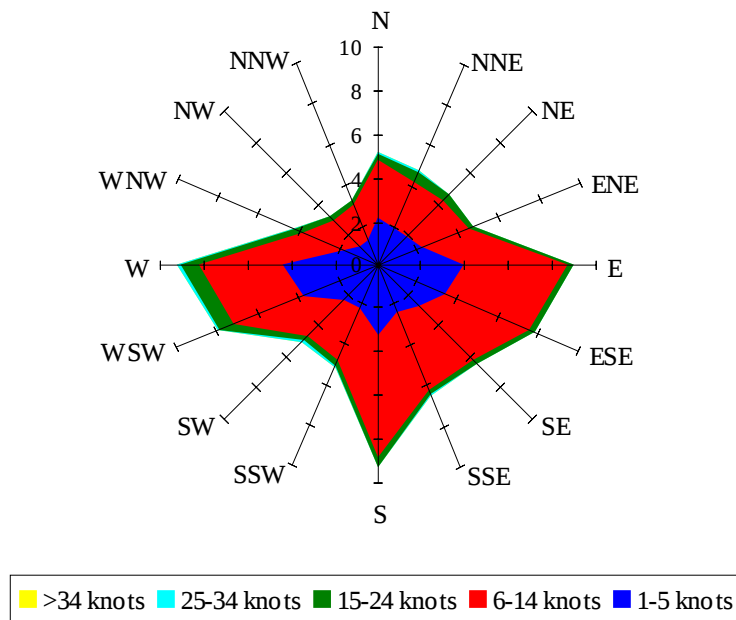
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	36	77	92	79	40	34	77	100	99	74
	M.Cloudy	21	49	60	52	26	24	55	76	74	48
NORTH	M.Clear	9	15	16	15	10	23	18	18	18	18
	M.Cloudy	9	16	18	16	10	15	18	19	19	17
EAST	M.Clear	75	67	19	15	10	62	76	42	18	17
	M.Cloudy	27	38	19	16	10	32	50	34	19	16
SOUTH	M.Clear	30	61	73	62	33	11	17	30	29	17
	M.Cloudy	14	35	44	38	18	10	17	27	26	16
WEST	M.Clear	9	15	16	62	76	11	17	18	44	75
	M.Cloudy	9	16	18	38	35	10	17	19	35	43
M.Clear	(% hrs)	41	42	39	39	38	43	35	29	25	30
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	20	65	90	86	58	18	52	63	48	13
	M.Cloudy	14	45	64	61	38	10	31	38	29	8
NORTH	M.Clear	8	16	18	18	15	6	11	13	11	5
	M.Cloudy	6	15	19	18	14	5	12	14	11	4
EAST	M.Clear	47	73	40	18	15	48	51	13	11	5
	M.Cloudy	20	43	31	18	14	14	24	14	11	4
SOUTH	M.Clear	12	43	62	59	38	37	80	91	75	29
	M.Cloudy	7	29	44	41	24	12	33	41	32	10
WEST	M.Clear	8	16	18	46	72	6	11	16	53	39
	M.Cloudy	6	15	19	33	38	5	12	15	25	12
M.Clear	(% hrs)	42	29	24	24	29	37	37	36	37	40

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



Percent Calm = 8.44

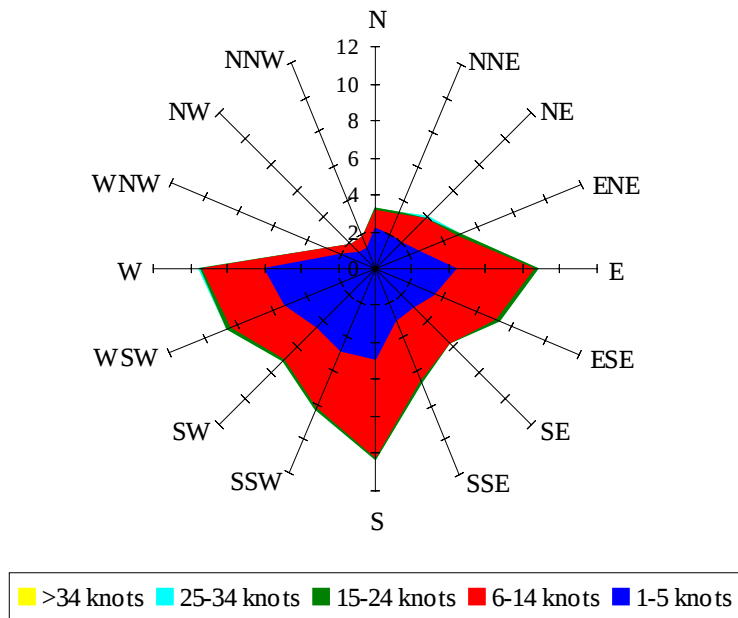
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 4.73

Wind Summary - June, July, and August

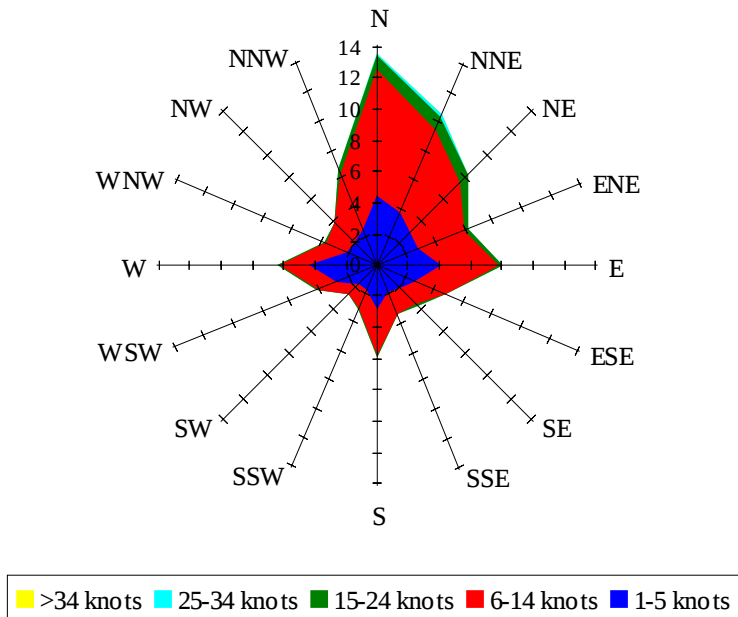
Labels of Percent Frequency on North Axis



Percent Calm = 5.98

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 6.94