

KEESLER AFB/BILOXI MS

Latitude = 30.42 N

WMO No. 747686

Longitude = 88.92 W

Elevation = 33 feet

Period of Record = 1967 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	96	80	128	7.5	N
0.4% Occurrence	93	79	127	8.0	S
1.0% Occurrence	92	79	127	8.0	S
2.0% Occurrence	90	78	127	7.9	SSW
Mean Daily Range	14	-	-	-	-
97.5% Occurrence	39	35	24	7.0	N
99.0% Occurrence	34	30	18	7.7	N
99.6% Occurrence	30	26	14	8.7	N
Median of Extreme Lows	25	22	11	9.3	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	84	91	164	9.3	SSW
0.4% Occurrence	82	89	152	8.3	SSW
1.0% Occurrence	81	89	147	7.7	SSW
2.0% Occurrence	80	88	141	7.4	S
	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	168	88	1.11	6.9	SSE
0.4% Occurrence	152	87	1.01	8.8	SW
1.0% Occurrence	147	86	0.97	8.7	SW
2.0% Occurrence	143	86	0.95	6.7	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		53	2172	2689	4256

Other Site Data

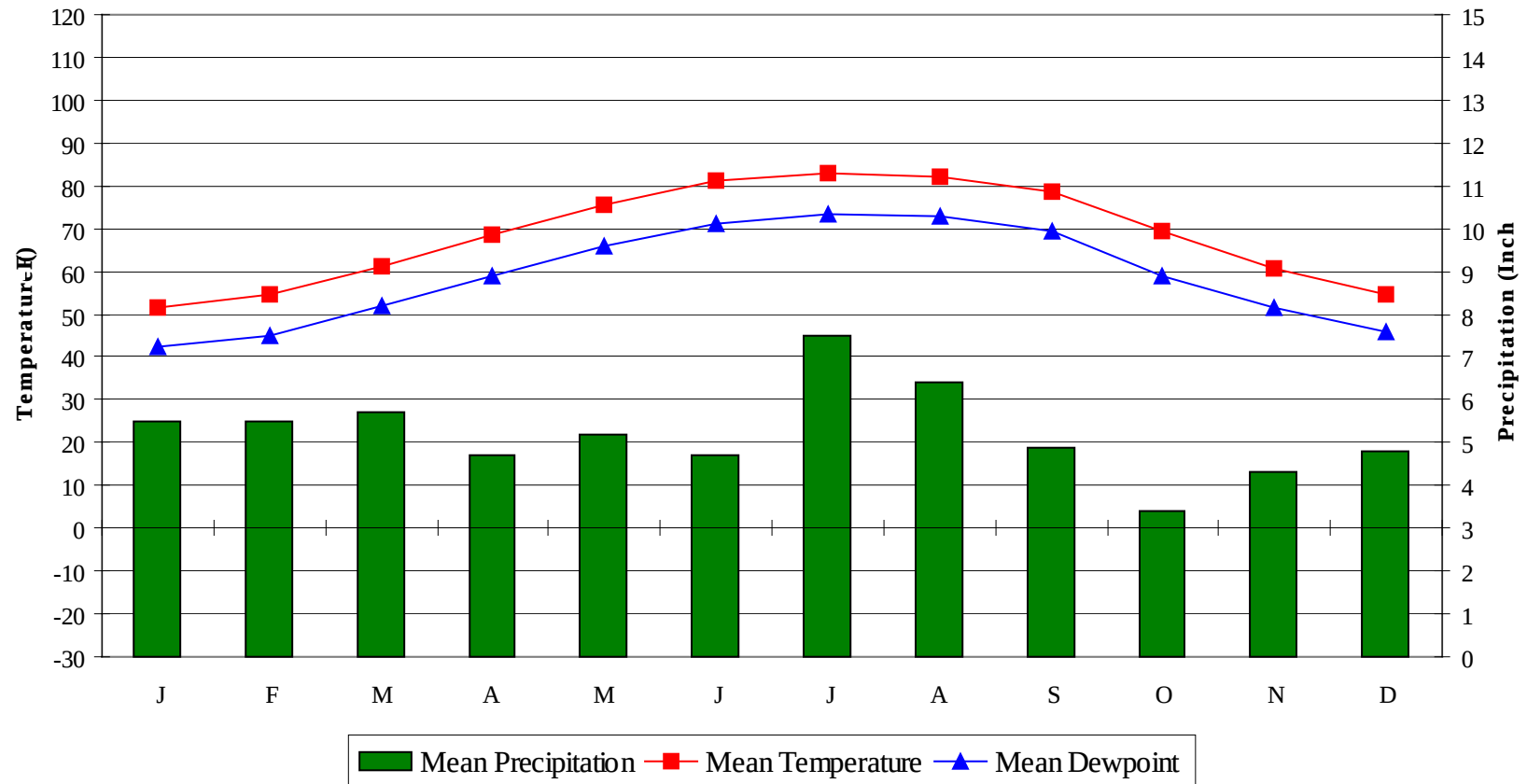
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
10	4.8	130	8.1 + 2.1
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
71.1	0	0	6

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

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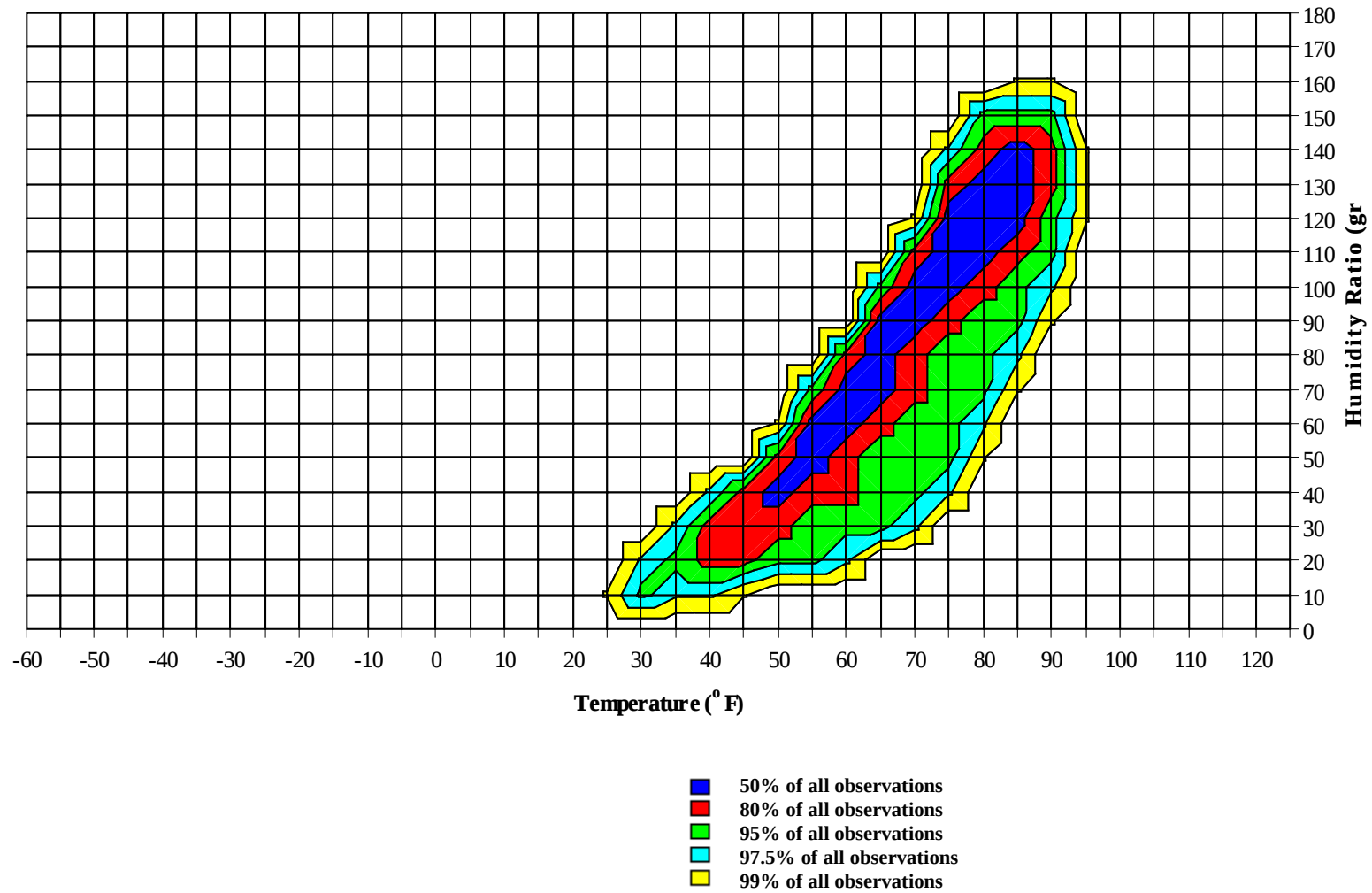
Average Annual Climate



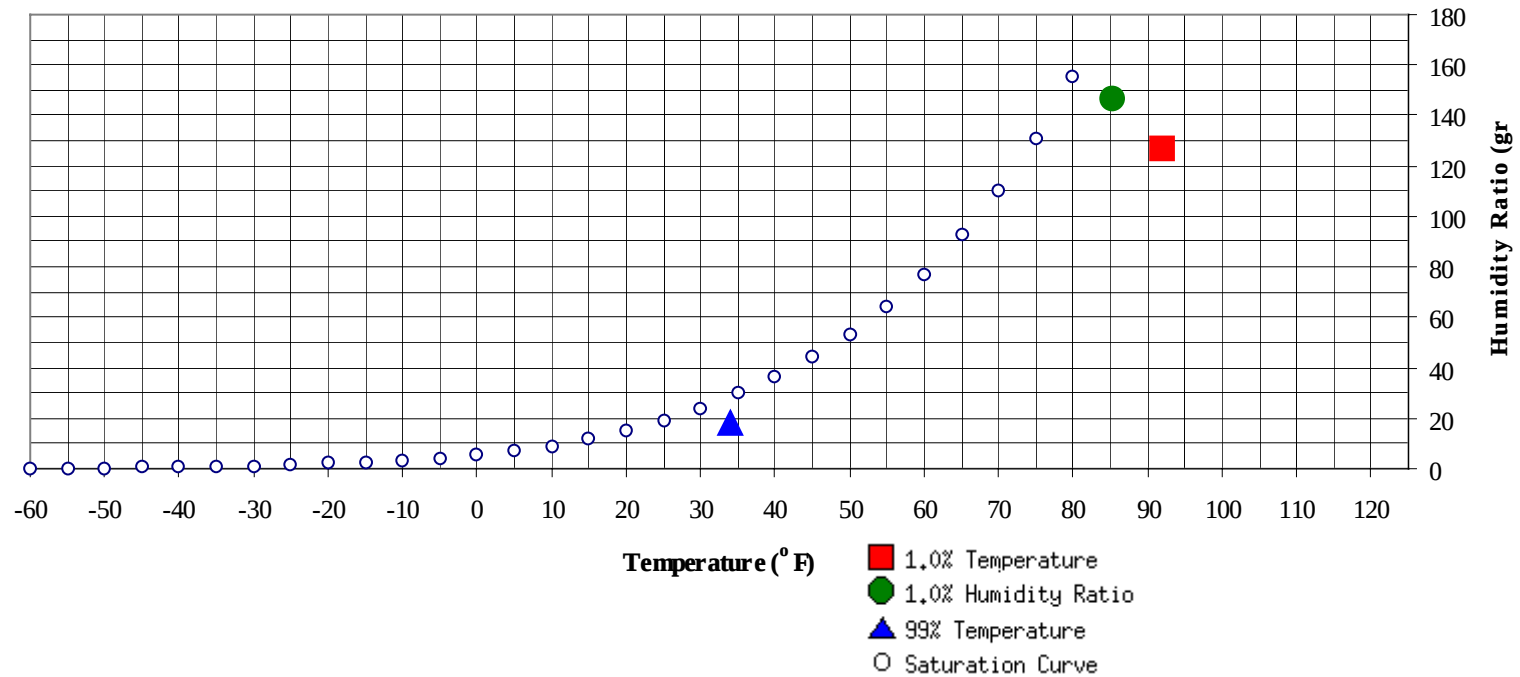
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Long Term Psychrometric Summary



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)
	34	18.1	10.9		147	85.2	79.9	78.1	43.5

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	92	127	78.9	42.1

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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															
80 / 84		0	0	0	69.5		0		0	61.0		0		0	70.5
75 / 79		1	0	1	66.9		1	0	1	66.4	1	19	4	24	68.6
70 / 74	1	11	2	14	66.0	1	18	4	23	64.8	18	53	30	101	66.5
65 / 69	13	36	20	68	62.9	16	43	26	86	62.5	41	67	60	167	62.4
60 / 64	31	45	40	116	58.6	34	51	47	132	58.1	51	48	66	165	57.5
55 / 59	30	45	42	117	52.7	33	38	47	118	52.5	42	31	43	116	52.0
50 / 54	35	38	43	116	47.5	33	30	40	103	47.2	38	17	25	80	47.2
45 / 49	35	32	39	106	42.3	34	21	30	85	42.3	28	8	13	48	42.5
40 / 44	40	22	35	98	37.8	32	14	20	66	37.8	19	4	5	28	38.2
35 / 39	33	12	18	63	33.1	24	6	9	38	33.1	6	1	2	9	33.2
30 / 34	21	5	7	33	28.4	11	2	2	15	28.6	2	0	1	3	28.5
25 / 29	6	1	2	9	23.8	4	0	0	4	23.9	1		0	1	24.5
20 / 24	2	0	0	2	19.5	0	0	0	0	18.7					
15 / 19	0	0	0	0	14.4	0			0	17.0					
10 / 14	0			0	11.3										

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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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															
95 / 99							0		0	75.1		2	0	2	80.3
90 / 94		0		0	71.0		3	0	3	76.1	0	34	4	38	78.0
85 / 89		2	0	2	72.7	0	31	4	35	74.5	9	114	42	166	76.6
80 / 84	0	26	4	30	71.5	14	105	44	163	72.9	75	68	112	255	75.0
75 / 79	17	74	37	129	69.8	71	77	107	256	70.7	89	18	64	170	72.7
70 / 74	51	76	80	207	66.1	85	25	65	175	67.5	55	4	17	76	69.3
65 / 69	58	39	65	162	62.0	46	6	22	73	62.9	10	0	1	11	63.1
60 / 64	45	15	32	92	56.8	23	1	4	28	57.7	1		0	1	59.0
55 / 59	38	6	15	58	52.1	8	0	1	9	53.4	0			0	53.4
50 / 54	22	2	5	28	47.5	1		0	1	47.2					
45 / 49	8	0	1	9	43.4										
40 / 44	2	0	0	2	38.3										
35 / 39	0			0	35.2										
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															

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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		0		0	81.0		0		0	84.0					
95 / 99		8	0	8	80.3		5	0	5	79.8		1		1	77.9
90 / 94	0	62	10	73	79.1	0	55	6	61	78.8		22	1	23	78.1
85 / 89	16	114	65	194	77.8	8	115	56	180	77.5	3	91	22	117	76.8
80 / 84	92	43	101	236	76.3	70	53	107	230	76.1	36	74	90	200	74.9
75 / 79	117	19	64	200	73.9	130	17	69	215	73.9	91	34	75	200	72.7
70 / 74	23	3	8	34	70.9	37	3	10	50	70.2	65	12	33	111	68.3
65 / 69	0		0	0	66.3	3	0	0	3	63.1	26	4	12	42	62.5
60 / 64						0			0	59.3	13	1	5	19	57.5
55 / 59											5	0	1	6	53.1
50 / 54											1		0	1	49.1
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															

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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		1		1	79.1										
85 / 89	1	11	0	12	74.5		0		0	76.0					
80 / 84	4	60	13	77	72.5	0	5	0	5	71.7					
75 / 79	22	73	53	148	69.6	3	30	5	38	70.2	0	4	1	5	69.8
70 / 74	44	56	65	164	65.9	27	57	37	122	67.2	5	30	7	42	67.2
65 / 69	52	29	52	134	61.6	35	49	49	133	62.4	26	44	37	108	63.7
60 / 64	50	12	38	100	57.1	34	40	44	117	56.6	34	46	42	122	58.1
55 / 59	42	5	20	66	52.3	37	29	38	104	51.6	29	44	40	114	52.2
50 / 54	23	1	6	31	47.9	34	18	34	85	47.2	32	35	43	110	46.8
45 / 49	7	0	1	8	43.4	34	10	23	68	42.9	37	22	38	97	42.5
40 / 44	2	0	0	2	39.4	24	2	8	34	38.4	41	14	23	77	37.9
35 / 39	0		0	0	33.3	10	0	2	12	34.3	25	6	11	42	33.5
30 / 34	0			0	31.0	2	0	0	2	29.0	13	2	3	18	28.3
25 / 29						0	0	0	0	24.0	4	1	1	6	23.7
20 / 24											1	1	1	3	18.3
15 / 19											1	0	0	1	14.1
10 / 14											0	0		0	11.7

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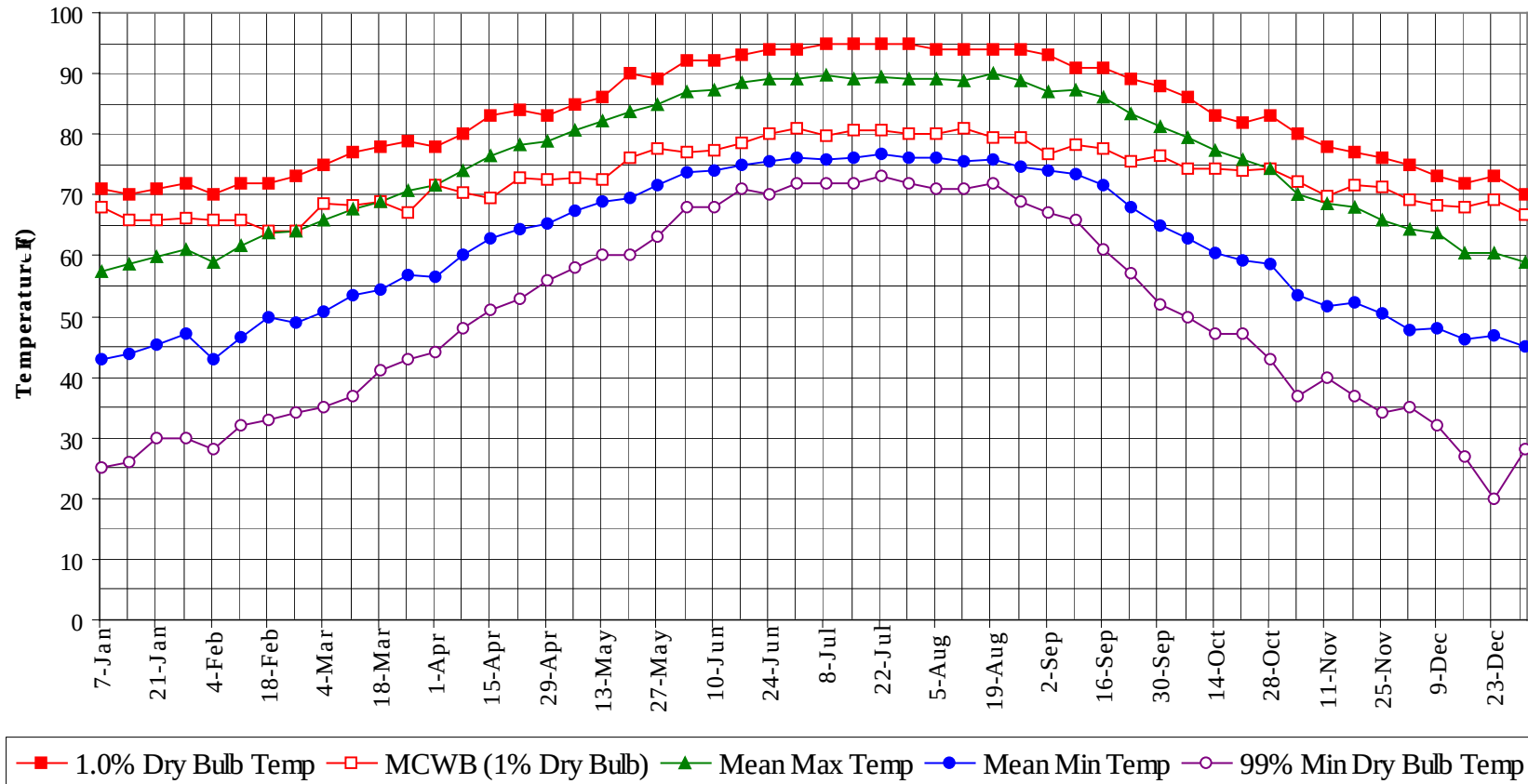
WMO No. 747686

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**Period of Record = 1967 to 1996**

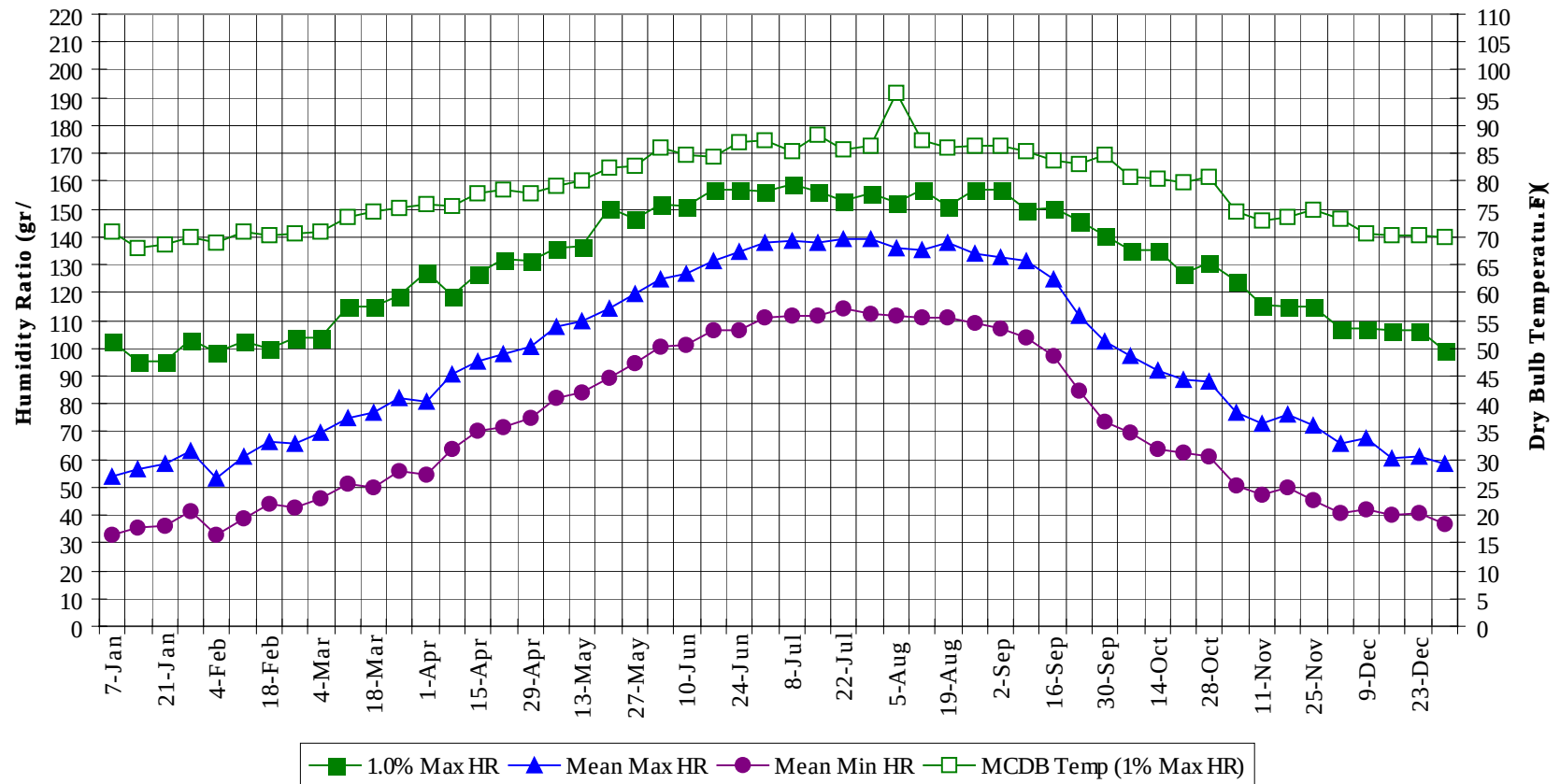
Annual Totals						
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	
	01 To 08	09 To 16	17 To 00			
100 / 104	0			0	81.6	
95 / 99	16			1	17	79.8
90 / 94	0	178	21	199	78.6	
85 / 89	37	481	192	710	77.0	
80 / 84	299	435	471	1205	74.9	
75 / 79	551	363	477	1391	71.9	
70 / 74	415	345	356	1116	67.2	
65 / 69	322	317	343	982	62.5	
60 / 64	314	261	318	893	57.6	
55 / 59	262	198	246	706	52.2	
50 / 54	214	141	197	553	47.2	
45 / 49	182	93	146	421	42.5	
40 / 44	157	56	91	305	38.0	
35 / 39	97	24	43	164	33.3	
30 / 34	48	8	13	70	28.5	
25 / 29	16	2	3	21	23.8	
20 / 24	3	1	1	5	18.9	
15 / 19	1	0	1	2	14.4	
10 / 14	1	0		1	11.5	

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



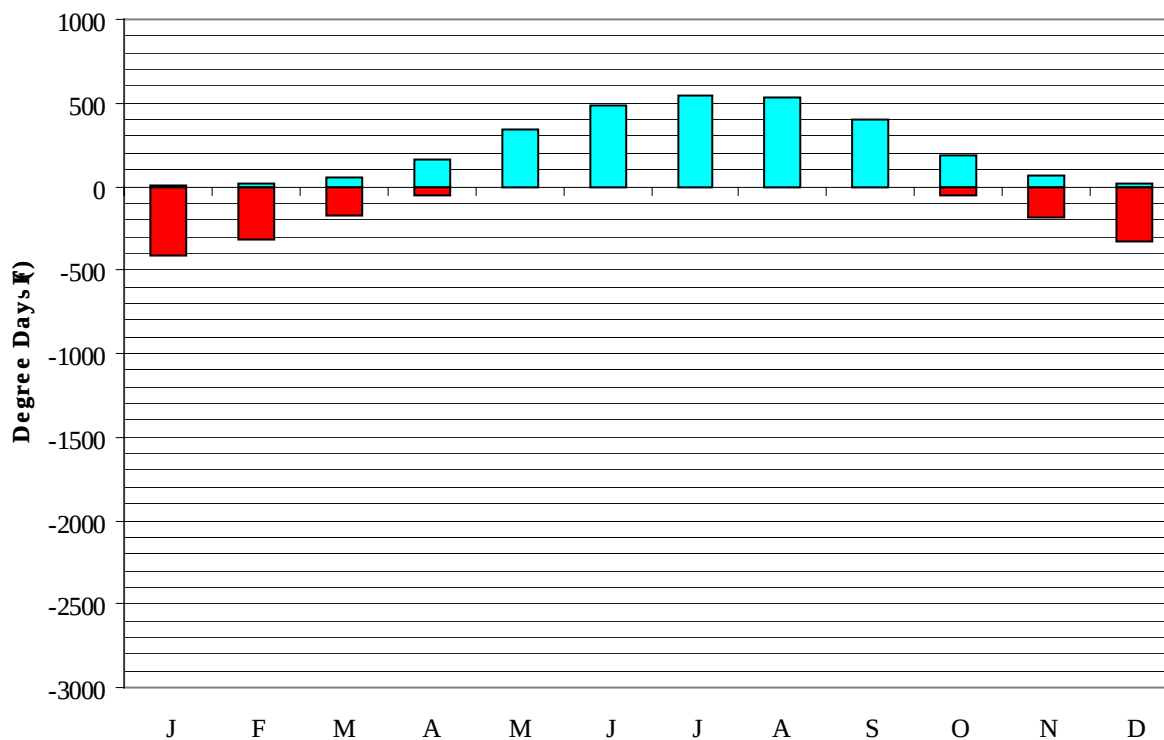
KEESLER AFB/BILOXI MS

WMO No. 747686

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	71.0	67.9	57.4	42.9	25.0	102.2	70.8	53.9	33.0
14-Jan	70.0	66.0	58.5	43.7	26.0	95.2	68.1	56.3	35.2
21-Jan	71.0	65.8	60.0	45.3	30.0	95.2	68.8	58.7	36.1
28-Jan	72.0	66.3	61.2	47.1	30.0	102.9	70.0	63.4	41.2
4-Feb	70.0	65.9	58.9	42.8	28.0	98.7	68.9	53.4	32.7
11-Feb	72.0	66.0	61.7	46.6	32.0	102.2	70.9	61.2	38.9
18-Feb	72.0	64.2	63.8	49.8	33.0	100.1	70.1	66.2	43.8
25-Feb	73.0	64.1	64.0	49.0	34.0	103.6	70.6	66.0	42.4
4-Mar	75.0	68.6	65.7	50.9	35.0	103.6	70.8	69.9	45.9
11-Mar	77.0	68.4	67.6	53.6	37.0	114.8	73.5	75.2	51.2
18-Mar	78.0	68.8	68.9	54.5	41.0	114.8	74.6	76.5	50.0
25-Mar	79.0	67.1	70.6	56.7	43.0	119.0	75.2	82.0	55.9
1-Apr	78.0	71.6	71.5	56.6	44.0	127.4	75.8	80.6	54.7
8-Apr	80.0	70.3	73.9	60.2	48.0	119.0	75.5	90.4	63.7
15-Apr	83.0	69.5	76.5	62.7	51.0	126.7	77.9	95.2	70.5
22-Apr	84.0	72.8	78.1	64.3	53.0	132.3	78.6	97.6	71.9
29-Apr	83.0	72.6	78.8	65.3	56.0	131.6	77.7	100.3	74.9
6-May	85.0	72.7	80.5	67.5	58.0	135.8	79.2	107.4	82.0
13-May	86.0	72.7	82.1	68.8	60.0	136.5	80.0	109.5	83.8
20-May	90.0	76.0	83.6	69.4	60.0	150.5	82.5	114.1	89.0
27-May	89.0	77.6	84.8	71.5	63.0	146.3	82.7	119.5	94.3
3-Jun	92.0	77.0	87.0	73.6	68.0	151.9	86.0	125.0	100.2
10-Jun	92.0	77.4	87.4	73.9	68.0	151.2	84.8	126.6	101.4
17-Jun	93.0	78.4	88.4	75.0	71.0	156.8	84.4	131.6	106.4
24-Jun	94.0	80.2	89.0	75.6	70.0	156.8	86.9	134.7	106.7
1-Jul	94.0	81.0	89.2	76.2	72.0	156.1	87.2	137.9	111.1
8-Jul	95.0	79.8	89.6	76.0	72.0	158.9	85.5	138.5	111.4
15-Jul	95.0	80.8	89.3	76.0	72.0	156.1	88.3	137.7	111.4
22-Jul	95.0	80.8	89.5	76.7	73.0	153.3	85.7	139.1	114.3
29-Jul	95.0	80.2	89.2	76.1	72.0	155.4	86.3	139.2	112.3
5-Aug	94.0	80.2	89.0	76.0	71.0	152.6	96.0	135.9	111.6
12-Aug	94.0	80.9	88.9	75.5	71.0	156.8	87.3	135.0	111.1
19-Aug	94.0	79.3	89.9	75.9	72.0	151.2	86.1	137.6	111.2
26-Aug	94.0	79.4	88.9	74.8	69.0	156.8	86.4	134.3	108.8
2-Sep	93.0	76.9	87.1	74.0	67.0	156.8	86.4	132.5	107.1
9-Sep	91.0	78.4	87.4	73.3	66.0	149.8	85.3	131.3	103.4
16-Sep	91.0	77.8	86.1	71.7	61.0	150.5	83.9	125.0	97.0
23-Sep	89.0	75.4	83.3	68.0	57.0	145.6	83.1	111.6	85.0
30-Sep	88.0	76.5	81.4	64.9	52.0	140.7	84.6	102.7	73.3
7-Oct	86.0	74.4	79.4	62.8	50.0	135.1	80.8	97.1	69.7
14-Oct	83.0	74.5	77.3	60.3	47.0	135.1	80.5	92.0	63.8
21-Oct	82.0	73.9	75.9	59.3	47.0	126.7	79.7	88.8	62.1
28-Oct	83.0	74.2	74.4	58.5	43.0	130.9	80.8	88.0	61.4
4-Nov	80.0	72.2	70.0	53.5	37.0	123.9	74.6	77.1	50.3
11-Nov	78.0	69.8	68.5	51.8	40.0	115.5	72.9	72.9	47.3
18-Nov	77.0	71.7	67.8	52.3	37.0	114.8	73.6	75.9	50.1
25-Nov	76.0	71.4	66.0	50.4	34.0	114.8	74.9	72.1	45.3
2-Dec	75.0	69.2	64.3	47.7	35.0	107.1	73.1	66.0	40.8
9-Dec	73.0	68.2	63.7	48.1	32.0	107.1	70.6	67.7	42.0
16-Dec	72.0	67.8	60.5	46.4	27.0	106.4	70.3	60.7	39.8
23-Dec	73.0	69.1	60.5	46.9	20.0	106.4	70.4	61.3	40.5
31-Dec	70.0	66.9	59.0	44.9	28.0	99.4	70.1	58.5	36.6

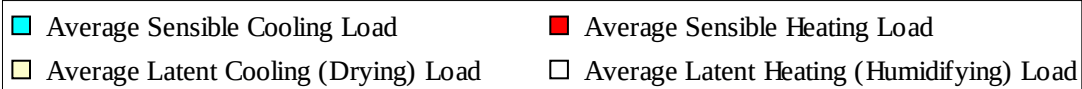
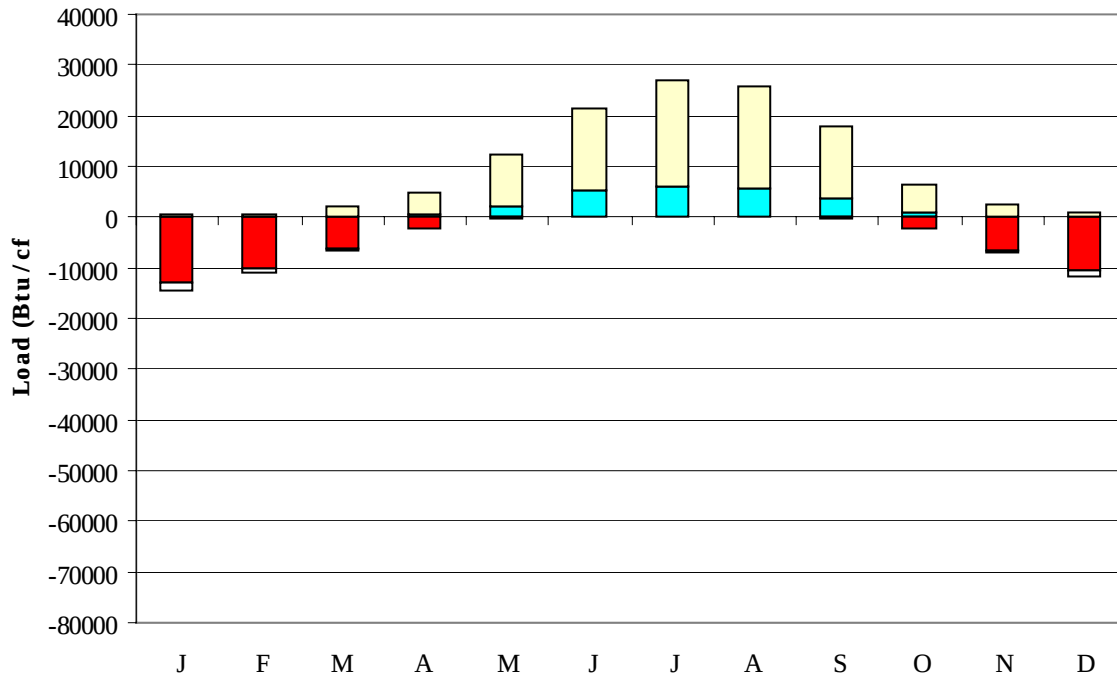
Degree Days, Heating and Cooling (Base 65°F)



■ Mean Cooling Degree Days
 ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	8	416
FEB	12	313
MAR	53	178
APR	163	51
MAY	338	6
JUN	490	0
JUL	549	0
AUG	530	0
SEP	402	4
OCT	185	54
NOV	66	191
DEC	22	328
ANN	2817	1541

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	1	-13012	449	-1355
FEB	1	-10081	634	-882
MAR	48	-6312	2019	-372
APR	465	-2095	4595	-56
MAY	2232	-356	10020	0
JUN	5186	-17	16180	0
JUL	6248	0	20665	0
AUG	5822	-3	19942	0
SEP	3759	-220	14269	0
OCT	967	-2198	5341	-24
NOV	86	-6497	2536	-329
DEC	3	-10541	1100	-974
ANN	24818	-51332	97750	-3992

Average Annual Solar Radiation – Nearest Available Site

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

City: MOBILE
 State: AL
 WBAN No: 13894
 Lat(N): 30.68
 Long(W): 88.25
 Elev(ft): 220

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.904
 Vert Gap: 0.652

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	850	1120	1400	1720	1860	1880	1770	1660	1500	1330	980	800	1410
	Std Dev	70	93	106	134	120	140	121	131	106	116	89	68	38
	Minimum	700	910	1170	1480	1570	1600	1520	1410	1300	1110	720	690	1330
	Maximum	1020	1280	1630	2080	2200	2160	2060	1970	1750	1580	1170	940	1490
	Diffuse	410	480	610	710	830	890	910	830	700	500	410	370	640
Clear Day	Global	1270	1590	1980	2320	2500	2550	2490	2320	2010	1640	1300	1160	1930
NORTH	Global	260	310	380	450	560	620	570	490	410	340	270	240	410
	Diffuse	260	310	380	440	500	530	510	470	410	340	270	240	390
Clear Day	Global	240	290	350	440	580	690	640	490	400	320	260	220	410
EAST	Global	520	660	790	940	1000	1030	990	970	870	790	600	500	810
	Diffuse	300	370	460	540	600	630	630	590	510	420	330	280	470
Clear Day	Global	860	1020	1200	1310	1340	1340	1320	1260	1150	1000	840	780	1120
SOUTH	Global	1060	1130	1020	850	670	590	610	730	940	1230	1180	1070	920
	Diffuse	390	450	500	520	530	520	530	540	540	490	430	380	490
Clear Day	Global	1990	1900	1570	1100	760	630	690	940	1340	1700	1880	1950	1370
WEST	Global	540	690	830	970	1000	960	880	850	820	800	610	510	790
	Diffuse	310	380	470	540	610	620	610	570	510	420	340	290	470
Clear Day	Global	860	1020	1200	1310	1340	1340	1320	1260	1150	1000	840	780	1120

Average Annual Solar Heat and Illumination – Nearest Available Site

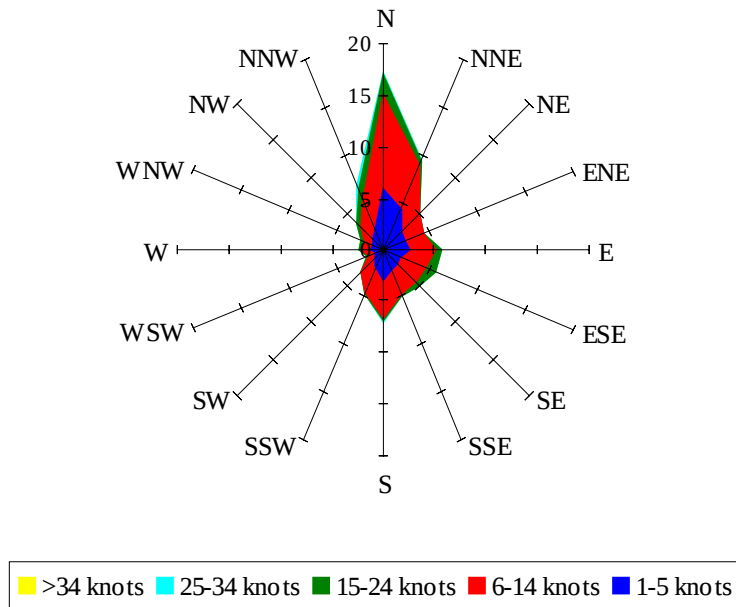
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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 NORTH	Unshaded	590	780	1010	1250	1360	1370	1280	1200	1080	950	680	540	1010
	Unshaded	180	210	260	310	360	400	370	330	280	230	190	160	270
	Shaded	150	190	230	270	310	340	320	290	250	210	160	140	240
EAST	Unshaded	360	460	560	660	710	730	700	690	620	560	420	340	570
	Shaded	310	390	460	550	580	590	570	560	520	480	360	290	470
SOUTH	Unshaded	780	800	680	520	400	370	380	450	610	860	860	790	630
	Shaded	730	650	380	310	320	320	320	320	330	610	780	760	490
WEST	Unshaded	370	490	590	690	710	680	620	600	580	560	430	350	550
	Shaded	320	410	490	570	580	550	500	490	480	480	370	300	460

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	50	83	91	70	27	47	86	103	93	62
	M.Cloudy	26	50	57	43	16	32	62	74	67	42
NORTH	M.Clear	11	15	16	14	8	23	17	17	18	21
	M.Cloudy	11	17	18	15	7	17	19	18	19	17
EAST	M.Clear	80	55	16	14	8	72	69	27	18	16
	M.Cloudy	25	31	18	15	7	38	47	25	19	15
SOUTH	M.Clear	40	66	72	56	22	13	22	31	27	16
	M.Cloudy	17	35	41	30	11	12	21	27	24	15
WEST	M.Clear	11	15	28	71	65	13	17	17	56	75
	M.Cloudy	11	17	23	36	22	12	19	18	41	42
M.Clear	(% hrs)	35	35	33	36	39	42	36	24	26	32

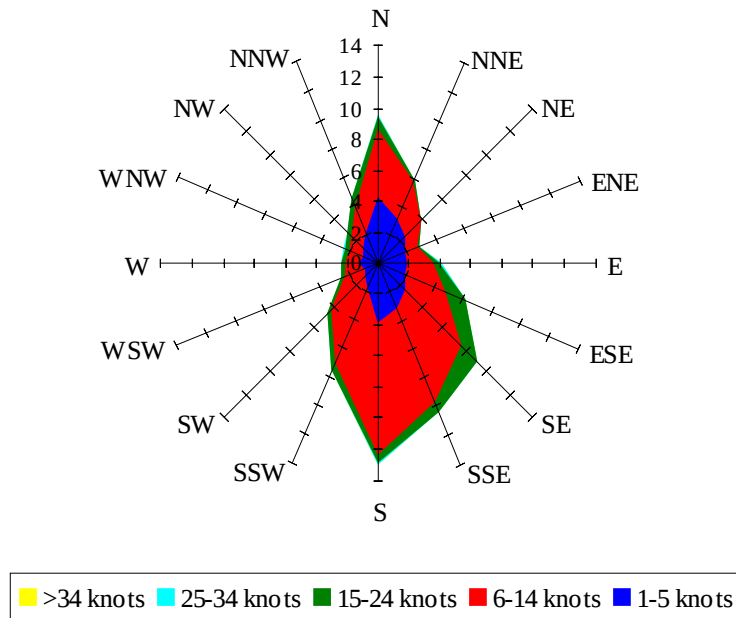
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	33	75	92	81	45	29	58	62	39	4
	M.Cloudy	21	49	62	55	30	15	31	35	22	3
NORTH	M.Clear	10	16	17	17	13	8	12	12	10	2
	M.Cloudy	9	17	19	18	12	7	12	14	9	2
EAST	M.Clear	65	68	25	17	13	58	41	12	10	2
	M.Cloudy	26	40	23	18	12	14	19	14	9	2
SOUTH	M.Clear	21	51	66	57	30	53	86	90	66	11
	M.Cloudy	12	31	41	36	18	14	29	35	22	3
WEST	M.Clear	10	16	17	58	70	8	12	29	58	17
	M.Cloudy	9	17	19	37	34	7	12	18	20	4
M.Clear	(% hrs)	47	43	33	32	35	37	36	34	34	40

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



Percent Calm = 12.12

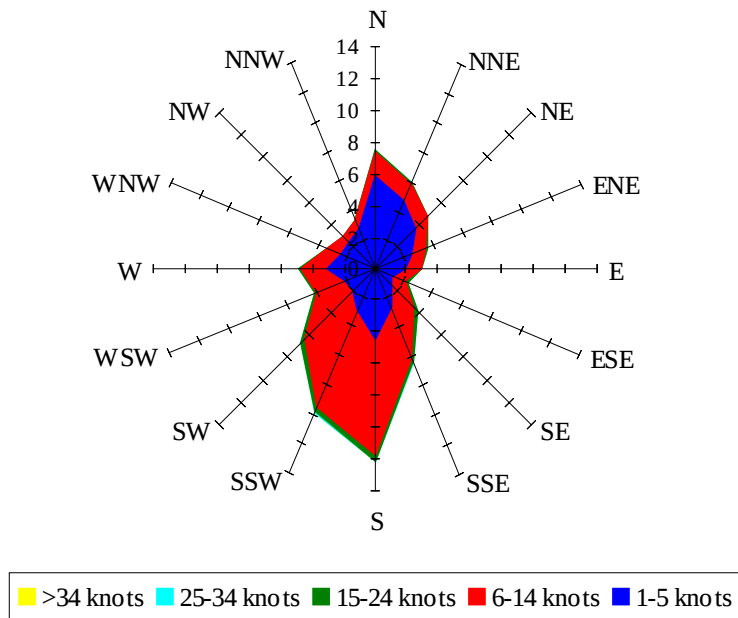
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 9.80

Wind Summary - June, July, and August

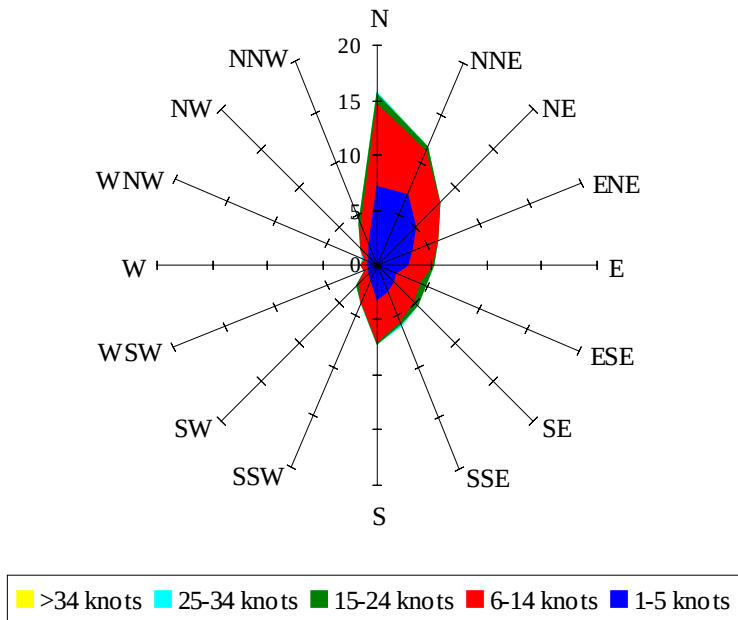
Labels of Percent Frequency on North Axis



Percent Calm = 16.34

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 14.38