

MACON/LEWIS WILSON GA

Latitude = 32.70 N

WMO No. 722170

Longitude = 83.65 W

Elevation = 361 feet

Period of Record = 1973 to 1996

Average Pressure = 29.66 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	100	77	103	8.8	W
0.4% Occurrence	97	76	105	8.7	W
1.0% Occurrence	94	76	106	8.5	W
2.0% Occurrence	92	75	107	8.4	W
Mean Daily Range	22	-	-	-	-
97.5% Occurrence	31	29	19	5.6	WNW
99.0% Occurrence	27	25	15	5.8	WNW
99.6% Occurrence	23	21	12	6.3	NW
Median of Extreme Lows	15	13	8	8.4	NW
	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	81	93	137	7.9	W
0.4% Occurrence	79	90	129	7.6	W
1.0% Occurrence	78	89	126	7.5	W
2.0% Occurrence	77	87	123	7.4	W
	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	148	86	0.97	6.3	S
0.4% Occurrence	137	83	0.90	6.3	W
1.0% Occurrence	133	82	0.88	6.4	W
2.0% Occurrence	129	81	0.85	6.4	W
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		157	1482	1481	3136

Other Site Data

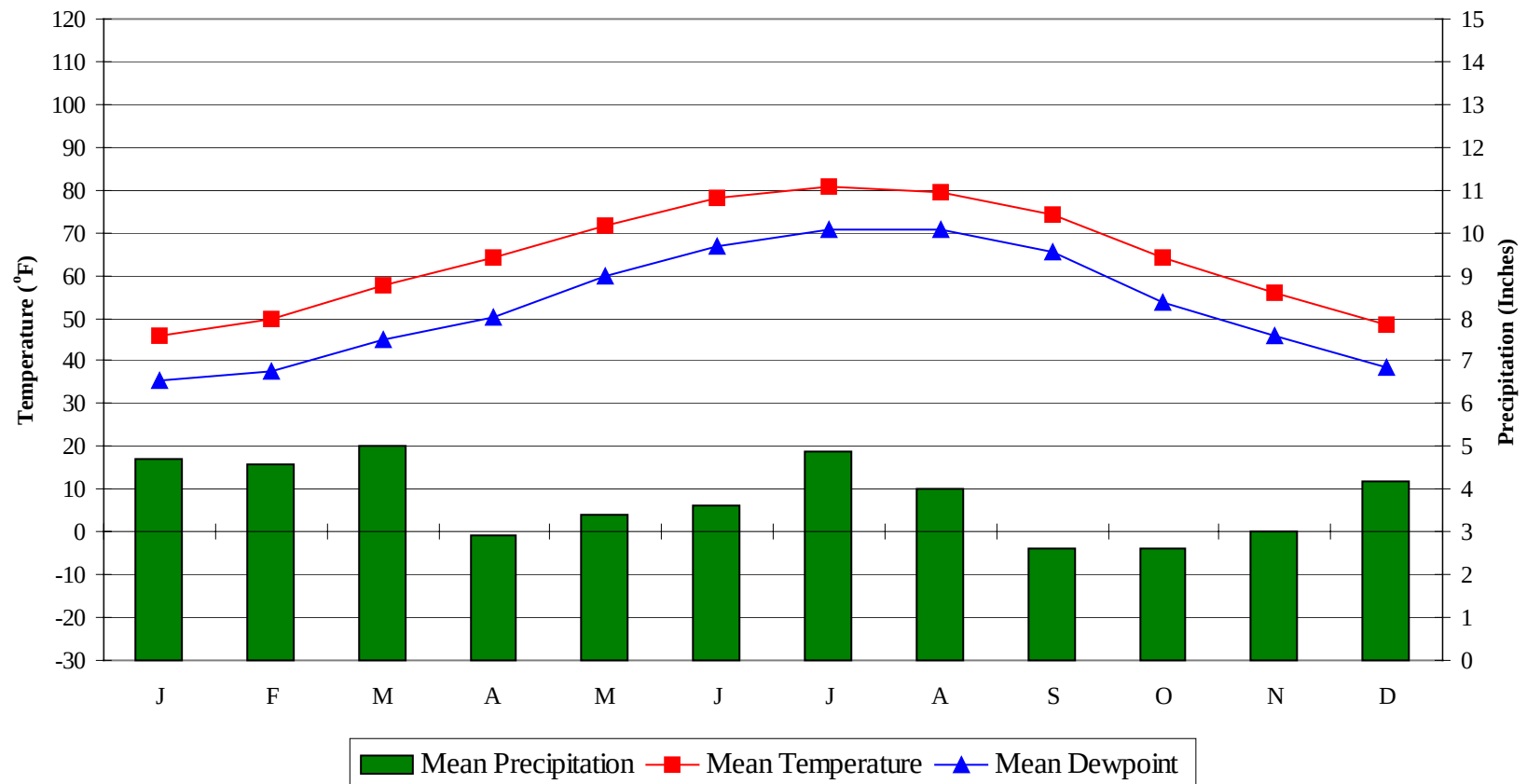
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
11	4.0	90	5.4 + 1.6
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
66.6	0	7	30

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

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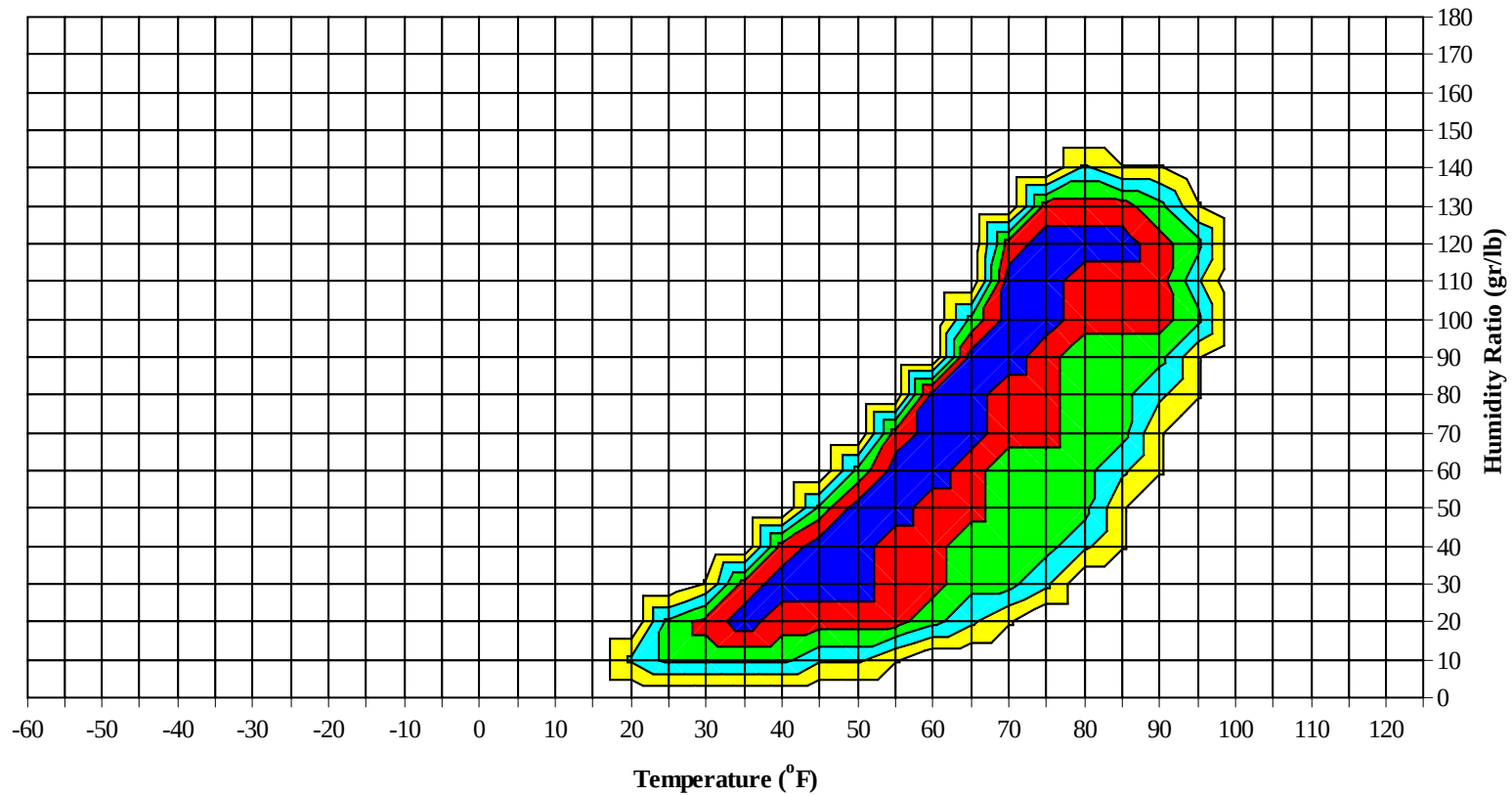
Average Annual Climate



MACON/LEWIS WILSON GA

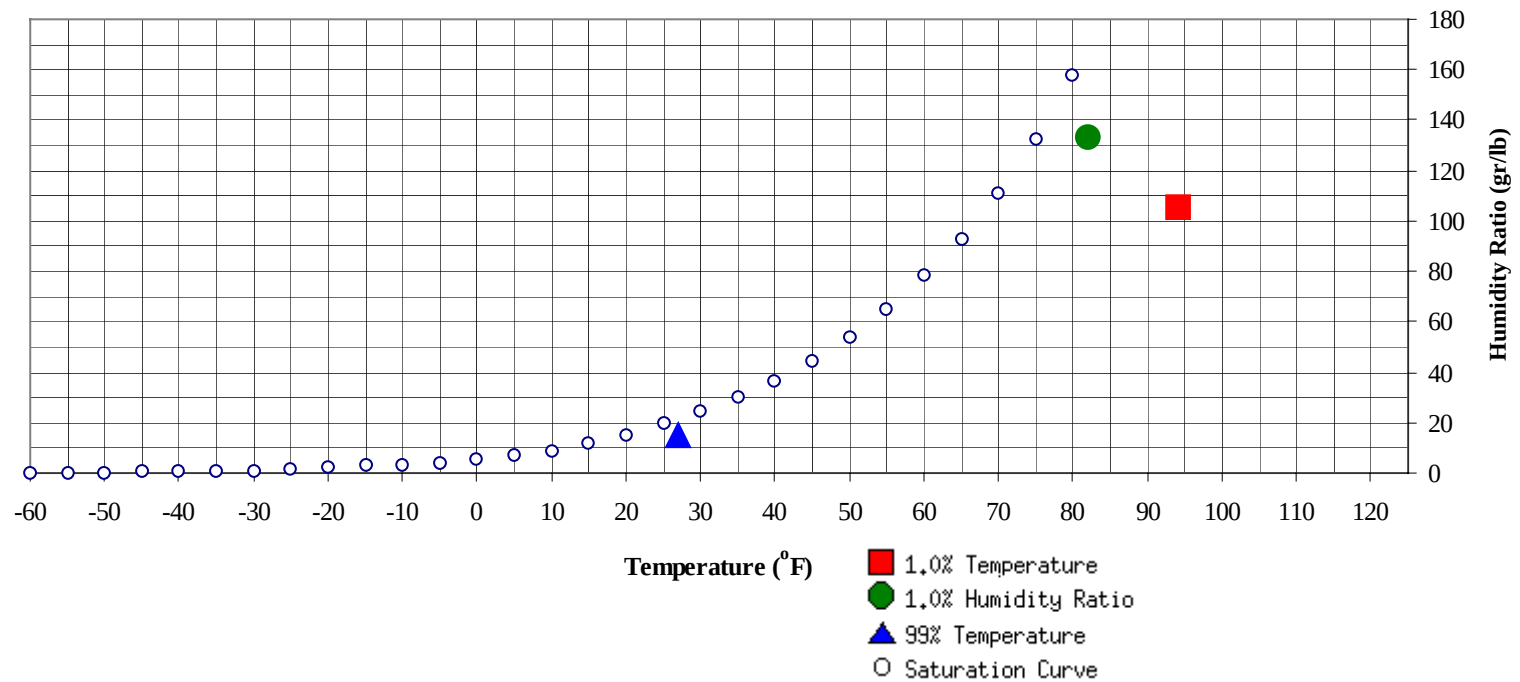
WMO No. 722170

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

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	27	15	8.8		133	82.1	76.9	75	40.6

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	94	105.7	75.7	39.2

MACON/LEWIS WILSON GA

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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		
105 / 109															
100 / 104															
95 / 99															
90 / 94												0		0	68.0
85 / 89											1	0		1	65.9
80 / 84							1	0	1	65.1	11	4		15	64.7
75 / 79	0	1	0	1	64.9		6	2	8	62.4	0	24	13	37	62.5
70 / 74	0	7	2	9	61.6	0	17	7	24	59.8	2	37	25	64	60.7
65 / 69	3	16	9	28	58.9	4	27	20	51	57.9	14	42	40	96	58.7
60 / 64	12	28	22	62	56.4	17	33	31	81	55.8	32	42	47	121	56.0
55 / 59	15	33	28	76	51.5	21	30	32	83	51.1	39	32	41	112	52.0
50 / 54	25	42	40	107	47.2	25	32	35	92	46.3	44	27	34	105	47.7
45 / 49	37	45	49	131	42.9	32	31	36	99	42.3	43	17	24	84	43.1
40 / 44	36	34	36	106	38.0	37	24	28	89	38.0	34	8	13	55	38.8
35 / 39	38	22	30	90	33.6	31	13	18	62	33.7	23	3	5	31	34.3
30 / 34	38	12	20	70	29.2	28	6	10	44	29.1	13	1	1	15	29.9
25 / 29	27	5	8	40	24.9	18	3	4	25	25.0	3	1	1	5	25.0
20 / 24	13	2	2	17	20.3	9	1	1	11	20.6	1	0	0	1	19.8
15 / 19	4	1	1	6	15.6	2	0	0	2	15.6	0	0	0	0	15.1
10 / 14	1	0	0	1	10.5	0			0	11.5	0			0	13.0
5 / 9	0	0	0	0	5.6										
0 / 4	0	0	0	0	0.8										
-5 / -1	0	0		0	-3.7										
-10 / -6	0			0	-6.0										

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.

MACON/LEWIS WILSON GA

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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		
105 / 109															
100 / 104												1	1	2	76.6
95 / 99		0		0	67.0		0	0	0	72.0		13	4	17	75.3
90 / 94		1	0	1	65.6		12	4	16	72.0		41	16	57	73.9
85 / 89		13	4	17	66.6		47	17	64	69.9	0	76	34	110	73.1
80 / 84		32	14	46	65.7	0	62	32	94	68.2	4	58	46	108	72.1
75 / 79		42	25	67	63.5	5	57	48	110	66.7	40	34	66	140	71.4
70 / 74	5	50	40	95	61.5	43	44	66	152	66.0	119	14	57	190	69.5
65 / 69	32	44	53	129	59.9	83	19	47	150	63.5	56	2	14	72	65.0
60 / 64	49	31	44	124	56.7	55	6	22	83	58.9	16	0	2	18	59.7
55 / 59	50	14	30	94	52.5	35	1	9	45	54.4	5		0	5	55.5
50 / 54	42	8	17	67	48.2	20	1	2	23	50.1	1			1	52.4
45 / 49	33	3	9	45	44.1	7	0	0	7	46.4					
40 / 44	20	1	3	24	40.0	1			1	42.8					
35 / 39	8	0	0	8	35.2										
30 / 34	2			2	31.1										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															

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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		
105 / 109		0	0	0	77.4										
100 / 104		4	1	5	77.0		2	0	2	77.7					
95 / 99		26	9	35	76.6		14	4	18	76.9		3	1	4	74.9
90 / 94		64	24	88	76.2		56	18	75	76.3		26	6	32	74.8
85 / 89	0	67	36	103	75.6		75	36	111	75.5	0	55	19	74	73.7
80 / 84	13	52	58	123	74.6	4	58	54	117	74.6	0	59	33	92	72.1
75 / 79	88	26	79	194	73.2	70	32	85	187	73.4	17	47	64	128	71.2
70 / 74	132	9	39	180	70.8	144	9	47	201	70.9	102	28	67	197	69.4
65 / 69	13	1	1	15	66.4	26	1	3	30	65.8	61	14	29	104	64.6
60 / 64	2		0	2	60.9	4	0	0	4	61.1	30	6	13	49	59.8
55 / 59	0			0	58.0	0	0	0	0	57.5	19	2	7	28	55.2
50 / 54											9	0	1	10	50.9
45 / 49											3		0	3	46.8
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															

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MACON/LEWIS WILSON GA

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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		
105 / 109															
100 / 104															
95 / 99															
90 / 94		2	0	2	73.6										
85 / 89		13	2	15	70.2		0		0	66.8					
80 / 84	0	37	10	47	67.7		6	1	7	66.9		0		0	70.3
75 / 79	1	47	22	70	65.7		24	5	29	65.1		5	1	6	66.7
70 / 74	16	54	45	115	64.0	3	38	22	64	63.0	2	15	6	23	64.0
65 / 69	37	42	51	130	61.5	21	42	34	97	60.9	6	23	15	44	60.6
60 / 64	46	29	47	122	57.8	25	39	40	105	56.7	13	33	24	70	56.3
55 / 59	43	15	34	92	53.6	33	36	37	107	52.0	22	37	32	91	51.7
50 / 54	39	7	21	67	49.2	33	27	36	97	47.3	27	41	41	109	47.3
45 / 49	33	2	13	48	44.9	33	16	31	80	43.3	38	40	50	128	42.8
40 / 44	24	0	3	27	40.6	33	8	20	61	39.1	34	25	33	92	38.2
35 / 39	9		1	10	36.5	29	2	10	41	34.8	35	16	25	76	33.9
30 / 34	1		0	1	31.9	24	0	3	27	30.9	40	8	15	63	29.6
25 / 29	0			0	28.3	5	0	0	5	26.7	22	2	5	29	25.1
20 / 24						0	0		0	22.4	8	1	1	10	20.5
15 / 19											2	0	1	3	15.7
10 / 14											1	0	0	1	9.9
5 / 9											0	0		0	5.4
0 / 4															
-5 / -1															
-10 / -6															

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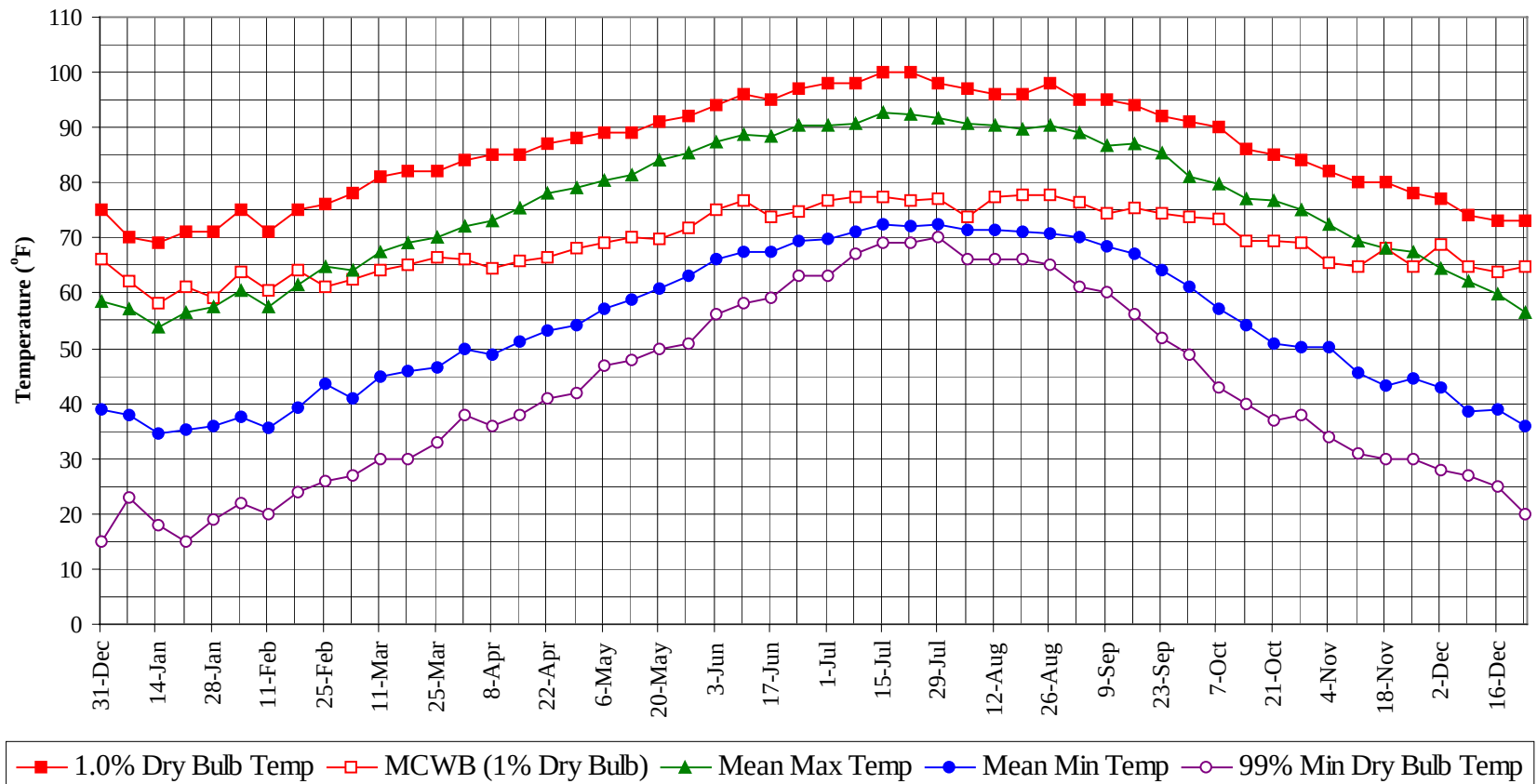
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

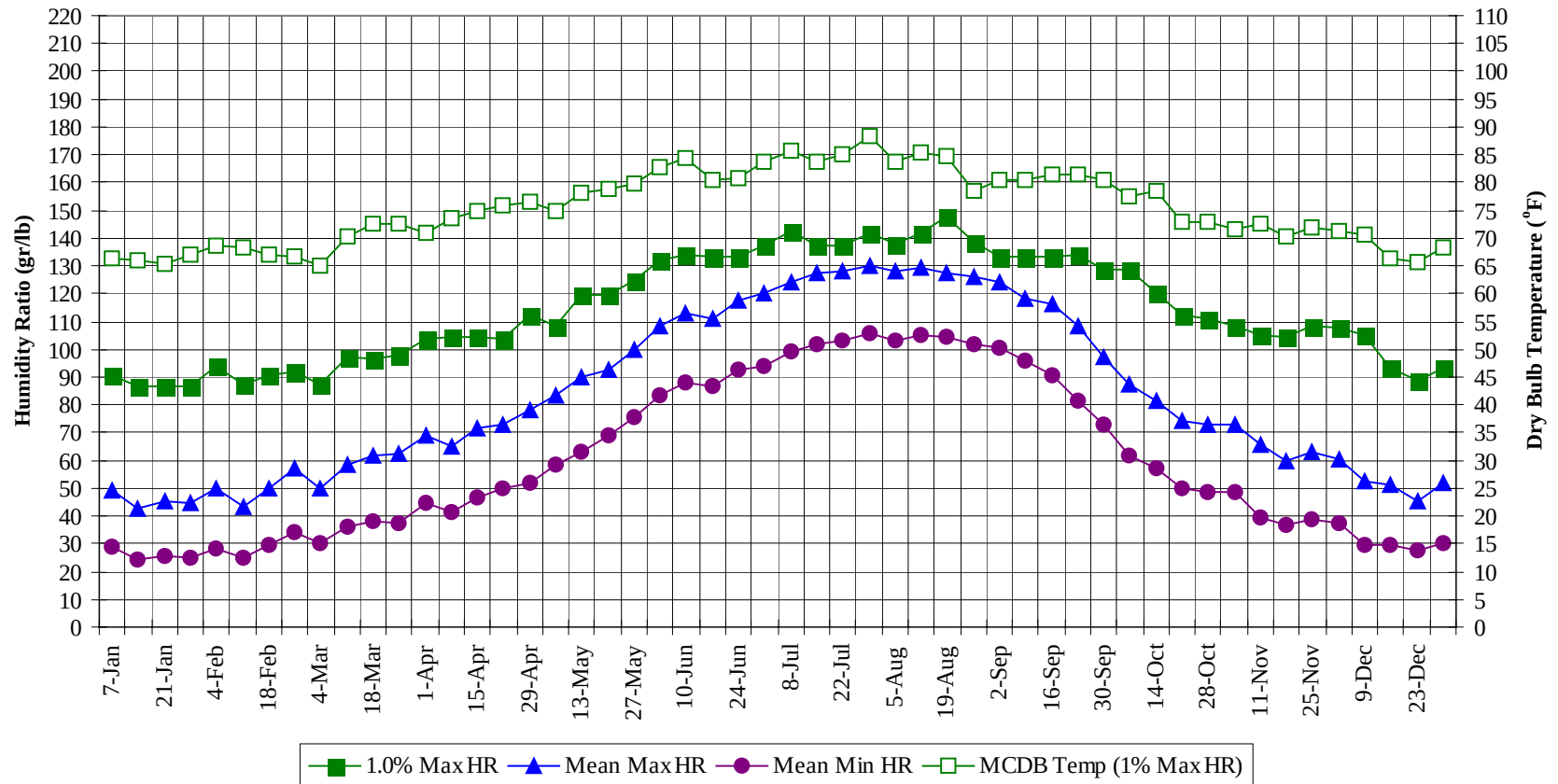
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		0	0	0	77.4
100 / 104		7	2	9	77.1
95 / 99		56	16	72	76.3
90 / 94		202	68	270	75.3
85 / 89	0	343	148	491	73.5
80 / 84	21	375	251	647	71.4
75 / 79	220	346	408	975	70.0
70 / 74	563	321	421	1306	67.3
65 / 69	354	274	316	945	61.7
60 / 64	299	249	293	841	57.1
55 / 59	281	202	252	735	52.4
50 / 54	264	187	228	679	47.7
45 / 49	260	155	214	629	43.1
40 / 44	220	100	137	457	38.6
35 / 39	173	58	89	321	34.1
30 / 34	147	28	50	225	29.6
25 / 29	76	11	18	105	25.0
20 / 24	30	4	4	38	20.5
15 / 19	8	1	2	11	15.6
10 / 14	3	0	1	4	10.5
5 / 9	1	0	0	1	5.6
0 / 4	0	0	0	0	0.8
-5 / -1	0	0		0	-3.7
-10 / -6	0			0	-6.0
	</				

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.

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

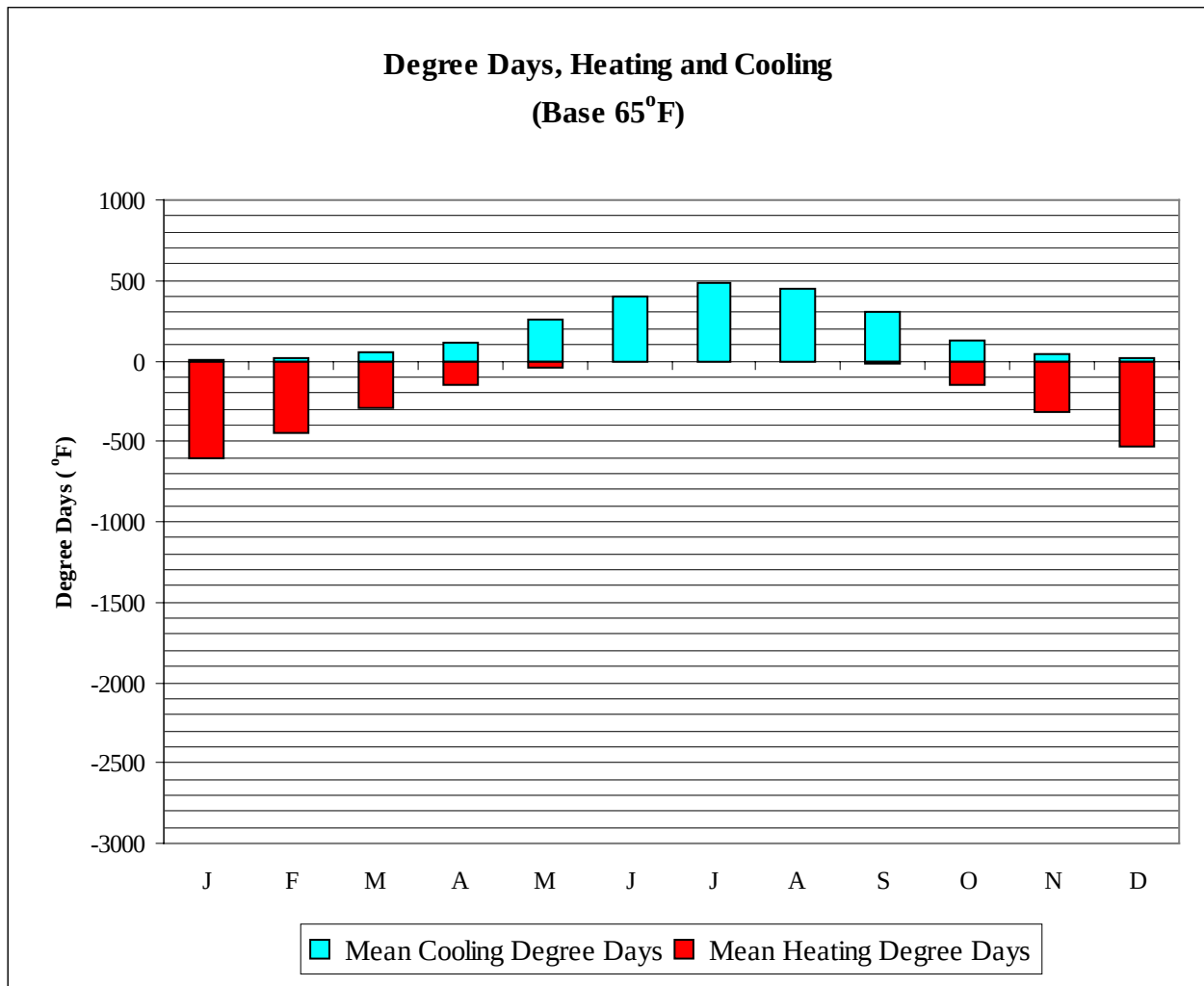


MACON/LEWIS WILSON GA

WMO No. 722170

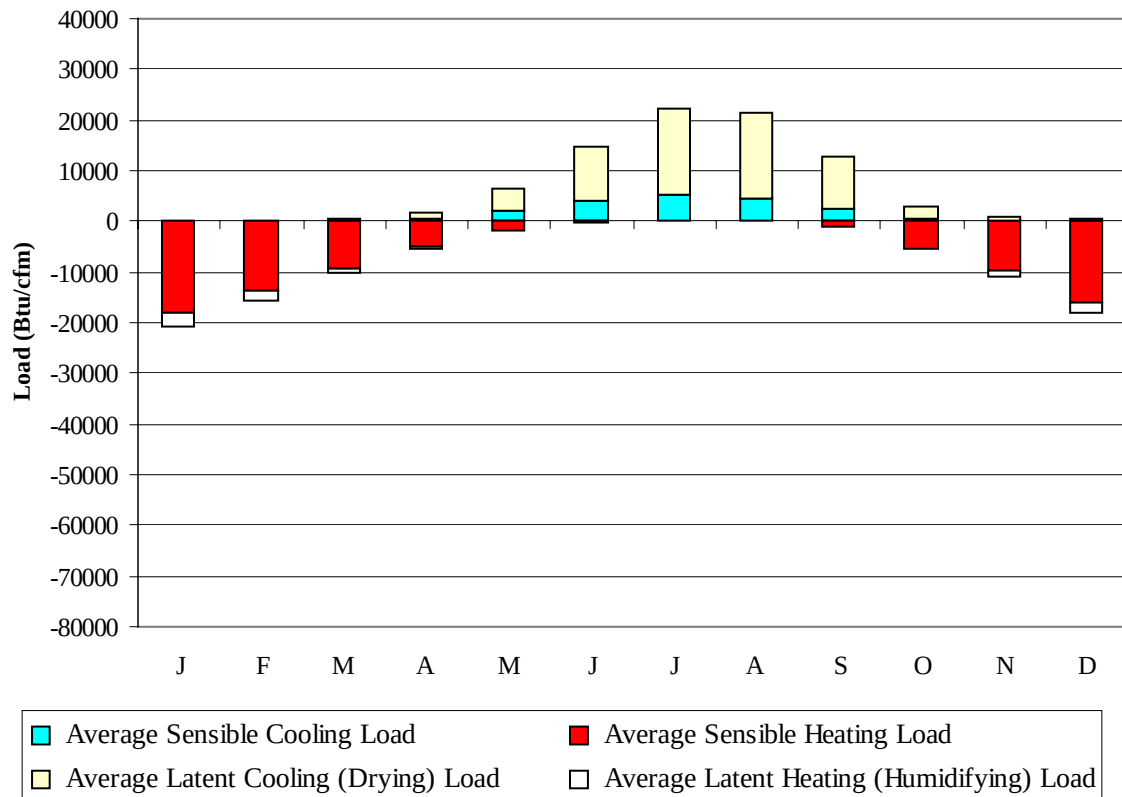
Long Term Dry Bulb Temperature and Humidity Summary

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	70.0	62.3	57.0	37.9	23.0	90.3	66.3	49.3	29.1
14-Jan	69.0	58.2	53.7	34.4	18.0	86.8	66.0	43.0	24.4
21-Jan	71.0	61.2	56.4	35.3	15.0	86.8	65.4	45.0	25.9
28-Jan	71.0	59.1	57.3	35.8	19.0	86.8	66.9	44.4	25.2
4-Feb	75.0	63.9	60.5	37.6	22.0	93.8	68.7	50.2	28.4
11-Feb	71.0	60.6	57.5	35.7	20.0	87.5	68.3	43.4	24.9
18-Feb	75.0	64.2	61.6	39.1	24.0	90.3	66.9	49.9	29.8
25-Feb	76.0	61.1	64.9	43.5	26.0	91.7	66.6	57.0	33.9
4-Mar	78.0	62.5	64.1	40.9	27.0	87.5	65.1	50.1	30.5
11-Mar	81.0	64.1	67.5	44.7	30.0	97.3	70.4	58.6	36.2
18-Mar	82.0	65.2	69.3	46.0	30.0	96.6	72.7	61.5	38.1
25-Mar	82.0	66.4	70.2	46.4	33.0	98.0	72.5	62.1	37.2
1-Apr	84.0	66.1	72.0	49.7	38.0	103.6	71.0	68.6	44.5
8-Apr	85.0	64.4	73.0	48.7	36.0	104.3	73.7	65.2	41.1
15-Apr	85.0	65.8	75.4	51.2	38.0	104.3	75.0	71.9	46.7
22-Apr	87.0	66.5	77.9	53.0	41.0	103.6	75.7	73.1	50.1
29-Apr	88.0	68.3	79.1	54.2	42.0	112.0	76.4	77.9	51.6
6-May	89.0	69.2	80.6	57.0	47.0	108.5	74.8	83.1	58.4
13-May	89.0	70.0	81.4	59.0	48.0	119.7	78.2	90.2	63.4
20-May	91.0	69.8	84.1	60.7	50.0	119.7	78.8	92.3	69.1
27-May	92.0	71.6	85.3	63.2	51.0	124.6	79.7	100.1	75.7
3-Jun	94.0	75.3	87.3	66.2	56.0	132.3	82.8	108.3	83.5
10-Jun	96.0	76.7	88.7	67.6	58.0	133.7	84.4	112.9	87.7
17-Jun	95.0	73.8	88.6	67.6	59.0	133.0	80.3	110.8	86.8
24-Jun	97.0	74.9	90.4	69.4	63.0	133.0	80.8	117.3	92.3
1-Jul	98.0	76.6	90.3	69.8	63.0	137.2	83.7	120.3	94.1
8-Jul	98.0	77.5	90.7	71.2	67.0	142.8	85.6	124.1	99.3
15-Jul	100.0	77.6	92.7	72.3	69.0	137.2	83.7	127.1	102.1
22-Jul	100.0	76.7	92.3	72.3	69.0	137.2	85.1	127.9	103.1
29-Jul	98.0	77.1	91.6	72.5	70.0	142.1	88.4	129.8	105.5
5-Aug	97.0	73.6	90.9	71.6	66.0	137.9	83.8	127.9	102.9
12-Aug	96.0	77.3	90.4	71.5	66.0	142.1	85.5	129.1	105.3
19-Aug	96.0	77.8	89.9	71.0	66.0	147.7	84.6	127.2	104.3
26-Aug	98.0	77.7	90.5	70.8	65.0	138.6	78.5	126.2	101.6
2-Sep	95.0	76.5	89.1	70.2	61.0	133.0	80.4	124.2	100.5
9-Sep	95.0	74.5	86.7	68.5	60.0	133.0	80.3	118.0	95.8
16-Sep	94.0	75.5	87.1	67.2	56.0	133.0	81.5	116.3	90.9
23-Sep	92.0	74.4	85.4	64.1	52.0	133.7	81.4	108.4	81.6
30-Sep	91.0	73.6	81.2	61.2	49.0	128.8	80.4	97.3	72.8
7-Oct	90.0	73.3	79.9	57.1	43.0	128.8	77.6	87.3	62.0
14-Oct	86.0	69.6	77.1	54.3	40.0	120.4	78.5	81.5	57.1
21-Oct	85.0	69.3	76.6	50.9	37.0	112.0	72.9	74.2	50.0
28-Oct	84.0	69.1	75.1	50.1	38.0	111.3	73.0	73.2	48.6
4-Nov	82.0	65.6	72.5	50.1	34.0	108.5	71.6	73.0	48.7
11-Nov	80.0	64.7	69.6	45.6	31.0	105.0	72.4	65.4	39.7
18-Nov	80.0	68.1	68.1	43.1	30.0	104.3	70.2	59.6	36.7
25-Nov	78.0	64.9	67.6	44.6	30.0	108.5	72.1	62.9	38.8
2-Dec	77.0	68.8	64.4	42.7	28.0	107.8	71.2	60.6	37.2
9-Dec	74.0	64.9	62.2	38.7	27.0	105.0	70.7	52.3	29.7
16-Dec	73.0	63.8	59.9	38.9	25.0	93.1	66.5	51.2	29.7
23-Dec	73.0	64.9	56.6	35.9	20.0	88.9	65.6	45.1	27.3
31-Dec	75.0	66.2	58.5	39.0	15.0	93.1	68.3	51.7	30.4



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	5	602
FEB	15	446
MAR	55	290
APR	119	148
MAY	252	41
JUN	396	4
JUL	486	0
AUG	449	1
SEP	304	20
OCT	124	154
NOV	44	312
DEC	12	530
ANN	2261	2548

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	3	-17932	89	-2789
FEB	17	-13559	174	-2130
MAR	196	-9370	449	-929
APR	690	-5182	1093	-259
MAY	1971	-1729	4374	-3
JUN	3891	-226	10866	0
JUL	5165	-14	17011	0
AUG	4440	-61	16921	0
SEP	2519	-919	10242	-2
OCT	670	-5353	2362	-116
NOV	99	-9924	944	-887
DEC	8	-15978	324	-2170
ANN	19669	-80247	64849	-9285

Average Annual Solar Radiation – Nearest Available Site

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

City: MACON
 State: GA
 WBAN No: 3813
 Lat(N): 32.7
 Long(W): 83.65
 Elev(ft): 361

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.331
 Vert Gap: 0.261

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	840	1110	1440	1810	1970	2010	1900	1780	1520	1310	960	780	1460
	Std Dev	64	101	119	108	133	137	183	116	112	122	75	68	42
	Minimum	700	930	1230	1610	1640	1730	1390	1580	1280	1080	750	650	1360
	Maximum	980	1350	1640	2060	2270	2320	2230	1990	1790	1560	1090	910	1540
	Diffuse	370	460	580	690	830	900	910	830	710	490	390	340	630
Clear Day	Global	1200	1530	1940	2320	2520	2580	2510	2310	1990	1580	1230	1080	1900
NORTH	Global	240	300	380	460	560	630	590	500	420	330	260	220	410
	Diffuse	240	300	380	440	510	540	520	480	420	330	260	220	390
Clear Day	Global	230	280	350	440	580	690	630	490	390	320	250	210	410
EAST	Global	520	680	840	1010	1050	1070	1020	960	860	780	600	490	820
	Diffuse	290	360	460	550	610	640	630	590	520	410	320	270	470
Clear Day	Global	830	1010	1190	1330	1360	1360	1330	1270	1150	980	820	740	1110
SOUTH	Global	1130	1200	1120	940	740	650	670	820	1000	1270	1240	1140	990
	Diffuse	380	440	500	540	550	550	550	570	560	500	420	370	490
Clear Day	Global	2000	1940	1640	1180	830	700	750	1010	1410	1740	1900	1940	1420
WEST	Global	550	700	860	1020	1050	1030	970	960	870	800	610	510	830
	Diffuse	300	370	470	560	620	650	630	600	520	420	320	270	480
Clear Day	Global	830	1010	1190	1330	1360	1360	1330	1270	1150	980	820	740	1110

Average Annual Solar Heat and Illumination – Nearest Available Site

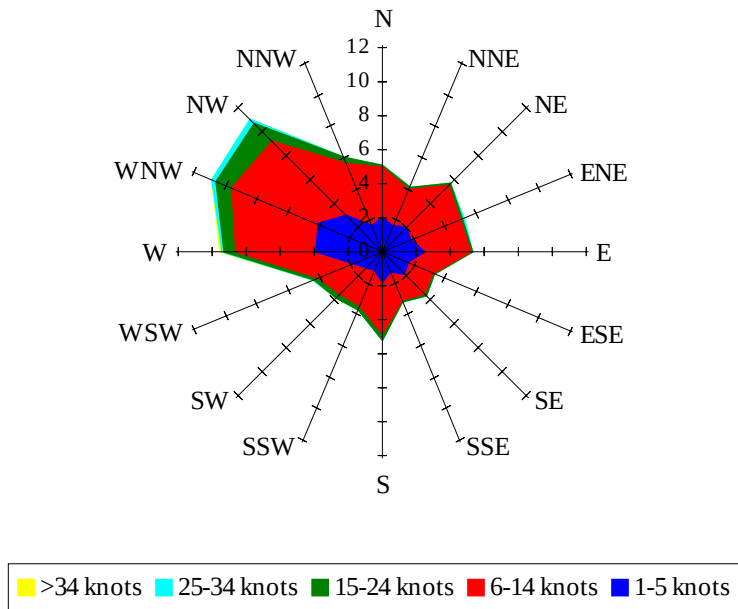
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	570	780	1030	1320	1430	1460	1380	1300	1100	930	660	520	1040
NORTH	Unshaded	170	210	260	310	370	400	380	340	290	230	180	150	280
	Shaded	160	190	240	290	340	380	360	320	270	220	170	140	260
EAST	Unshaded	360	480	590	720	750	760	720	680	610	550	410	340	580
	Shaded	340	440	550	660	680	690	650	630	560	510	390	320	540
SOUTH	Unshaded	840	860	750	580	440	400	420	500	650	890	910	850	670
	Shaded	820	820	640	440	360	360	360	400	540	810	890	840	600
WEST	Unshaded	380	490	610	730	750	730	680	680	610	570	430	350	580
	Shaded	360	460	570	670	680	670	620	620	570	530	400	330	540

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	32	73	91	79	43	32	77	100	100	76
	M.Cloudy	19	45	58	52	27	22	52	77	77	55
NORTH	M.Clear	9	14	16	15	10	22	17	18	18	17
	M.Cloudy	8	15	18	17	10	13	17	20	19	17
EAST	M.Clear	72	69	22	15	10	61	78	45	18	17
	M.Cloudy	24	36	21	17	10	28	46	37	19	17
SOUTH	M.Clear	28	62	76	66	36	10	18	33	34	20
	M.Cloudy	13	33	44	39	19	9	18	30	30	19
WEST	M.Clear	9	14	16	60	77	10	17	18	41	74
	M.Cloudy	8	15	18	36	34	9	17	20	35	48
M.Clear	(% hrs)	38	38	36	36	38	41	46	36	31	34
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	17	63	88	87	59	13	47	60	47	13
	M.Cloudy	11	38	61	64	41	8	26	35	28	8
NORTH	M.Clear	7	15	18	18	15	5	10	12	10	5
	M.Cloudy	5	14	19	19	14	4	10	13	11	4
EAST	M.Clear	44	76	43	18	15	41	52	13	10	5
	M.Cloudy	14	34	32	19	14	10	21	13	11	4
SOUTH	M.Clear	10	44	65	64	42	31	78	92	78	31
	M.Cloudy	6	24	42	44	26	8	28	37	31	10
WEST	M.Clear	7	15	18	43	71	5	10	13	52	42
	M.Cloudy	5	14	19	33	40	4	10	13	23	12
M.Clear	(% hrs)	41	44	37	34	41	38	38	39	38	38

Wind Summary - December, January, and February

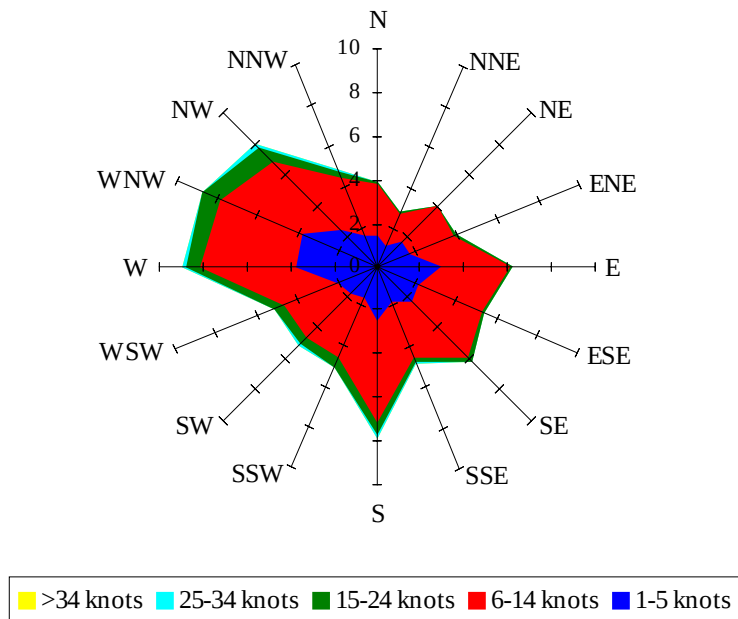
Labels of Percent Frequency on North Axis



Percent Calm = 11.00

Wind Summary - March, April, and May

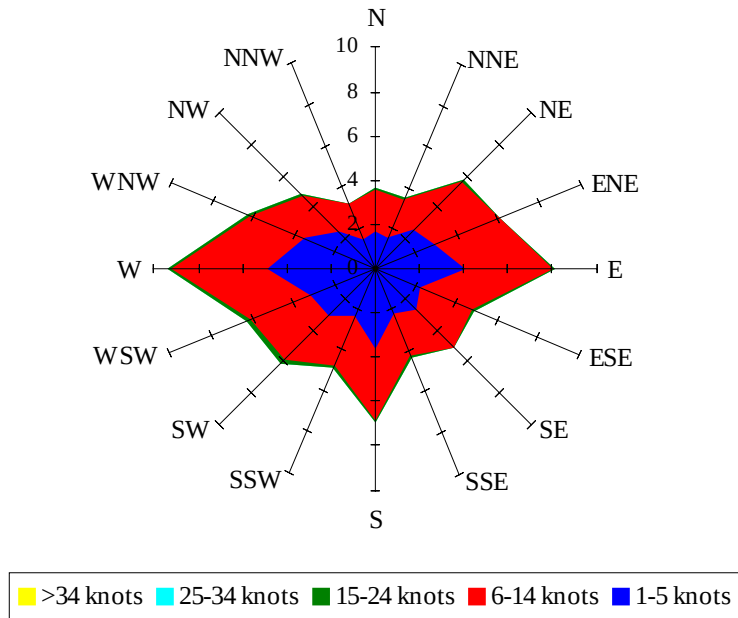
Labels of Percent Frequency on North Axis



Percent Calm = 10.25

Wind Summary - June, July, and August

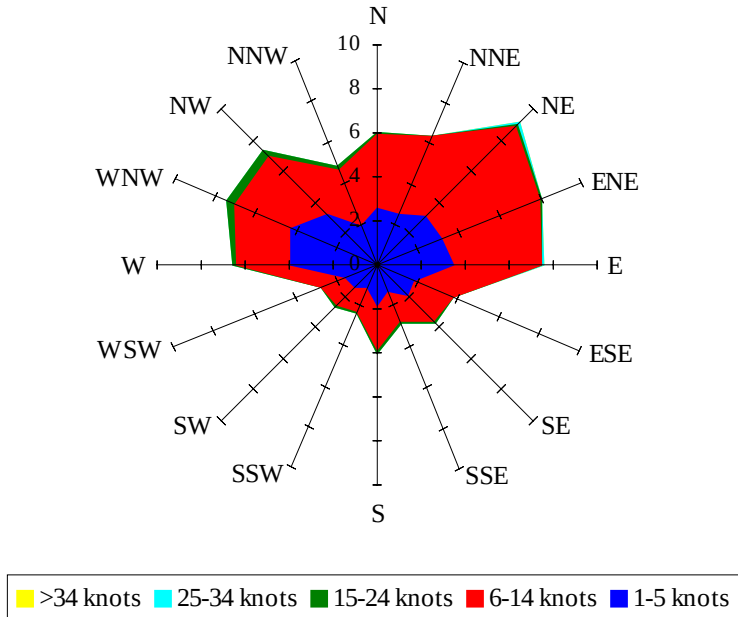
Labels of Percent Frequency on North Axis



Percent Calm = 12.29

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 14.89