

DOBBINS ARB/MARIETTA GA

Latitude = 33.92 N

WMO No. 722270

Longitude = 84.52 W

Elevation = 1070 feet

Period of Record = 1967 to 1996

Average Pressure = 28.91 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	75	101	5.9	WNW
0.4% Occurrence	93	74	103	5.5	W
1.0% Occurrence	91	74	104	5.4	W
2.0% Occurrence	89	74	104	5.3	W
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	29	26	15	7.6	NW
99.0% Occurrence	24	21	11	8.4	NW
99.6% Occurrence	19	16	9	9.7	NW
Median of Extreme Lows	12	10	6	11.7	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	79	89	133	5.8	WNW
0.4% Occurrence	77	87	124	5.0	W
1.0% Occurrence	76	86	120	4.8	W
2.0% Occurrence	75	85	117	4.6	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	142	85	0.91	6.6	W
0.4% Occurrence	132	82	0.85	3.9	WNW
1.0% Occurrence	127	81	0.82	4.0	W
2.0% Occurrence	123	80	0.79	3.8	W
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		51	1228	767	2478

Other Site Data

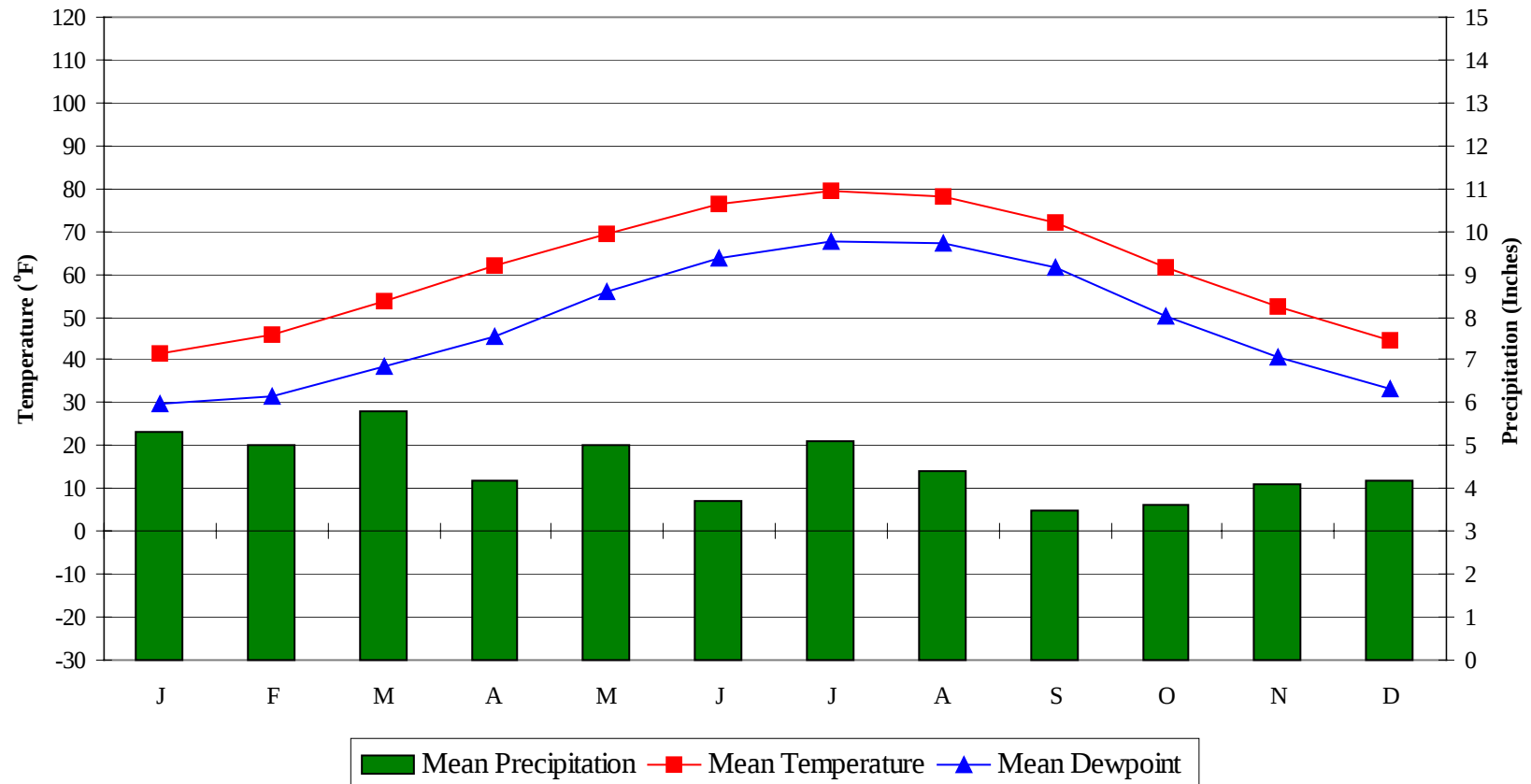
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
8	3.8	90	2.8 + 1.2
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
64.1	N/A	N/A	34

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

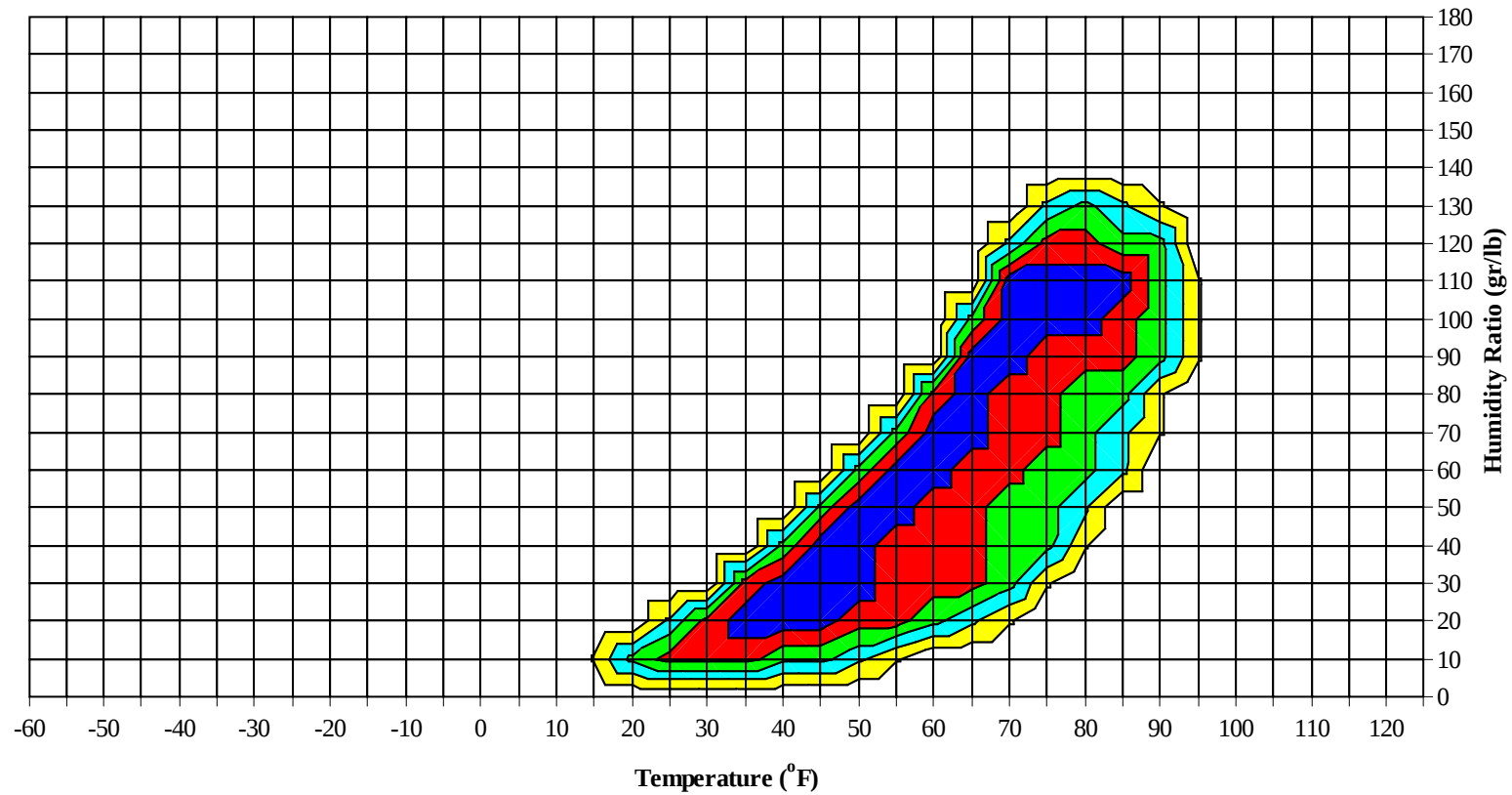
DOBBINS ARB/MARIETTA GA

WMO No. 722270

Average Annual Climate

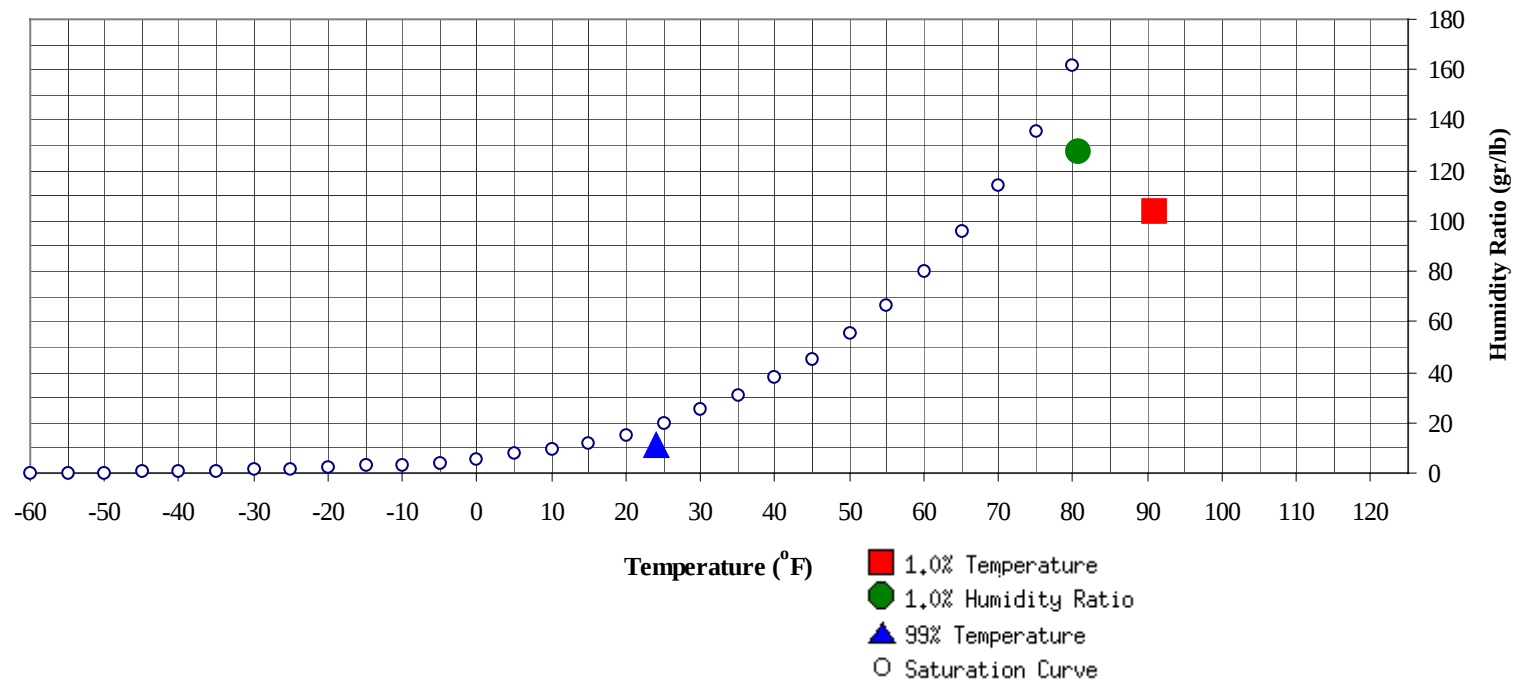


Long Term Psychrometric Summary



- 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



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)
	24	10.9	7.4		127.4	80.8	75.1	73.1	39.4

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	91	103.7	74.2	38.2

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												0	0	0	68.0
80 / 84												3	1	4	63.3
75 / 79		0	0	0	64.2		1	1	2	58.0		12	7	19	60.7
70 / 74		2	1	3	60.5	0	5	3	8	58.2	0	25	18	43	58.2
65 / 69	0	7	4	11	56.6	1	14	10	25	55.6	5	33	29	67	56.1
60 / 64	4	15	10	29	54.2	7	25	22	53	53.5	18	40	39	98	53.6
55 / 59	9	23	20	52	50.6	18	29	28	76	50.0	31	39	43	113	50.2
50 / 54	16	32	29	77	46.3	20	31	29	79	45.4	38	34	38	110	45.6
45 / 49	29	41	41	111	42.2	27	33	36	96	41.3	47	27	32	106	41.8
40 / 44	38	42	45	125	37.7	34	32	35	100	37.1	40	20	23	83	37.4
35 / 39	44	35	41	121	33.0	38	27	29	93	32.4	34	11	11	56	33.0
30 / 34	47	27	32	105	28.5	39	16	22	77	28.4	22	3	5	29	28.8
25 / 29	32	13	14	60	24.0	23	8	7	39	23.7	9	1	2	12	24.0
20 / 24	14	6	6	26	19.1	10	3	2	15	19.3	1	1	1	3	19.5
15 / 19	9	3	3	14	15.0	4	1	1	6	15.3	1	0	0	1	15.7
10 / 14	4	2	1	7	10.1	1	0	0	1	11.0	0			0	12.2
5 / 9	1	0	1	2	5.7	1	0	0	1	6.5					
0 / 4	1	0	0	1	1.4										
-5 / -1	0			0	-4.0										

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.

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															
90 / 94		0		0	64.0		1	0	1	73.2		2	1	3	74.0
85 / 89		2	1	3	64.7		16	8	24	69.7		16	8	24	73.1
80 / 84		18	10	28	63.7		46	25	71	67.5		56	30	86	71.9
75 / 79		34	21	55	61.5	2	61	48	111	65.3	1	71	52	125	70.1
70 / 74	3	42	35	79	59.5	24	57	63	144	63.5	22	55	66	144	68.8
65 / 69	19	46	46	111	57.5	71	40	56	167	61.3	99	30	55	185	67.4
60 / 64	44	42	50	136	55.1	66	18	27	111	57.4	77	9	22	108	63.9
55 / 59	51	29	37	116	50.6	44	7	14	65	52.7	30	2	4	35	58.7
50 / 54	45	16	22	84	46.3	27	2	5	34	48.8	9	0	1	10	54.0
45 / 49	37	8	13	57	42.1	12	1	1	14	44.2	1	0		1	49.2
40 / 44	27	3	5	34	37.8	2			2	40.3					
35 / 39	13	1	1	14	33.6										
30 / 34	3	0		3	29.2										
25 / 29	0			0	25.7										
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															

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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		1	0	1	75.2		0	0	0	75.3					
95 / 99		7	3	10	75.2		4	2	6	74.9		0	0	0	75.2
90 / 94		40	21	62	74.6		22	10	32	74.7		5	2	7	73.2
85 / 89	0	72	42	114	73.7		65	33	98	73.6		29	11	41	72.4
80 / 84	9	67	62	138	72.4	4	76	59	139	72.3	0	56	31	87	70.5
75 / 79	65	41	68	174	71.2	42	54	80	176	71.0	7	58	57	122	68.5
70 / 74	130	16	45	191	69.2	139	23	53	216	69.0	72	49	64	184	67.0
65 / 69	39	3	8	50	65.0	51	3	9	64	65.0	68	26	42	136	63.0
60 / 64	5	0	0	5	60.2	11	1	1	12	59.3	46	12	23	82	58.6
55 / 59						1	0	0	1	55.4	30	3	9	43	54.0
50 / 54											14	1	1	16	49.4
45 / 49											2	0	0	2	44.8
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															

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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															
85 / 89		1	0	1	71.5										
80 / 84		12	3	15	68.0		1	0	1	65.5					
75 / 79	0	37	14	51	64.6		6	1	7	63.5		0	0	0	68.9
70 / 74	6	49	31	86	62.6	0	21	7	28	60.9	0	4	2	6	63.0
65 / 69	23	51	50	124	60.2	8	32	24	63	59.4	3	11	6	19	60.5
60 / 64	42	47	55	145	56.3	20	41	36	97	55.9	8	25	16	49	56.1
55 / 59	55	31	48	134	52.3	25	39	38	102	50.9	15	27	24	66	50.9
50 / 54	48	15	29	92	48.0	33	37	44	114	46.5	17	39	34	91	46.2
45 / 49	40	5	12	57	43.5	40	31	38	108	42.1	28	41	44	113	41.7
40 / 44	25	1	3	28	39.5	38	20	30	88	38.0	41	42	48	131	37.6
35 / 39	8	0	1	9	35.0	38	9	17	64	33.8	46	32	36	114	33.2
30 / 34	1		0	1	31.5	32	3	6	40	29.4	46	16	24	87	28.7
25 / 29						7	1	1	8	25.4	28	7	10	45	23.9
20 / 24						0	0	0	0	19.3	11	2	3	15	19.6
15 / 19						0	0		0	16.7	4	1	1	6	15.2
10 / 14											1	0	0	1	10.0
5 / 9											0	0		0	7.0
0 / 4															
-5 / -1															

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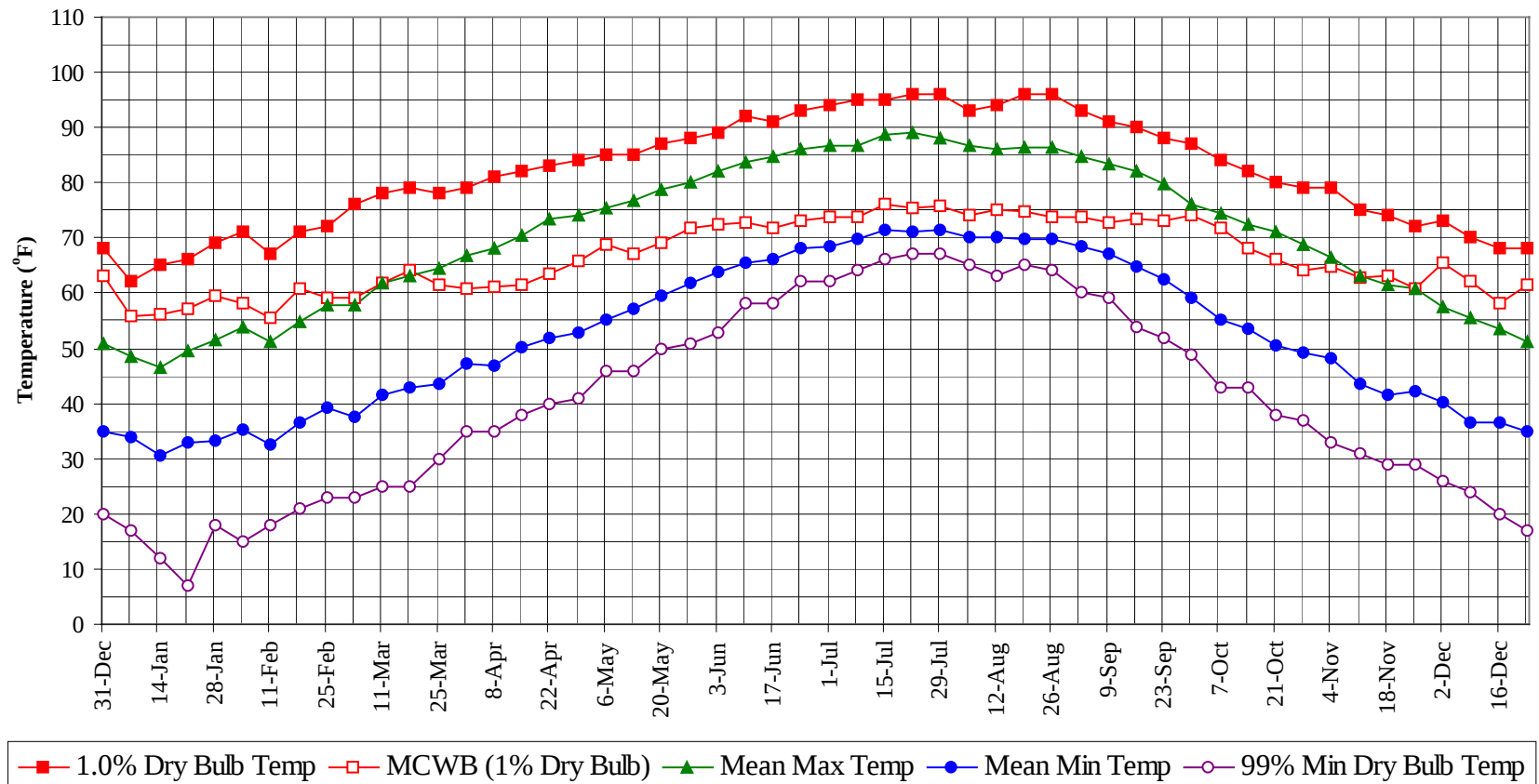
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1967 to 1996

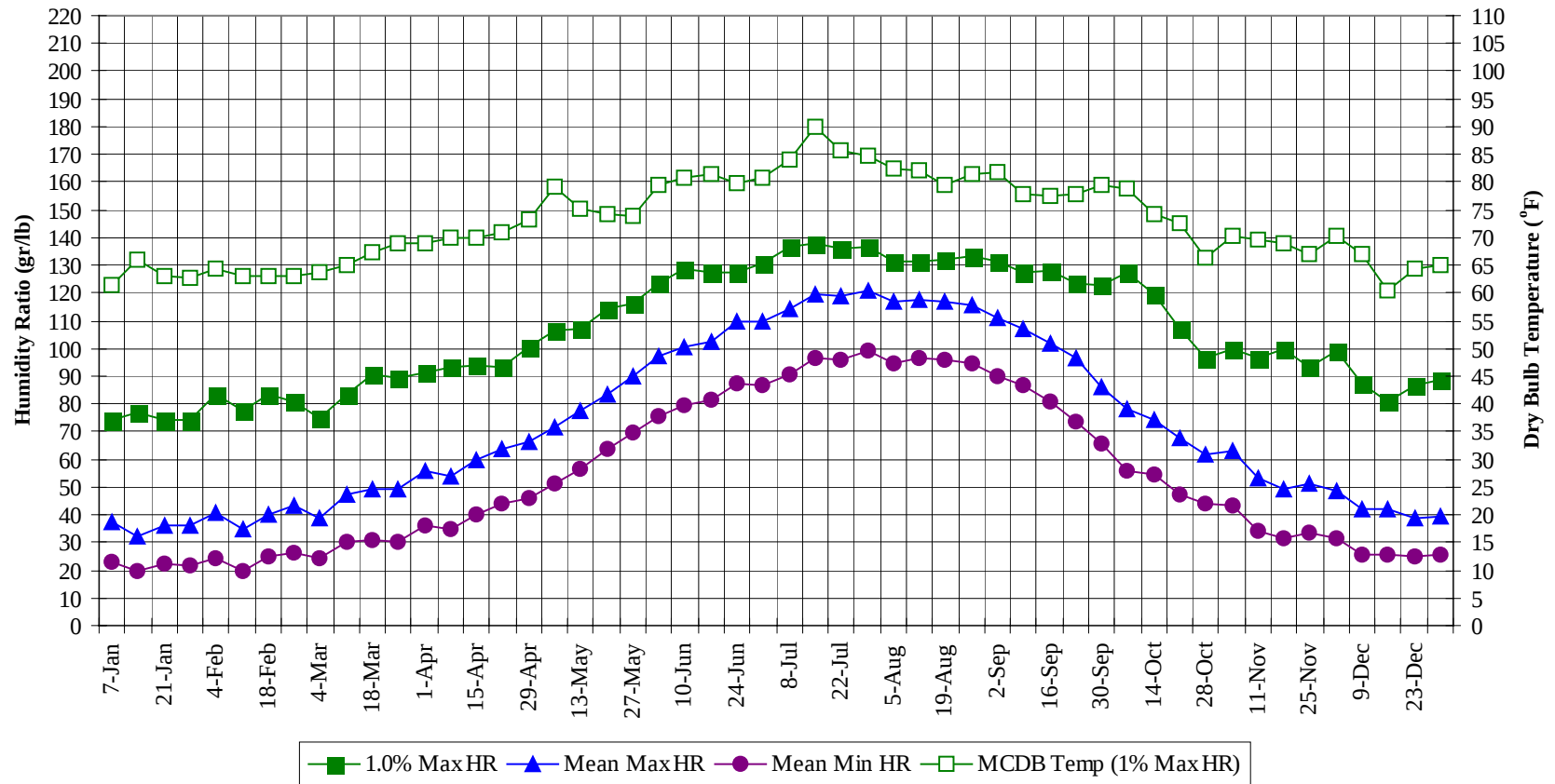
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		1	1	2	75.2
95 / 99		13	6	19	75.0
90 / 94		84	39	123	74.2
85 / 89	0	241	121	362	72.8
80 / 84	15	352	237	604	70.4
75 / 79	145	362	353	860	68.1
70 / 74	499	325	367	1191	65.7
65 / 69	385	277	301	962	60.8
60 / 64	305	267	286	858	55.9
55 / 59	290	228	266	784	51.2
50 / 54	256	205	240	700	46.5
45 / 49	254	186	221	662	42.0
40 / 44	233	157	195	585	37.7
35 / 39	208	112	141	461	33.1
30 / 34	176	64	91	330	28.7
25 / 29	92	28	36	157	24.0
20 / 24	36	10	12	58	19.3
15 / 19	18	4	5	28	15.1
10 / 14	6	3	2	11	10.3
5 / 9	2	0	1	3	6.0
0 / 4	1	0	0	1	1.4
-5 / -1	0			0	-4.0

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

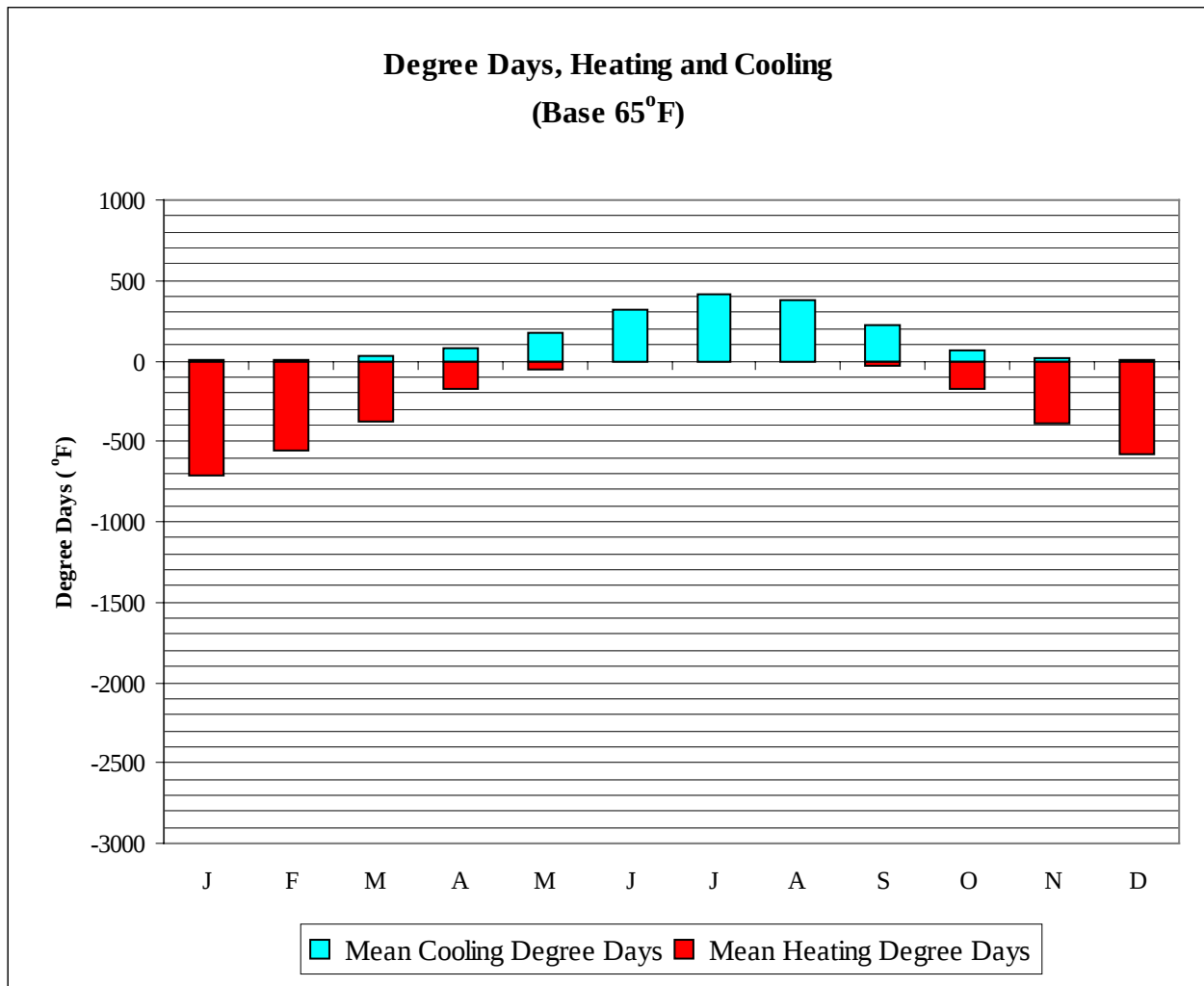


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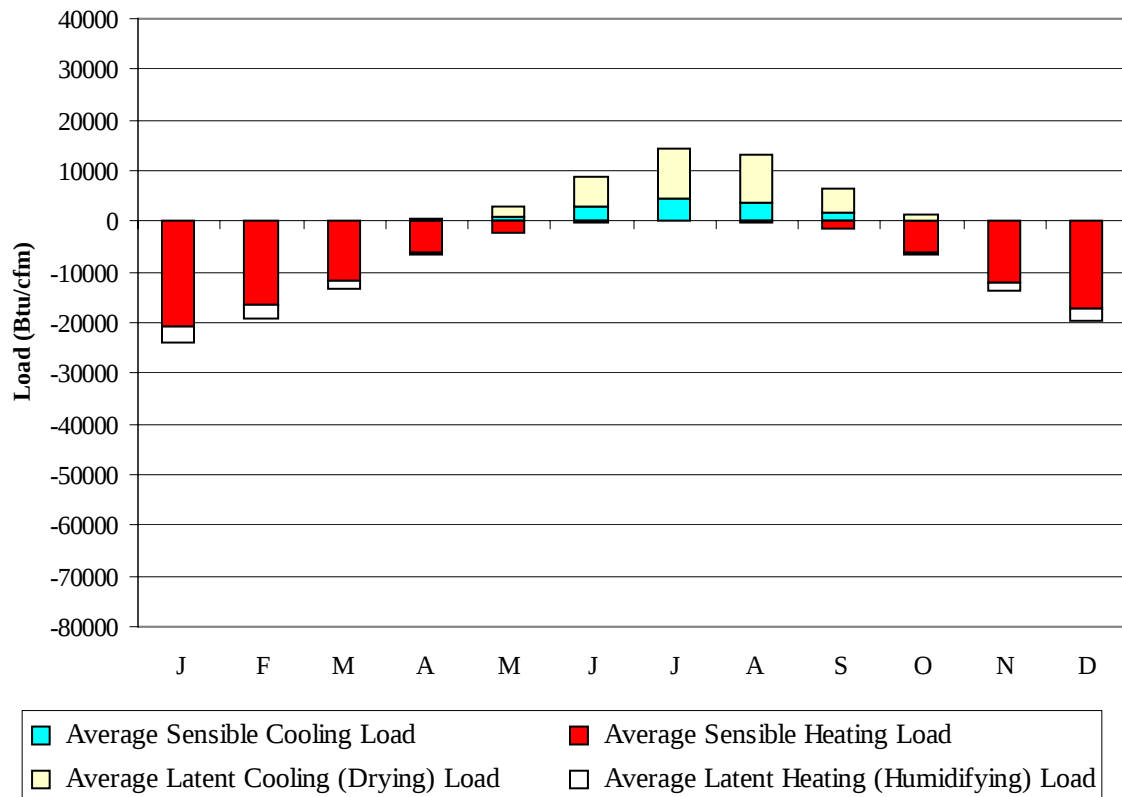
Long Term Dry Bulb Temperature and Humidity Summary

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	62.0	55.9	48.6	34.0	17.0	74.2	61.4	37.7	23.2
14-Jan	65.0	56.2	46.4	30.5	12.0	77.0	66.1	32.2	19.4
21-Jan	66.0	57.0	49.6	32.9	7.0	74.2	63.0	35.9	22.6
28-Jan	69.0	59.4	51.7	33.3	18.0	74.2	62.8	36.2	21.9
4-Feb	71.0	58.2	54.0	35.2	15.0	83.3	64.3	40.5	24.3
11-Feb	67.0	55.5	51.2	32.4	18.0	77.7	63.1	34.6	19.7
18-Feb	71.0	60.9	55.0	36.7	21.0	83.3	63.1	40.0	25.3
25-Feb	72.0	59.0	57.7	39.2	23.0	80.5	63.1	43.6	26.4
4-Mar	76.0	59.1	57.9	37.7	23.0	74.9	63.7	38.6	24.5
11-Mar	78.0	61.7	61.9	41.7	25.0	83.3	65.1	47.2	30.5
18-Mar	79.0	64.0	63.2	42.7	25.0	90.3	67.4	49.3	30.6
25-Mar	78.0	61.4	64.6	43.7	30.0	89.6	68.8	49.5	30.0
1-Apr	79.0	60.9	66.8	47.2	35.0	91.0	68.9	55.6	36.3
8-Apr	81.0	61.2	68.1	47.0	35.0	93.1	69.8	53.9	35.0
15-Apr	82.0	61.6	70.5	50.1	38.0	93.8	70.1	59.9	40.1
22-Apr	83.0	63.5	73.3	51.9	40.0	93.1	71.0	63.8	43.7
29-Apr	84.0	65.9	74.0	52.8	41.0	100.8	73.1	66.3	46.0
6-May	85.0	68.8	75.4	55.1	46.0	106.4	79.0	71.3	51.0
13-May	85.0	67.1	76.9	57.1	46.0	107.1	75.1	77.5	56.6
20-May	87.0	69.0	78.8	59.6	50.0	114.1	74.3	83.3	63.5
27-May	88.0	71.8	80.1	61.7	51.0	116.2	73.8	90.3	69.4
3-Jun	89.0	72.3	82.0	63.8	53.0	123.2	79.4	97.1	75.8
10-Jun	92.0	72.9	83.9	65.4	58.0	128.8	80.7	100.4	79.2
17-Jun	91.0	71.9	84.6	66.0	58.0	127.4	81.3	102.4	81.2
24-Jun	93.0	73.2	86.2	68.2	62.0	127.4	79.7	109.7	87.2
1-Jul	94.0	73.8	86.7	68.5	62.0	130.9	80.9	110.0	86.5
8-Jul	95.0	73.9	86.8	69.8	64.0	136.5	84.0	114.1	90.9
15-Jul	95.0	76.0	88.7	71.4	66.0	137.9	89.9	119.5	96.7
22-Jul	96.0	75.5	89.0	71.1	67.0	135.8	85.8	118.7	95.6
29-Jul	96.0	75.8	88.1	71.6	67.0	136.5	84.9	121.1	99.4
5-Aug	93.0	74.1	86.8	70.1	65.0	131.6	82.6	116.6	94.4
12-Aug	94.0	75.0	86.1	70.1	63.0	131.6	82.0	117.6	96.4
19-Aug	96.0	74.6	86.3	69.8	65.0	132.3	79.6	117.0	95.9
26-Aug	96.0	73.7	86.5	69.8	64.0	133.0	81.3	115.7	94.4
2-Sep	93.0	73.9	84.9	68.6	60.0	131.6	81.6	110.7	89.8
9-Sep	91.0	72.9	83.3	67.1	59.0	127.4	77.8	106.8	86.4
16-Sep	90.0	73.5	82.2	64.9	54.0	128.1	77.4	101.8	80.6
23-Sep	88.0	73.1	79.7	62.5	52.0	123.2	77.7	96.4	73.9
30-Sep	87.0	74.2	76.0	59.0	49.0	122.5	79.6	86.3	65.4
7-Oct	84.0	71.8	74.5	55.2	43.0	127.4	78.7	77.9	56.0
14-Oct	82.0	68.3	72.3	53.6	43.0	119.7	74.2	74.4	54.6
21-Oct	80.0	66.2	71.0	50.4	38.0	107.1	72.4	67.7	47.0
28-Oct	79.0	64.2	68.9	49.3	37.0	96.6	66.4	61.9	43.7
4-Nov	79.0	64.8	66.5	48.4	33.0	100.1	70.4	62.9	43.7
11-Nov	75.0	62.7	63.2	43.4	31.0	96.6	69.8	53.0	34.1
18-Nov	74.0	63.1	61.4	41.6	29.0	100.1	69.0	49.1	31.7
25-Nov	72.0	60.8	60.7	42.1	29.0	93.1	67.1	51.4	33.2
2-Dec	73.0	65.4	57.4	40.2	26.0	99.4	70.4	48.6	31.4
9-Dec	70.0	62.1	55.4	36.6	24.0	87.5	67.1	42.1	25.4
16-Dec	68.0	58.3	53.6	36.6	20.0	80.5	60.6	41.8	25.8
23-Dec	68.0	61.6	51.2	34.8	17.0	86.8	64.3	39.0	24.7
31-Dec	68.0	63.2	50.9	34.9	20.0	88.9	65.0	39.5	25.5



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	1	715
FEB	4	557
MAR	27	374
APR	76	176
MAY	176	53
JUN	323	6
JUL	418	0
AUG	376	1
SEP	225	29
OCT	67	177
NOV	15	393
DEC	3	577
ANN	1710	3058

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	0	-20862	2	-3270
FEB	2	-16565	22	-2724
MAR	57	-11763	54	-1539
APR	316	-6104	232	-574
MAY	1012	-2245	1852	-17
JUN	2882	-358	5808	0
JUL	4424	-52	9904	0
AUG	3495	-107	9517	0
SEP	1551	-1305	4850	-3
OCT	211	-6247	935	-191
NOV	12	-12289	227	-1265
DEC	0	-17102	59	-2414
ANN	13962	-94999	33462	-11997

Average Annual Solar Radiation – Nearest Available Site

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

City: ATLANTA
 State: GA
 WBAN No: 13874
 Lat(N): 33.65
 Long(W): 84.43
 Elev(ft): 1034

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.356
 Vert Gap: 0.272

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	820	1080	1420	1790	1970	2040	1950	1810	1540	1280	930	750	1450
	Std Dev	66	101	123	127	136	139	161	106	120	123	78	58	44
	Minimum	690	900	1180	1580	1740	1740	1690	1600	1280	1070	760	650	1360
	Maximum	950	1300	1690	2060	2270	2320	2300	1980	1760	1540	1060	880	1540
	Diffuse	370	460	590	710	850	920	950	870	710	490	390	340	640
Clear Day	Global	1170	1500	1930	2320	2530	2590	2520	2310	1970	1560	1200	1050	1890
NORTH	Global	240	300	380	460	570	640	600	520	420	330	260	220	410
	Diffuse	240	300	380	450	510	550	540	500	420	330	260	220	390
Clear Day	Global	220	270	340	440	580	690	630	490	390	310	240	200	400
EAST	Global	510	660	830	1000	1060	1080	1050	990	860	760	580	470	820
	Diffuse	280	350	460	550	620	650	650	610	520	400	310	260	470
Clear Day	Global	820	1000	1200	1340	1380	1380	1340	1280	1150	980	810	730	1120
SOUTH	Global	1120	1180	1110	960	760	690	710	860	1030	1260	1200	1110	1000
	Diffuse	370	430	510	540	560	570	580	590	560	490	410	360	500
Clear Day	Global	2020	1960	1670	1210	870	730	780	1040	1430	1760	1910	1940	1440
WEST	Global	540	680	850	1020	1060	1070	1010	990	890	790	590	500	830
	Diffuse	290	360	460	560	630	660	660	620	530	420	320	260	480
Clear Day	Global	820	1000	1200	1340	1380	1380	1340	1280	1150	980	810	730	1120

Average Annual Solar Heat and Illumination – Nearest Available Site

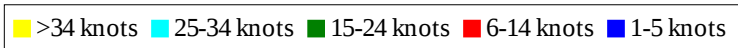
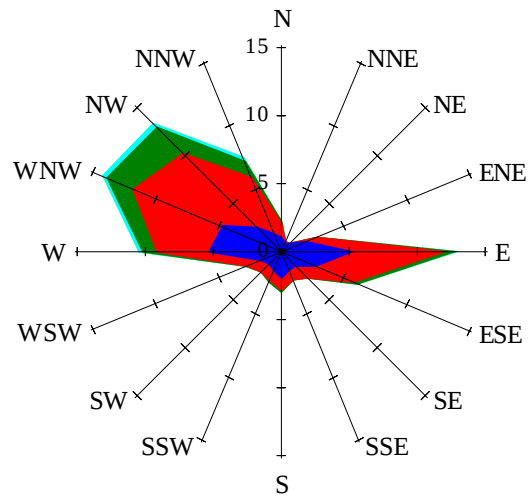
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	550	750	1020	1300	1430	1490	1420	1310	1100	910	630	500	1040
NORTH	Unshaded	160	210	260	310	370	410	400	350	290	230	180	150	280
	Shaded	150	190	240	290	350	380	370	320	270	210	170	140	260
EAST	Unshaded	350	460	590	710	760	770	740	700	610	540	400	330	580
	Shaded	330	430	540	650	680	690	670	640	560	500	370	300	530
SOUTH	Unshaded	830	850	750	590	460	420	440	530	680	890	890	830	680
	Shaded	820	800	640	440	360	370	370	410	540	810	870	810	600
WEST	Unshaded	370	480	600	730	750	760	710	700	630	560	410	340	590
	Shaded	350	440	550	660	690	690	640	640	580	520	390	320	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	80	44	32	76	101	101	77
	M.Cloudy	17	43	57	50	26	20	51	75	77	56
NORTH	M.Clear	8	14	16	15	10	22	17	18	18	17
	M.Cloudy	7	15	18	17	10	13	17	20	20	18
EAST	M.Clear	73	70	23	15	10	63	79	47	18	17
	M.Cloudy	22	33	21	17	10	25	44	37	20	18
SOUTH	M.Clear	28	63	78	69	38	10	19	35	36	22
	M.Cloudy	12	31	43	38	19	9	18	30	31	20
WEST	M.Clear	8	14	16	60	78	10	17	18	40	73
	M.Cloudy	7	15	18	34	31	9	17	20	34	48
M.Clear	(% hrs)	36	38	36	35	37	43	45	37	35	40
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	16	61	88	88	61	12	46	60	47	13
	M.Cloudy	10	37	60	63	42	7	25	34	27	8
NORTH	M.Clear	6	14	17	18	15	5	10	12	10	5
	M.Cloudy	5	14	19	19	15	3	10	13	11	4
EAST	M.Clear	43	76	44	18	15	40	52	13	10	5
	M.Cloudy	12	33	32	19	15	8	20	13	11	4
SOUTH	M.Clear	10	44	67	66	44	30	78	94	79	33
	M.Cloudy	5	23	41	44	27	7	26	35	29	10
WEST	M.Clear	6	14	17	42	72	5	10	12	51	42
	M.Cloudy	5	14	19	32	40	3	10	13	21	12
M.Clear	(% hrs)	41	44	37	36	42	36	36	37	37	38

Wind Summary - December, January, and February

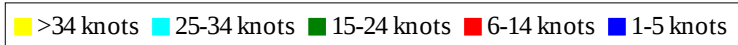
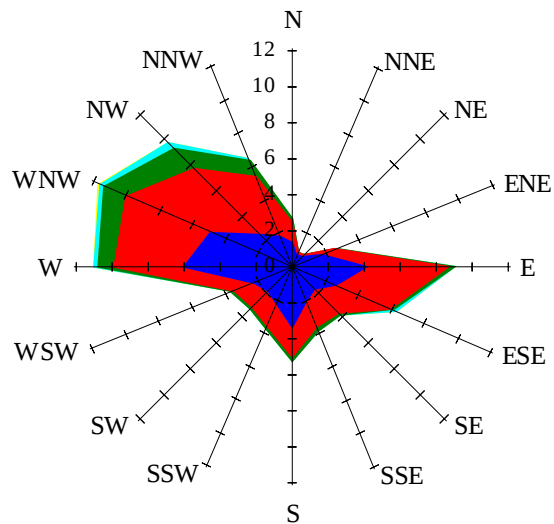
Labels of Percent Frequency on North Axis



Percent Calm = 14.64

Wind Summary - March, April, and May

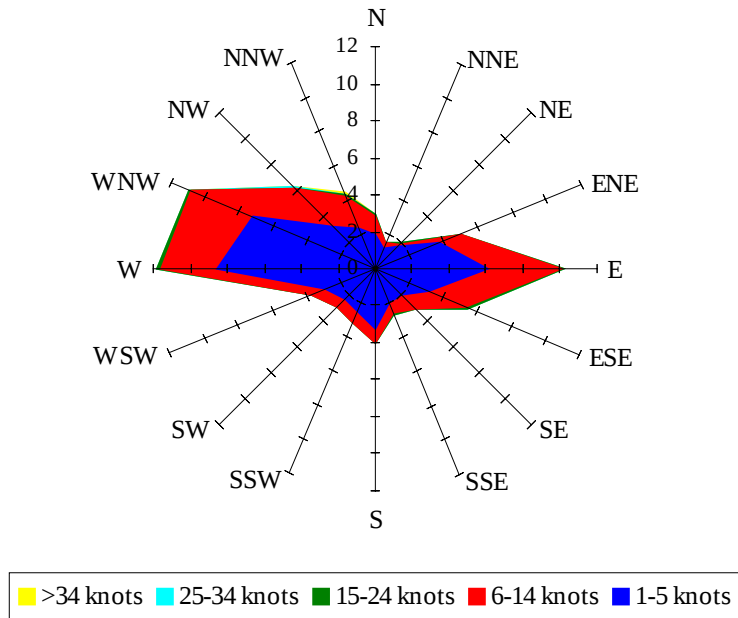
Labels of Percent Frequency on North Axis



Percent Calm = 16.07

Wind Summary - June, July, and August

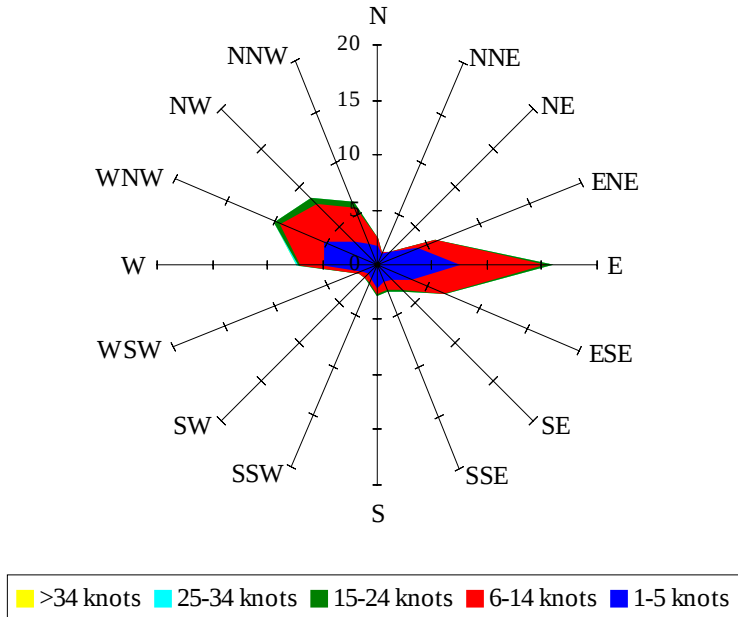
Labels of Percent Frequency on North Axis



Percent Calm = 20.34

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 21.44