

ATLANTA INTL ARPT GA

Latitude = 33.65 N

WMO No. 722190

Longitude = 84.42 W

Elevation = 1034 feet

Period of Record = 1973 to 1996

Average Pressure = 28.94 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	97	75	101	9.5	W
0.4% Occurrence	94	75	104	9.0	W
1.0% Occurrence	92	74	104	9.4	W
2.0% Occurrence	90	74	104	8.9	W
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	29	25	14	10.8	NW
99.0% Occurrence	23	20	10	11.3	NW
99.6% Occurrence	18	15	8	12.8	NW
Median of Extreme Lows	11	9	6	14.2	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	91	135	9.2	W
0.4% Occurrence	77	89	125	8.7	W
1.0% Occurrence	76	87	122	8.5	W
2.0% Occurrence	75	85	118	8.5	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	141	87	0.90	9.6	W
0.4% Occurrence	132	82	0.85	8.5	W
1.0% Occurrence	127	80	0.82	7.7	W
2.0% Occurrence	123	80	0.79	8.9	W
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		69	1195	811	2565

Other Site Data

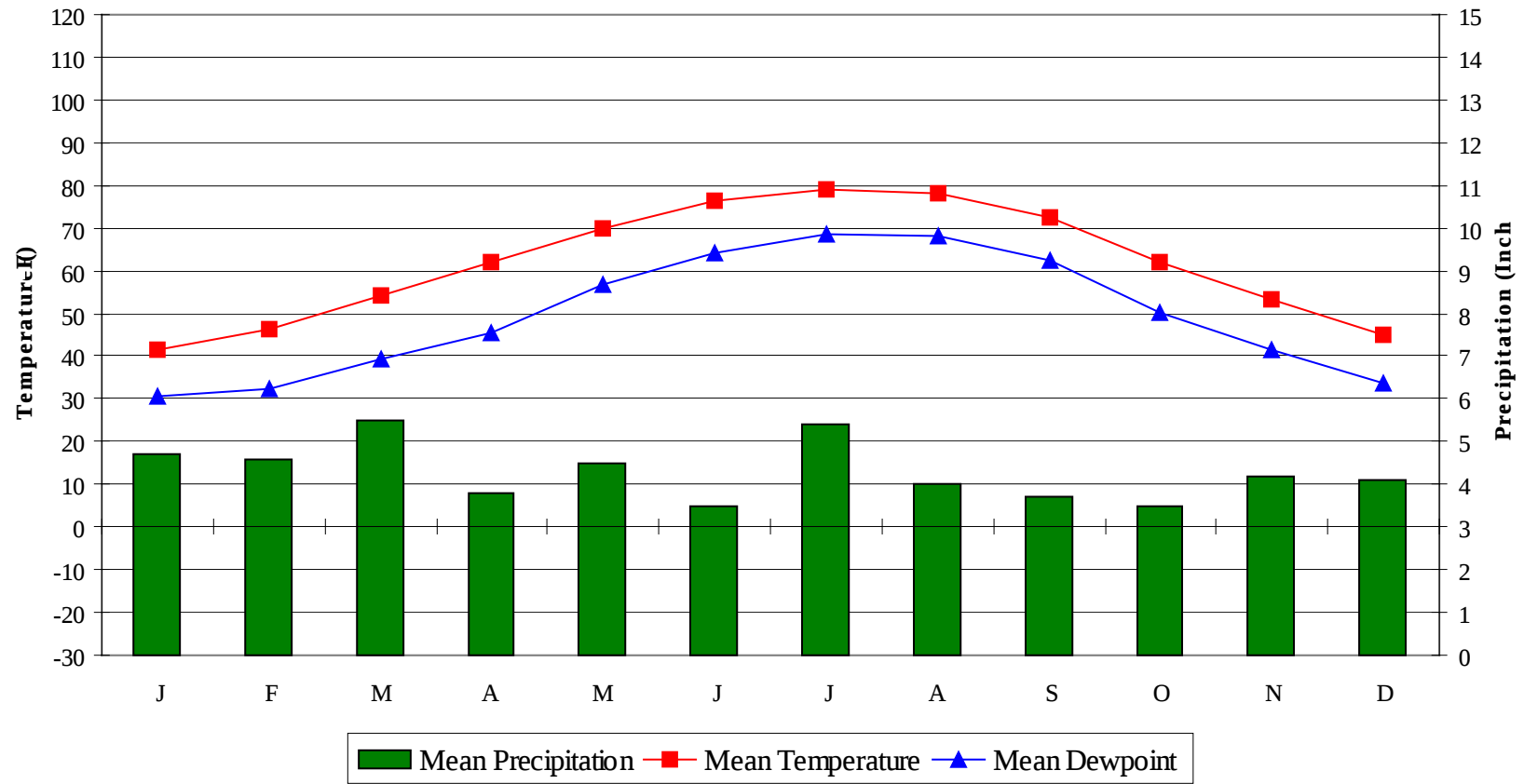
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
8	3.8	90	3.8 + 1.2
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
64.2	5	3	30

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

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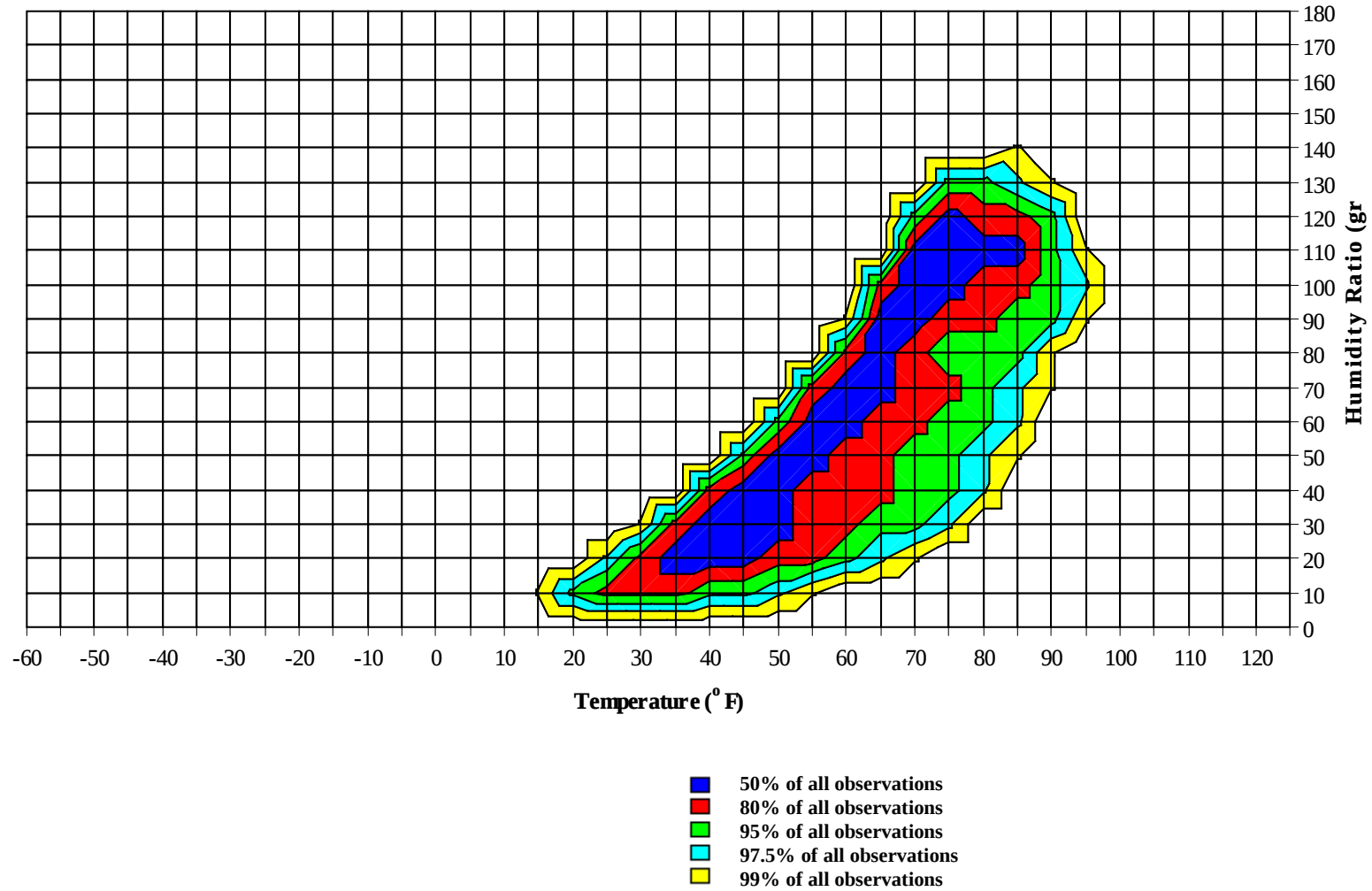
Average Annual Climate

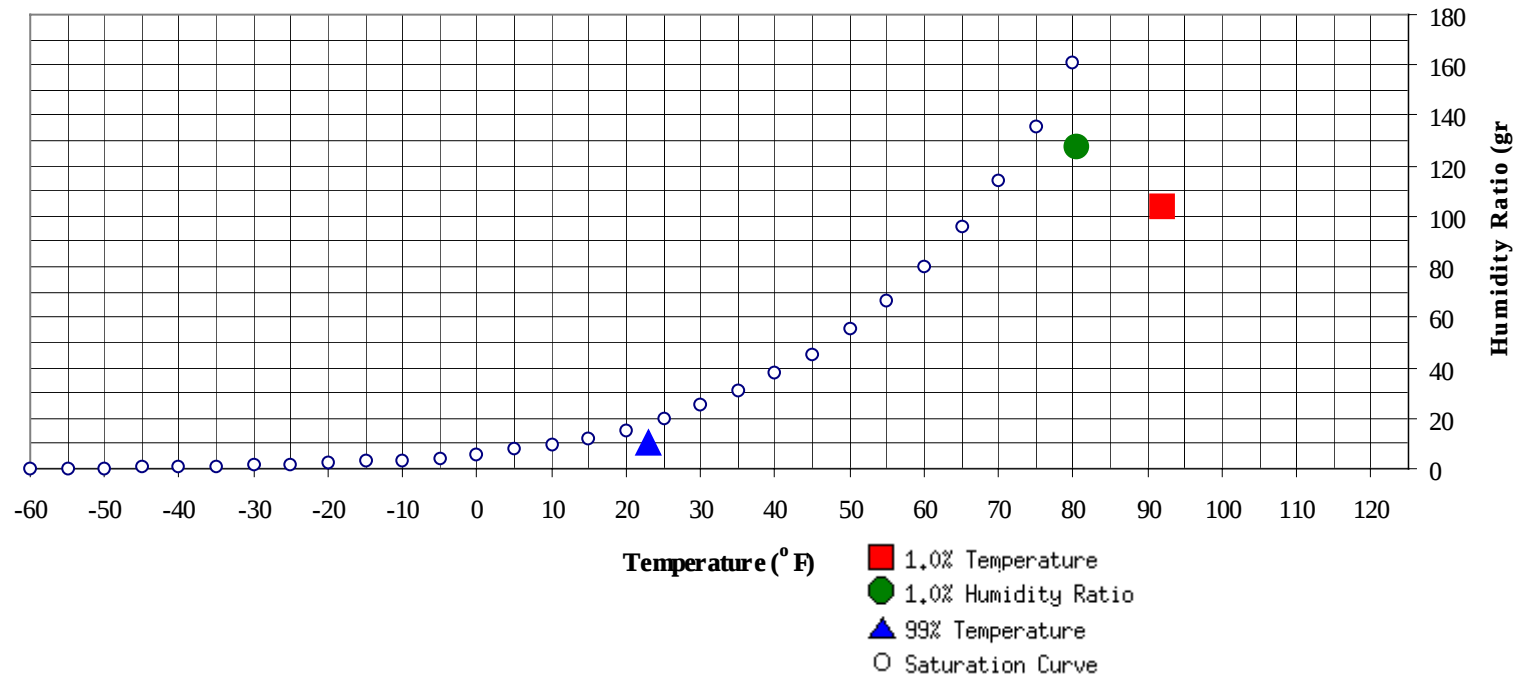


ATLANTA INTL ARPT GA

WMO No. 722190

Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values

	(°F)	MCHR	Enthalpy	1.0% Humidity	(gr/lb)	MCDB	MCWB	MC Dewpt	Enthalpy
		(gr/lb)	(btu/lb)			(°F)	(°F)	(°F)	(btu/lb)
99% Dry Bulb	23	10.2	7.1	Ratio	127.4	80.4	75.1	73.1	39.3

1.0% Dry Bulb	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
92	104.1	74.5	38.5	

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WMO No. 722190

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	0	63.5
80 / 84												4	2	6	62.6
75 / 79		0		0	63.0		2	1	3	59.9		14	9	23	60.2
70 / 74		2	1	3	59.3		8	4	12	58.4	1	27	18	46	58.2
65 / 69	0	7	4	12	58.4	2	16	12	30	56.9	6	33	33	72	56.6
60 / 64	4	16	12	33	55.1	7	28	24	59	53.8	24	41	43	108	54.3
55 / 59	11	24	20	56	51.3	19	31	32	81	50.3	41	36	42	119	50.2
50 / 54	18	34	32	84	46.8	23	29	31	84	45.7	43	33	36	112	46.0
45 / 49	28	41	43	112	42.4	32	31	34	96	41.4	45	26	31	103	42.1
40 / 44	39	40	45	123	38.1	37	29	31	97	37.1	34	17	19	71	37.5
35 / 39	48	35	38	122	33.3	34	24	26	83	32.5	29	9	11	49	33.1
30 / 34	43	23	27	93	28.4	35	15	19	69	28.3	16	2	4	22	28.8
25 / 29	27	14	15	56	24.0	20	7	8	34	23.5	6	1	1	8	23.9
20 / 24	14	6	7	27	19.1	10	3	2	15	19.3	2	1	1	3	19.7
15 / 19	8	2	3	13	14.7	5	1	1	7	15.3	1	0	0	1	16.0
10 / 14	4	1	1	7	10.4	1	0	0	1	10.5	0		0	0	11.1
5 / 9	1	1	0	2	5.4	0	0		0	6.8			0	0	8.0
0 / 4	1	0	0	1	0.5										
-5 / -1	0	0	0	0	-3.6										
-10 / -6	1	0	0	1	-7.1										

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.

ATLANTA INTL ARPT GA

WMO No. 722190

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															
95 / 99								0	0	75.0		3	1	4	74.4
90 / 94		0	0	0	63.9		3	1	4	72.6		24	9	34	73.1
85 / 89		5	2	6	65.6		23	8	31	69.5		59	32	91	71.6
80 / 84		23	10	33	63.2	0	49	28	77	67.5	4	70	53	127	70.2
75 / 79	0	34	22	56	61.4	4	60	47	111	65.3	32	49	64	145	68.9
70 / 74	3	43	38	84	59.4	32	55	62	150	63.8	108	26	57	191	67.7
65 / 69	27	45	48	120	58.2	77	35	57	169	61.9	70	7	21	97	63.8
60 / 64	51	39	44	134	55.0	68	15	27	111	57.8	20	1	4	25	58.5
55 / 59	50	26	34	109	50.5	38	6	12	56	52.5	6	0	0	6	53.9
50 / 54	43	15	21	80	46.1	19	1	5	25	48.1	1			1	48.2
45 / 49	31	8	13	52	41.8	9	0	1	10	44.7					
40 / 44	24	3	5	31	37.9	1			1	39.7					
35 / 39	9	1	2	12	33.3										
30 / 34	3	0	0	3	29.1										
25 / 29	0			0	25.8										
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															

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ATLANTA INTL ARPT GA

WMO No. 722190

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	2	77.7		0	0	0	77.0					
95 / 99	0	13	5	17	75.6		5	2	7	75.8		1	0	1	75.5
90 / 94	0	43	19	63	74.9		28	10	38	75.0		8	2	10	74.5
85 / 89	0	68	40	108	73.7	0	67	33	100	73.8		35	14	49	72.6
80 / 84	12	64	61	137	72.8	5	75	66	146	72.6	1	57	34	92	70.7
75 / 79	68	38	66	171	71.6	55	46	79	180	71.5	15	54	58	127	68.9
70 / 74	133	16	49	198	69.7	140	22	51	213	69.5	82	43	65	190	67.4
65 / 69	35	4	8	46	66.0	43	3	8	54	65.7	69	25	39	133	63.5
60 / 64	2	0	0	2	61.6	4	1	1	5	59.9	41	11	19	71	58.3
55 / 59	0			0	59.0	1	0	0	1	56.5	22	4	8	34	53.7
50 / 54											9	1	2	12	49.3
45 / 49											2		0	2	45.4
40 / 44											0			0	40.7
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															

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ATLANTA INTL ARPT GA

WMO No. 722190

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															
90 / 94															
85 / 89		2	0	2	70.0										
80 / 84		16	4	20	67.5		1	0	1	64.9					
75 / 79	0	37	17	54	64.7		8	1	10	63.6		0	0	0	69.0
70 / 74	6	50	38	95	62.6	0	27	11	38	61.7	1	6	2	8	63.1
65 / 69	34	52	54	140	60.2	11	35	30	77	60.1	3	14	9	26	60.1
60 / 64	47	44	53	144	56.3	25	38	41	104	56.5	10	24	19	53	56.3
55 / 59	54	25	40	119	52.0	32	39	38	110	51.1	16	31	27	74	51.2
50 / 54	50	14	26	90	47.8	39	35	42	116	46.5	21	39	36	96	46.4
45 / 49	33	5	10	48	43.2	44	29	34	107	41.9	30	38	43	112	42.0
40 / 44	18	1	4	23	38.9	32	16	25	73	37.7	44	40	45	129	37.8
35 / 39	5	0	1	6	34.9	31	7	15	52	33.2	45	26	31	102	33.2
30 / 34	0		0	0	30.6	22	2	3	26	29.2	40	18	22	80	28.6
25 / 29						4	1	1	6	24.5	22	7	9	38	23.4
20 / 24						1	0	0	1	20.3	9	3	3	14	19.2
15 / 19						0	0		0	15.8	4	1	1	6	14.7
10 / 14											2	1	1	3	10.5
5 / 9											1	0	0	1	5.9
0 / 4											0	0	0	1	0.9
-5 / -1															
-10 / -6															

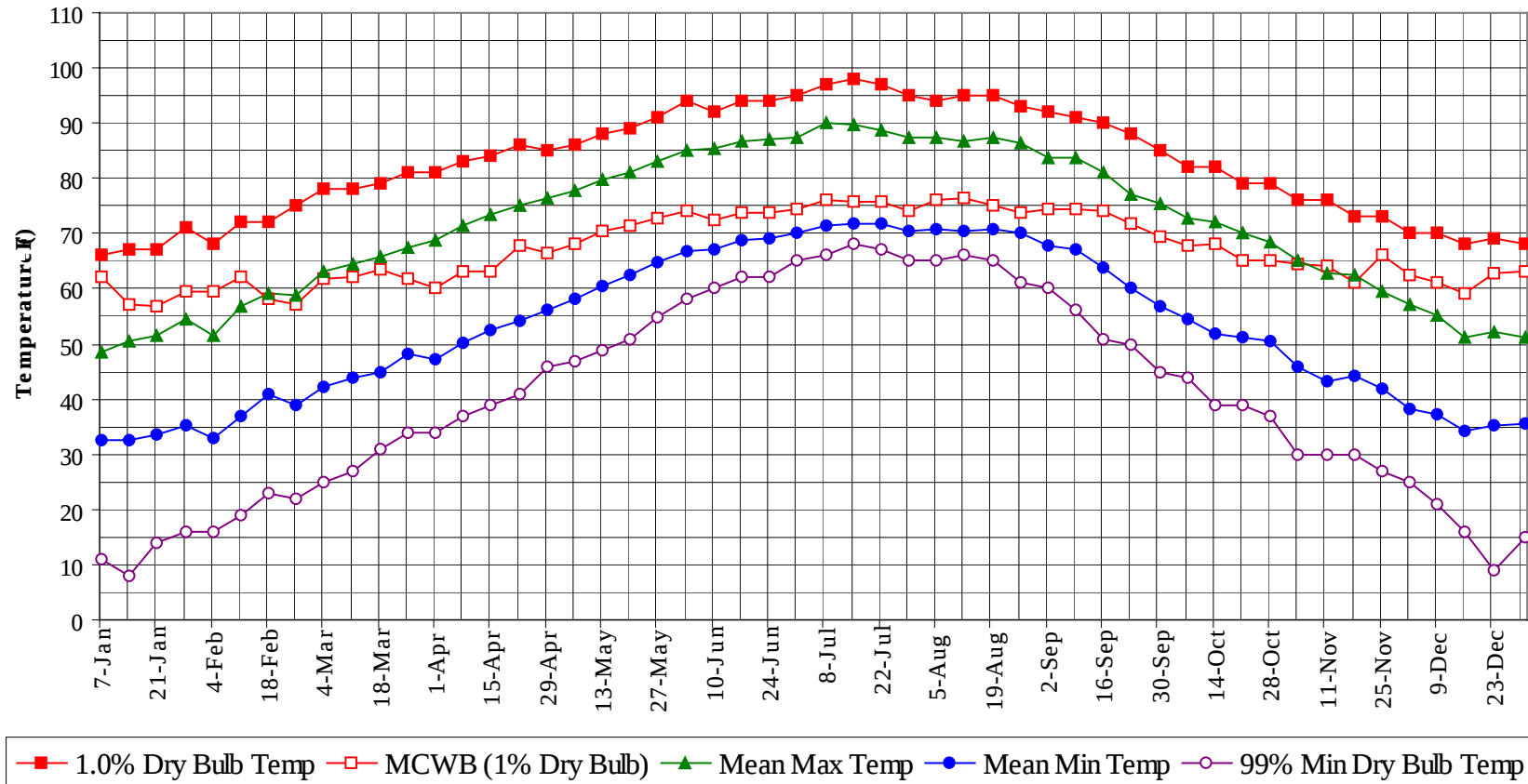
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

ATLANTA INTL ARPT GA WMO No. 722190
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1973 to 1996

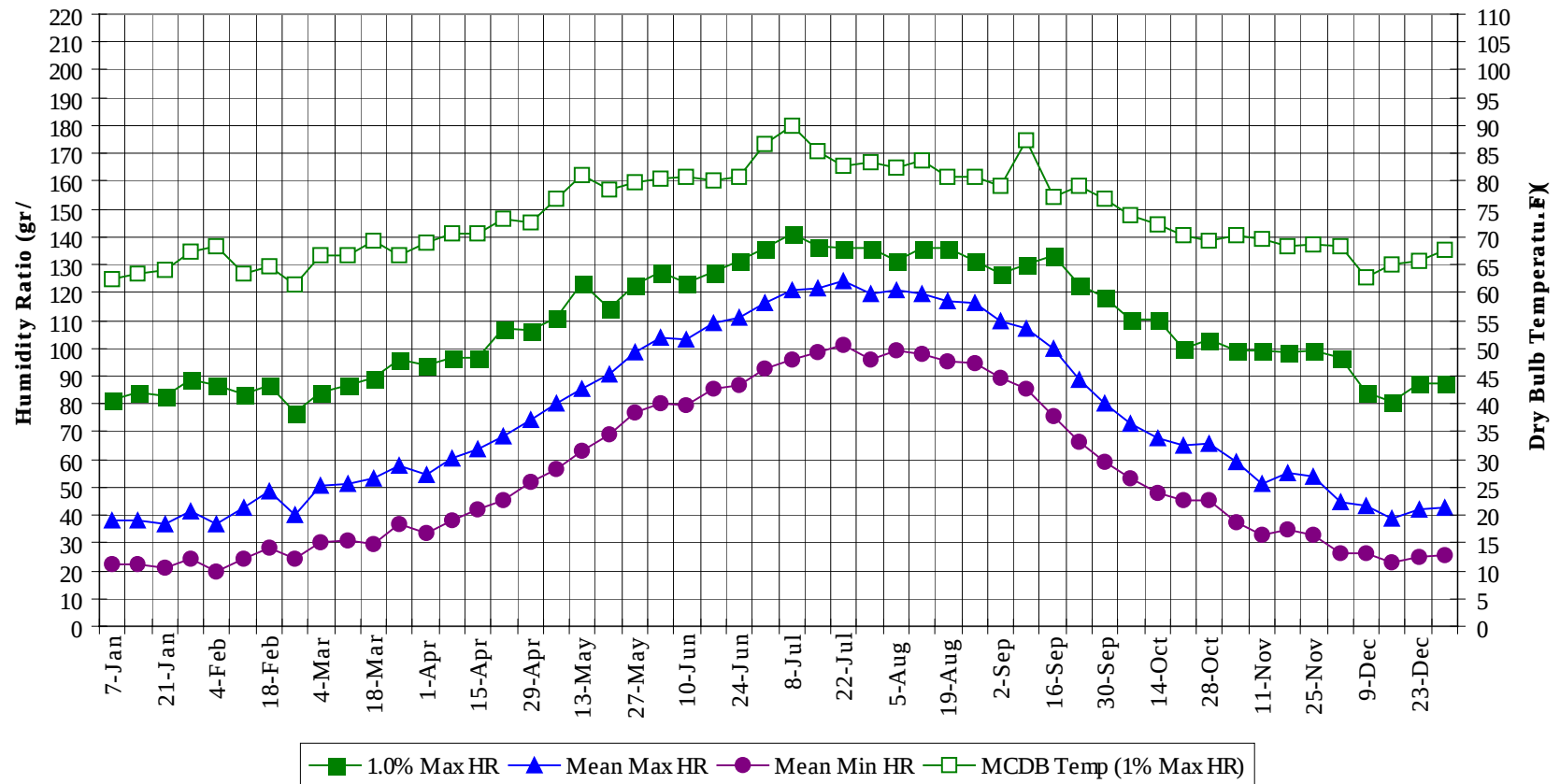
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		1	1	2	77.7
95 / 99	0	21	7	28	75.5
90 / 94	0	107	41	148	74.4
85 / 89	0	257	128	386	72.6
80 / 84	21	358	257	636	70.5
75 / 79	173	342	363	878	68.5
70 / 74	504	325	396	1225	66.2
65 / 69	378	276	322	976	61.2
60 / 64	306	258	287	851	56.1
55 / 59	290	223	255	768	51.2
50 / 54	266	201	232	699	46.6
45 / 49	256	178	209	643	42.1
40 / 44	229	146	173	549	37.7
35 / 39	201	103	124	428	33.1
30 / 34	159	60	75	295	28.5
25 / 29	81	29	34	144	23.7
20 / 24	36	11	12	60	19.2
15 / 19	17	5	6	28	14.9
10 / 14	8	2	2	12	10.4
5 / 9	3	1	1	4	5.8
0 / 4	1	0	0	2	0.7
-5 / -1	0	0	0	0	-3.6
-10 / -6	1	0	0	1	-7.1

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



ATLANTA INTL ARPT GA

WMO No. 722190

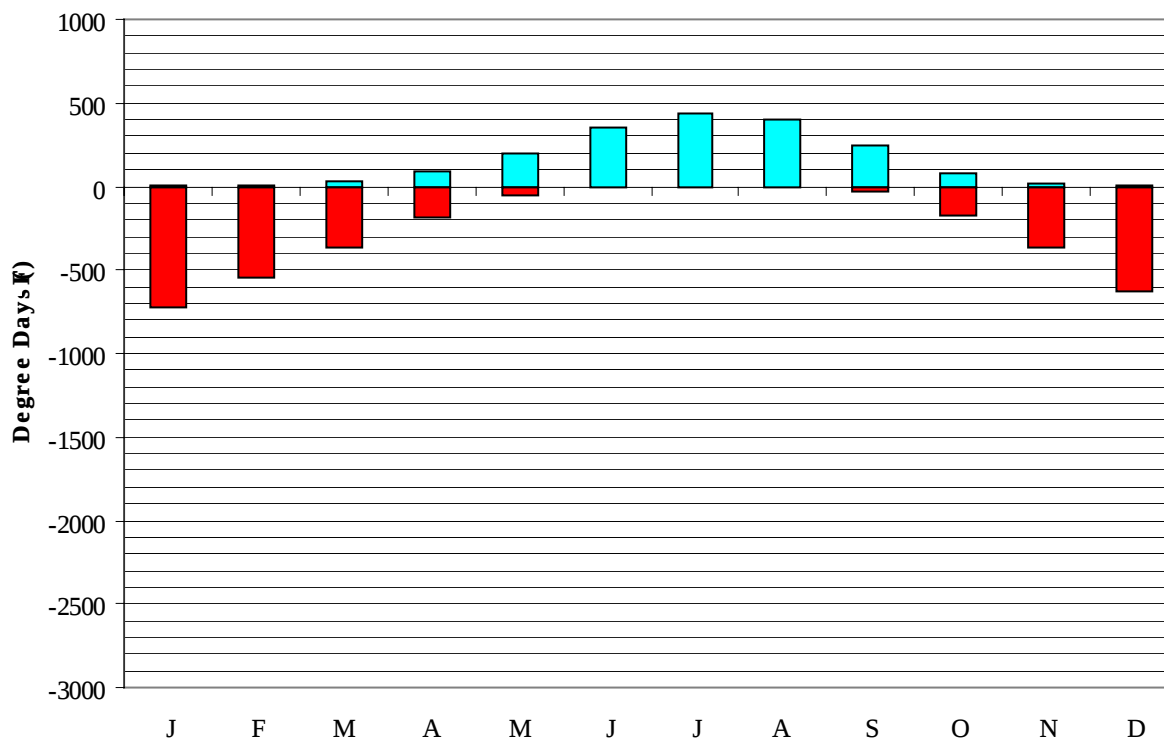
Long Term Dry Bulb Temperature and Humidity Summary

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	66.0	62.1	48.5	32.5	11.0	81.2	62.3	37.8	22.6
14-Jan	67.0	57.1	50.5	32.7	8.0	84.0	63.3	38.0	22.5
21-Jan	67.0	56.7	51.5	33.4	14.0	82.6	64.1	36.9	21.2
28-Jan	71.0	59.6	54.6	35.1	16.0	88.9	67.3	41.5	24.2
4-Feb	68.0	59.5	51.6	32.9	16.0	86.8	68.5	36.5	20.0
11-Feb	72.0	62.1	56.9	36.8	19.0	83.3	63.3	42.8	24.3
18-Feb	72.0	58.1	59.3	40.9	23.0	86.8	64.5	48.3	28.5
25-Feb	75.0	57.0	58.9	38.8	22.0	77.0	61.5	40.1	24.1
4-Mar	78.0	61.9	63.0	42.3	25.0	84.0	66.8	50.7	30.0
11-Mar	78.0	62.2	64.5	43.9	27.0	86.8	66.8	51.1	30.7
18-Mar	79.0	63.6	65.9	44.8	31.0	89.6	69.1	52.9	29.6
25-Mar	81.0	61.9	67.4	48.2	34.0	95.9	66.6	57.8	36.7
1-Apr	81.0	60.1	68.8	47.2	34.0	93.8	68.8	54.7	33.3
8-Apr	83.0	63.1	71.4	50.3	37.0	96.6	70.5	60.3	38.3
15-Apr	84.0	63.2	73.6	52.6	39.0	96.6	70.7	63.5	42.2
22-Apr	86.0	67.8	75.0	54.2	41.0	107.1	73.2	68.6	45.6
29-Apr	85.0	66.6	76.5	56.2	46.0	106.4	72.6	74.4	51.7
6-May	86.0	68.1	77.7	58.0	47.0	111.3	76.7	80.0	56.4
13-May	88.0	70.6	79.8	60.4	49.0	123.2	81.0	85.3	63.3
20-May	89.0	71.3	81.0	62.4	51.0	114.1	78.3	90.9	68.8
27-May	91.0	72.7	83.1	64.6	55.0	122.5	79.7	98.6	76.6
3-Jun	94.0	74.2	85.2	66.9	58.0	127.4	80.3	104.1	80.2
10-Jun	92.0	72.5	85.4	67.0	60.0	123.2	80.9	103.1	79.5
17-Jun	94.0	73.8	86.8	68.7	62.0	127.4	80.1	108.8	85.6
24-Jun	94.0	73.7	87.2	69.2	62.0	131.6	80.9	110.9	86.9
1-Jul	95.0	74.3	87.3	70.2	65.0	135.8	86.8	116.2	92.6
8-Jul	97.0	76.2	90.0	71.6	66.0	141.4	90.0	120.5	96.0
15-Jul	98.0	75.8	89.7	71.7	68.0	136.5	85.3	121.5	98.5
22-Jul	97.0	75.7	88.6	71.6	67.0	135.8	82.7	124.2	101.4
29-Jul	95.0	74.2	87.5	70.6	65.0	135.8	83.3	119.6	96.1
5-Aug	94.0	76.1	87.4	70.7	65.0	131.6	82.3	121.0	99.4
12-Aug	95.0	76.3	86.9	70.6	66.0	135.8	83.6	119.2	98.0
19-Aug	95.0	75.2	87.5	70.6	65.0	135.8	80.7	117.0	95.5
26-Aug	93.0	73.7	86.4	70.1	61.0	131.6	80.9	116.4	94.8
2-Sep	92.0	74.4	83.8	67.9	60.0	126.7	79.0	109.9	89.3
9-Sep	91.0	74.4	83.9	67.1	56.0	130.2	87.2	107.1	85.1
16-Sep	90.0	74.0	81.1	63.9	51.0	133.0	77.1	99.9	75.8
23-Sep	88.0	71.8	77.2	60.3	50.0	122.5	79.0	88.4	66.3
30-Sep	85.0	69.5	75.5	57.0	45.0	118.3	76.9	79.8	58.9
7-Oct	82.0	67.8	72.7	54.4	44.0	110.6	73.9	73.1	53.2
14-Oct	82.0	68.3	72.1	51.9	39.0	110.6	72.3	67.8	47.7
21-Oct	79.0	65.2	70.2	51.1	39.0	100.1	70.3	65.2	45.5
28-Oct	79.0	65.1	68.5	50.4	37.0	102.9	69.4	65.7	45.3
4-Nov	76.0	64.3	65.2	45.8	30.0	99.4	70.4	59.0	37.5
11-Nov	76.0	64.3	62.7	43.1	30.0	99.4	69.6	51.3	32.5
18-Nov	73.0	61.3	62.6	44.1	30.0	98.7	68.4	55.1	35.0
25-Nov	73.0	66.2	59.4	41.9	27.0	99.4	68.8	53.6	33.1
2-Dec	70.0	62.5	57.3	38.2	25.0	96.6	68.4	44.9	26.5
9-Dec	70.0	61.1	55.2	37.2	21.0	84.0	62.9	43.4	26.2
16-Dec	68.0	59.2	51.1	34.3	16.0	80.5	65.1	38.8	23.1
23-Dec	69.0	62.7	52.3	35.3	9.0	87.5	65.6	42.2	24.9
31-Dec	68.0	63.0	51.3	35.5	15.0	87.5	67.6	42.9	25.8

ATLANTA INTL ARPT GA

WMO No. 722190

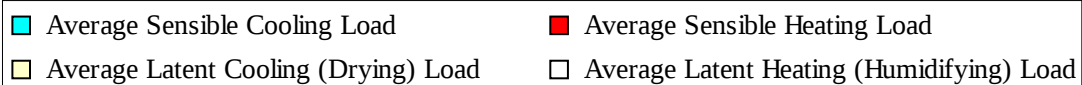
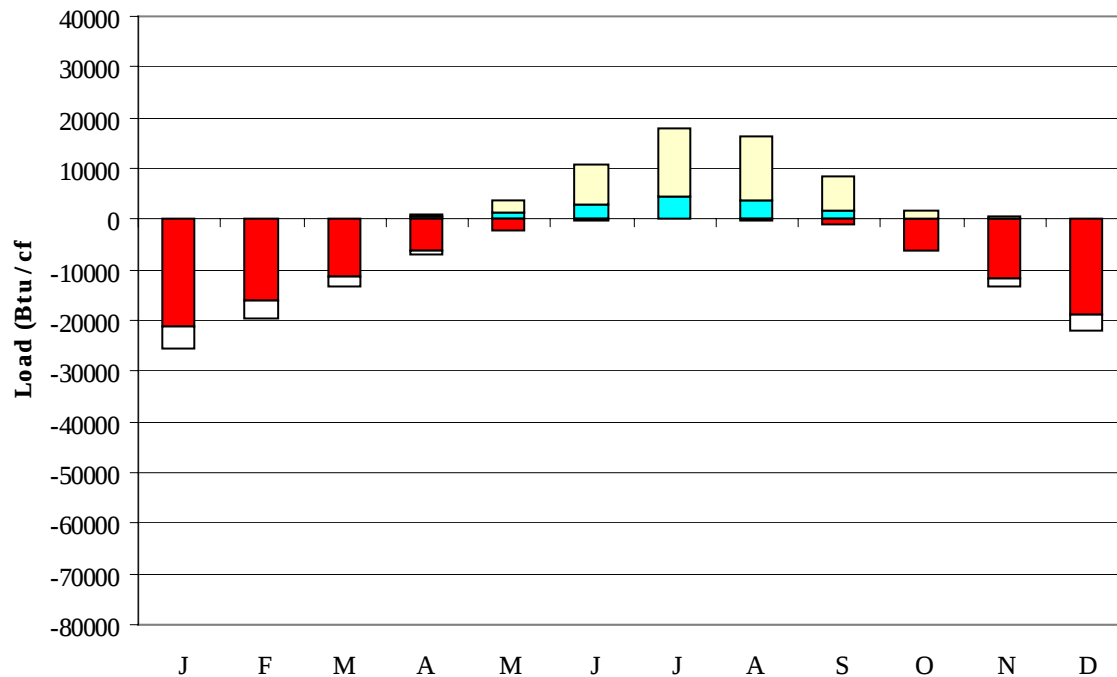
Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	1	729
FEB	7	540
MAR	34	365
APR	88	180
MAY	197	51
JUN	351	5
JUL	441	0
AUG	404	1
SEP	250	26
OCT	80	170
NOV	21	369
DEC	4	629
ANN	1877	3065

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	0	-21268	18	-4095
FEB	4	-16100	55	-3373
MAR	81	-11512	87	-1861
APR	405	-6200	422	-719
MAY	1212	-2190	2654	-28
JUN	3044	-312	7567	0
JUL	4346	-36	13414	0
AUG	3549	-72	12904	0
SEP	1709	-1200	6822	-1
OCT	265	-6008	1254	-249
NOV	16	-11610	385	-1586
DEC	0	-18651	105	-3370
ANN	14631	-95159	45687	-15282

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

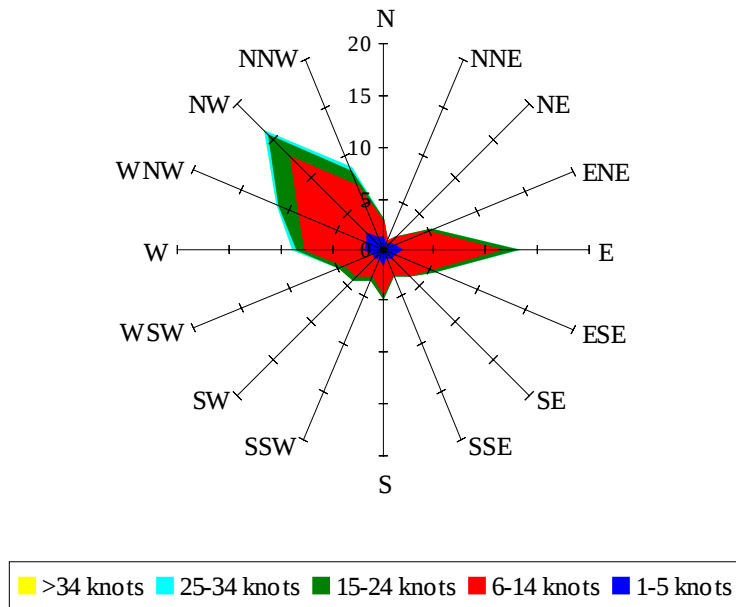
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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

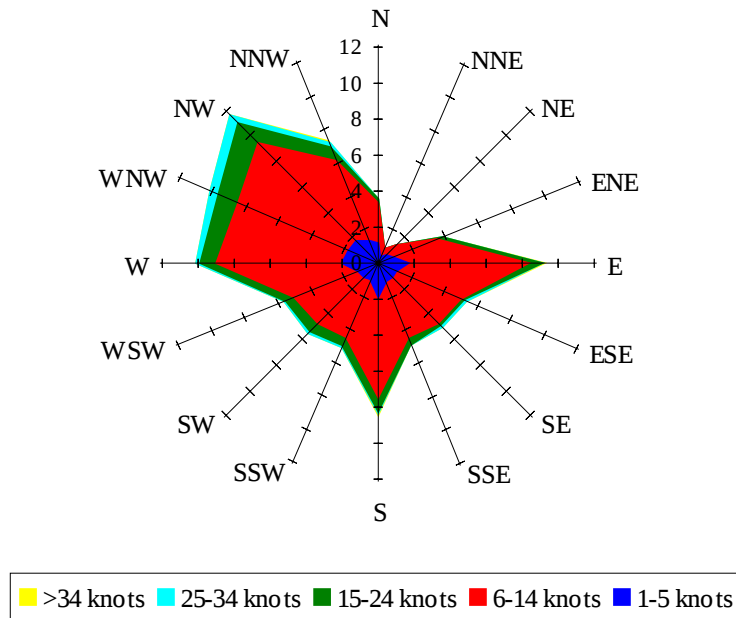
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	16	61	88	88	61	12	46	60	47	13
	M.Cloudy	10	37	60	63	42	7	25	34	27	8
NORTH	M.Clear	6	14	17	18	15	5	10	12	10	5
	M.Cloudy	5	14	19	19	15	3	10	13	11	4
EAST	M.Clear	43	76	44	18	15	40	52	13	10	5
	M.Cloudy	12	33	32	19	15	8	20	13	11	4
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 = 3.47

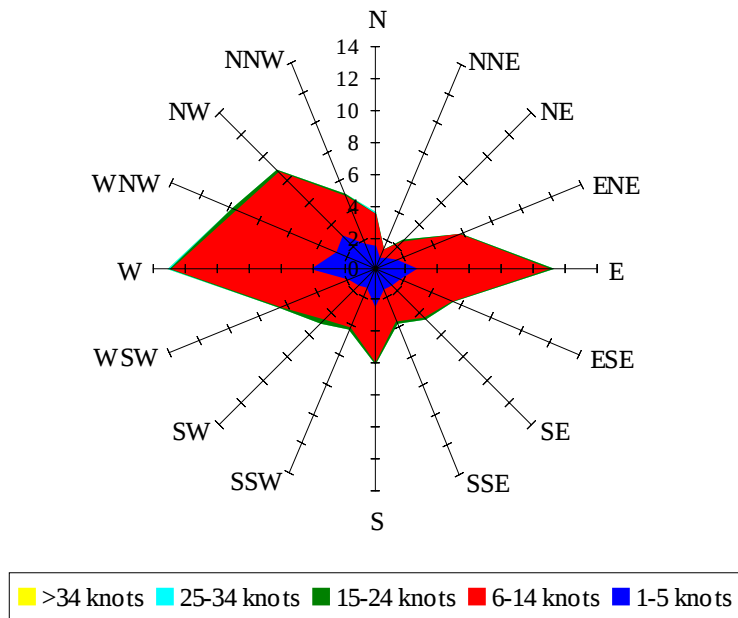
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 3.19

Wind Summary - June, July, and August

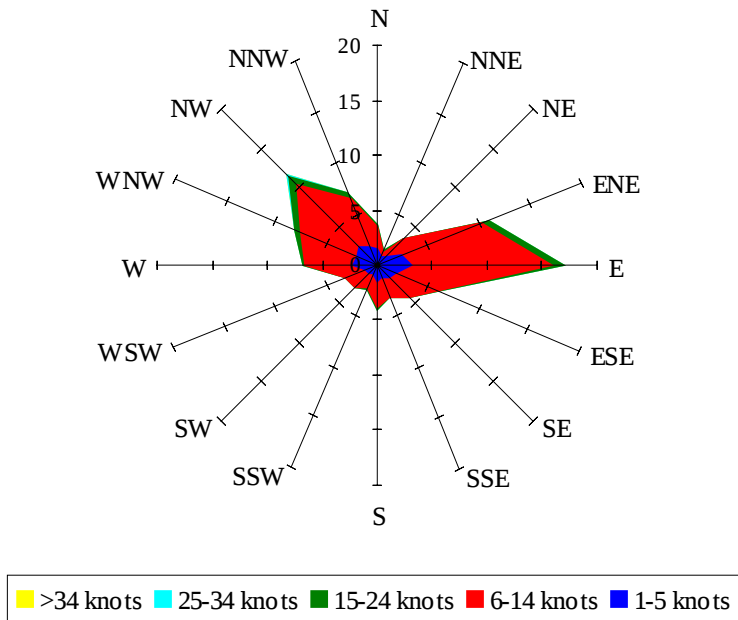
Labels of Percent Frequency on North Axis



Percent Calm = 4.33

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 4.40