

CHARLESTON SC

Latitude = 32.90 N

WMO No. 722080

Longitude = 80.03 W

Elevation = 49 feet

Period of Record = 1967 to 1996

Average Pressure = 29.99 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	78	115	9.7	WSW
0.4% Occurrence	94	78	122	10.1	W
1.0% Occurrence	92	78	120	10.2	W
2.0% Occurrence	90	77	118	10.2	S
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	32	29	18	7.2	N
99.0% Occurrence	28	25	14	6.8	N
99.6% Occurrence	25	22	12	6.9	N
Median of Extreme Lows	19	17	8	8.9	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	83	92	151	9.8	SSW
0.4% Occurrence	80	89	137	9.6	S
1.0% Occurrence	79	87	133	9.4	S
2.0% Occurrence	78	86	130	9.1	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	156	87	1.04	8.9	S
0.4% Occurrence	146	84	0.97	8.2	S
1.0% Occurrence	141	84	0.94	8.2	S
2.0% Occurrence	135	82	0.90	7.8	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		71	1454	1820	3372

Other Site Data

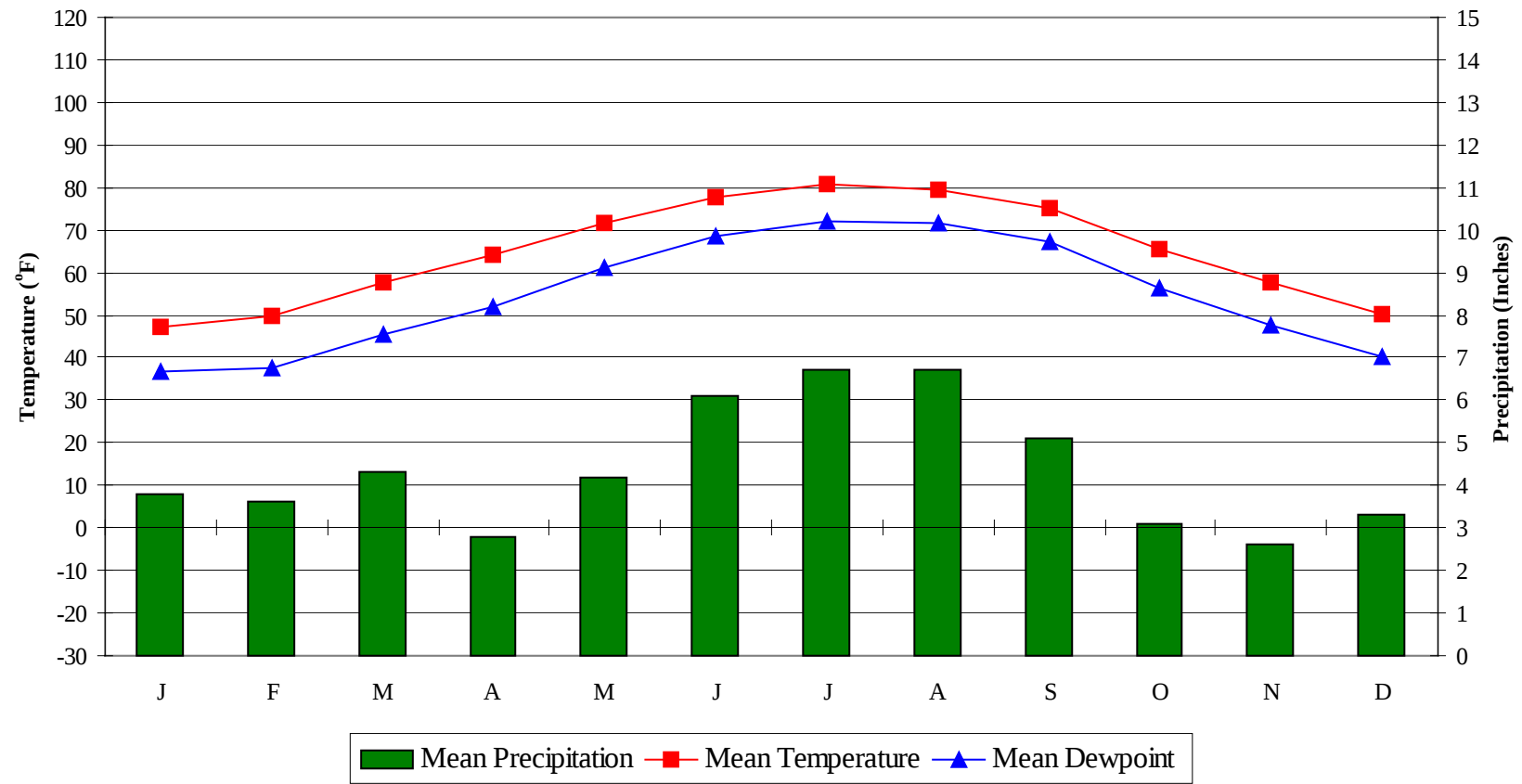
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
11	4.3	130	6.6 + 1.5
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
67.3	0	2	21

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

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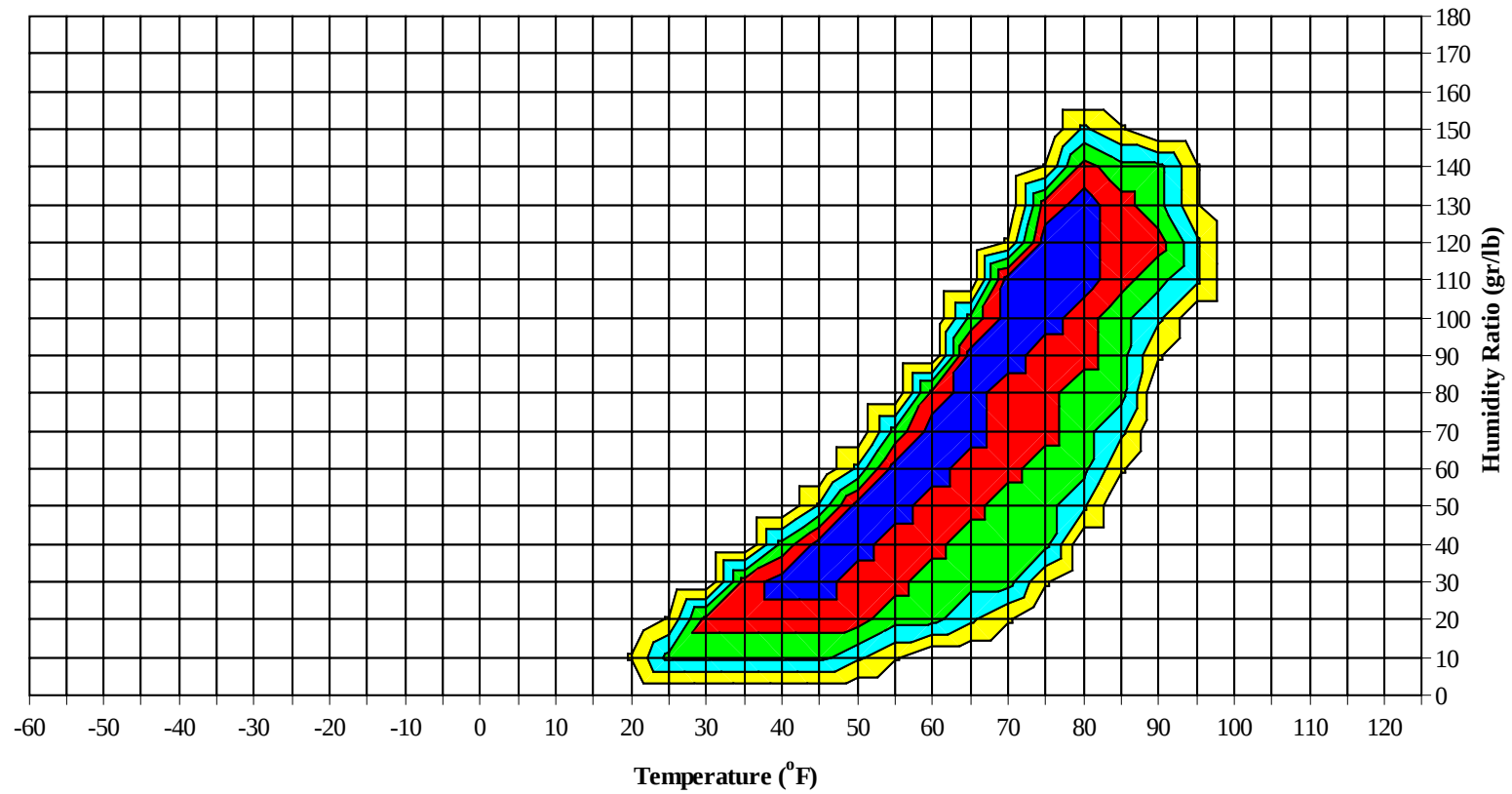
Average Annual Climate



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Long Term Psychrometric Summary

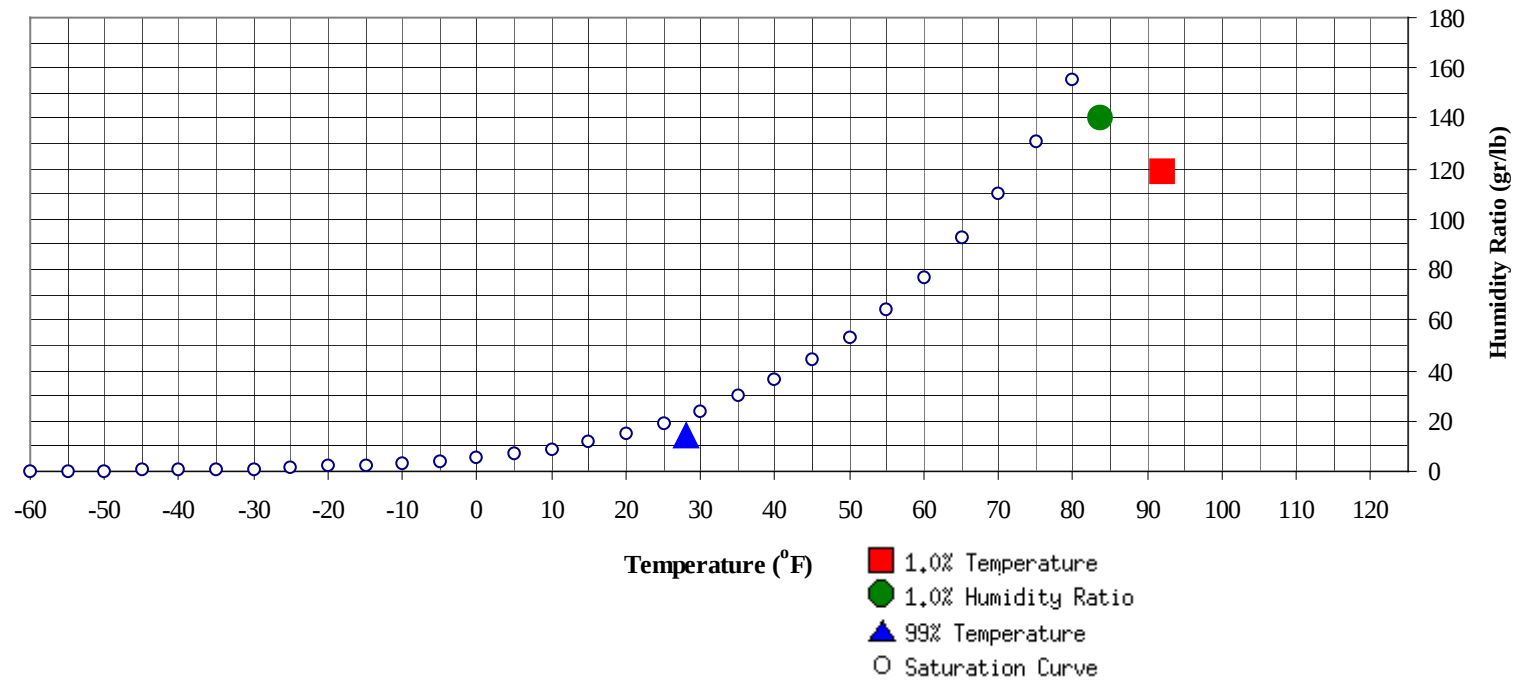


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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	28	14.4	8.9		140.7	83.6	78.8	77	42.1

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	92	119.3	77.7	40.9

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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							0		0	68.5		0		0	66.0
80 / 84		0		0	65.8		1		1	68.3		10	1	11	65.1
75 / 79		3	0	4	65.5		7	1	8	64.4		23	5	28	63.8
70 / 74	0	11	2	14	62.5	0	20	4	24	60.9	2	42	16	60	61.2
65 / 69	5	20	9	35	60.5	5	27	15	47	59.1	17	45	36	98	59.3
60 / 64	16	30	24	71	57.0	20	31	30	81	56.2	39	47	55	141	56.3
55 / 59	19	36	27	82	51.8	19	32	32	83	51.2	42	33	48	124	51.9
50 / 54	26	41	42	109	47.2	27	35	36	97	46.2	44	21	39	104	47.4
45 / 49	37	39	46	122	42.9	33	27	37	97	41.9	39	15	27	80	42.6
40 / 44	39	29	38	106	38.0	36	23	33	92	37.7	28	8	14	49	38.1
35 / 39	39	19	29	87	33.4	35	13	21	68	33.2	22	3	6	31	33.6
30 / 34	35	11	19	66	28.8	27	6	11	44	28.8	10	0	2	12	29.2
25 / 29	22	5	8	34	24.2	16	2	4	22	24.5	2	0	0	2	24.3
20 / 24	8	1	2	12	19.6	5	0	0	5	19.9	0	0	0	1	21.6
15 / 19	3	0	1	4	14.8	1		0	1	15.9	0			0	15.2
10 / 14	1	0		1	10.6	0			0	12.0					
5 / 9	0	0		0	4.6										

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.

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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							1	0	1	75.1		6	1	7	77.5
90 / 94		2	0	2	68.6		9	1	9	73.0		29	4	33	76.6
85 / 89		10	1	12	67.7		33	5	38	71.7	0	70	16	87	74.8
80 / 84		28	4	33	66.6	1	75	20	96	69.8	12	81	53	146	73.1
75 / 79	1	51	14	65	64.6	15	68	52	134	68.2	71	36	89	196	72.4
70 / 74	12	54	40	106	62.6	61	41	81	184	66.5	100	14	60	174	69.4
65 / 69	42	45	61	148	60.6	76	13	53	143	63.6	42	3	14	58	64.7
60 / 64	57	30	56	143	56.9	50	6	24	80	58.9	13	1	3	16	60.1
55 / 59	45	12	32	90	52.5	28	2	10	40	54.0	3	0	0	3	55.1
50 / 54	41	6	21	68	48.1	15	1	3	18	50.1	0		0	0	51.8
45 / 49	27	1	7	34	43.9	3	0	0	3	45.7					
40 / 44	13	0	2	15	39.3	0			0	41.4					
35 / 39	4		0	4	35.0										
30 / 34	0			0	30.6										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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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		1	78.9		0		0	79.9					
95 / 99		13	1	15	79.1		5	0	5	79.3		1		1	78.6
90 / 94		60	10	70	78.3		44	5	49	78.3		13	1	14	77.1
85 / 89	1	90	35	126	76.7	0	90	23	114	76.6	0	53	7	60	75.4
80 / 84	38	56	88	183	75.6	22	67	74	163	75.4	3	81	36	120	73.5
75 / 79	124	22	85	231	73.8	115	30	101	246	73.8	44	49	85	179	72.2
70 / 74	75	5	27	107	70.5	92	9	39	140	70.5	103	29	72	204	69.2
65 / 69	9	0	1	11	65.9	16	1	4	21	65.2	49	9	26	85	64.1
60 / 64	1		0	1	61.6	3	1	1	5	60.9	27	4	11	42	59.0
55 / 59						0	0		1	56.4	10	1	3	13	54.4
50 / 54											3	0	1	3	50.7
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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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	0	1	75.8										
85 / 89		8	0	8	72.5		0		0	71.0					
80 / 84	0	41	5	46	70.4		7	0	7	69.5		0		0	71.0
75 / 79	7	58	24	88	68.4	0	32	2	34	67.0		8	0	9	66.9
70 / 74	25	57	55	138	65.9	9	45	21	74	64.9	2	21	5	29	64.5
65 / 69	49	40	57	146	62.4	25	40	39	104	62.1	10	27	16	53	61.4
60 / 64	52	26	46	124	57.8	33	38	44	115	57.1	17	36	31	84	56.9
55 / 59	44	11	31	86	53.3	33	33	39	105	52.0	25	38	37	100	52.1
50 / 54	34	4	19	57	48.7	37	24	36	96	47.4	33	42	43	119	47.4
45 / 49	26	1	8	35	44.3	34	13	29	76	43.0	37	34	44	115	42.6
40 / 44	8	0	2	10	39.9	31	6	20	57	38.7	38	22	32	91	38.1
35 / 39	3		0	3	36.1	25	1	8	34	34.2	32	12	22	66	33.5
30 / 34	1		0	1	31.6	12	0	2	14	30.1	34	5	14	52	29.0
25 / 29	0			0	27.5	3	0	0	3	25.3	16	2	3	20	24.5
20 / 24						0			0	24.0	3	0	1	4	19.7
15 / 19											1	0	1	2	15.8
10 / 14											0	0		0	10.1
5 / 9															

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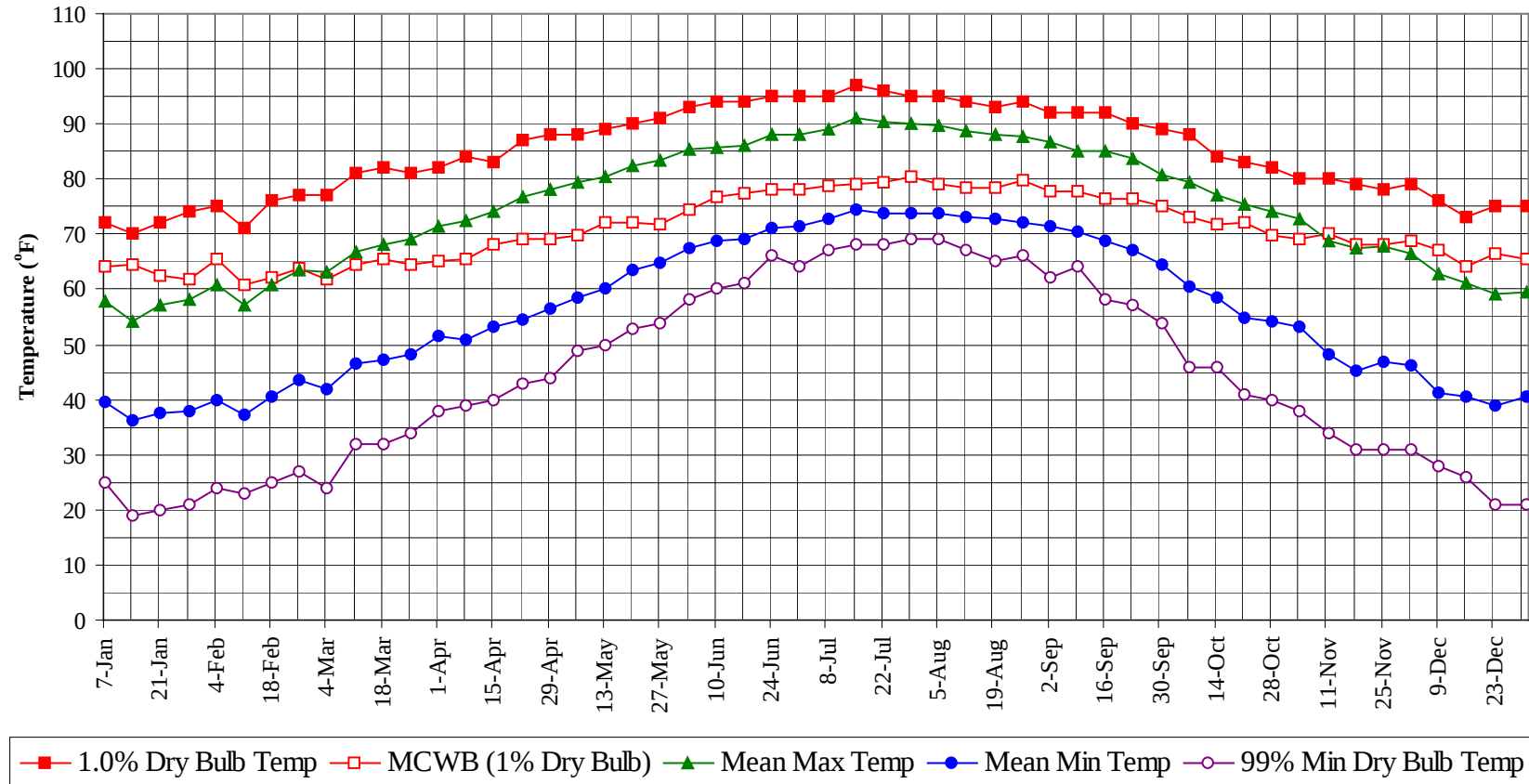
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

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	79.1
95 / 99		26	3	28	78.7
90 / 94		157	21	178	77.5
85 / 89	2	355	87	444	75.4
80 / 84	77	446	280	803	73.2
75 / 79	375	386	457	1217	71.3
70 / 74	480	349	421	1251	67.2
65 / 69	344	272	332	947	62.0
60 / 64	328	249	326	904	57.3
55 / 59	268	199	260	727	52.3
50 / 54	259	173	240	672	47.5
45 / 49	235	131	199	565	42.8
40 / 44	194	89	140	423	38.1
35 / 39	160	48	87	295	33.5
30 / 34	120	23	48	191	29.0
25 / 29	58	8	16	83	24.4
20 / 24	16	2	4	22	19.8
15 / 19	5	1	1	7	15.2
10 / 14	1	0		2	10.6
5 / 9	0	0		0	4.6

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.

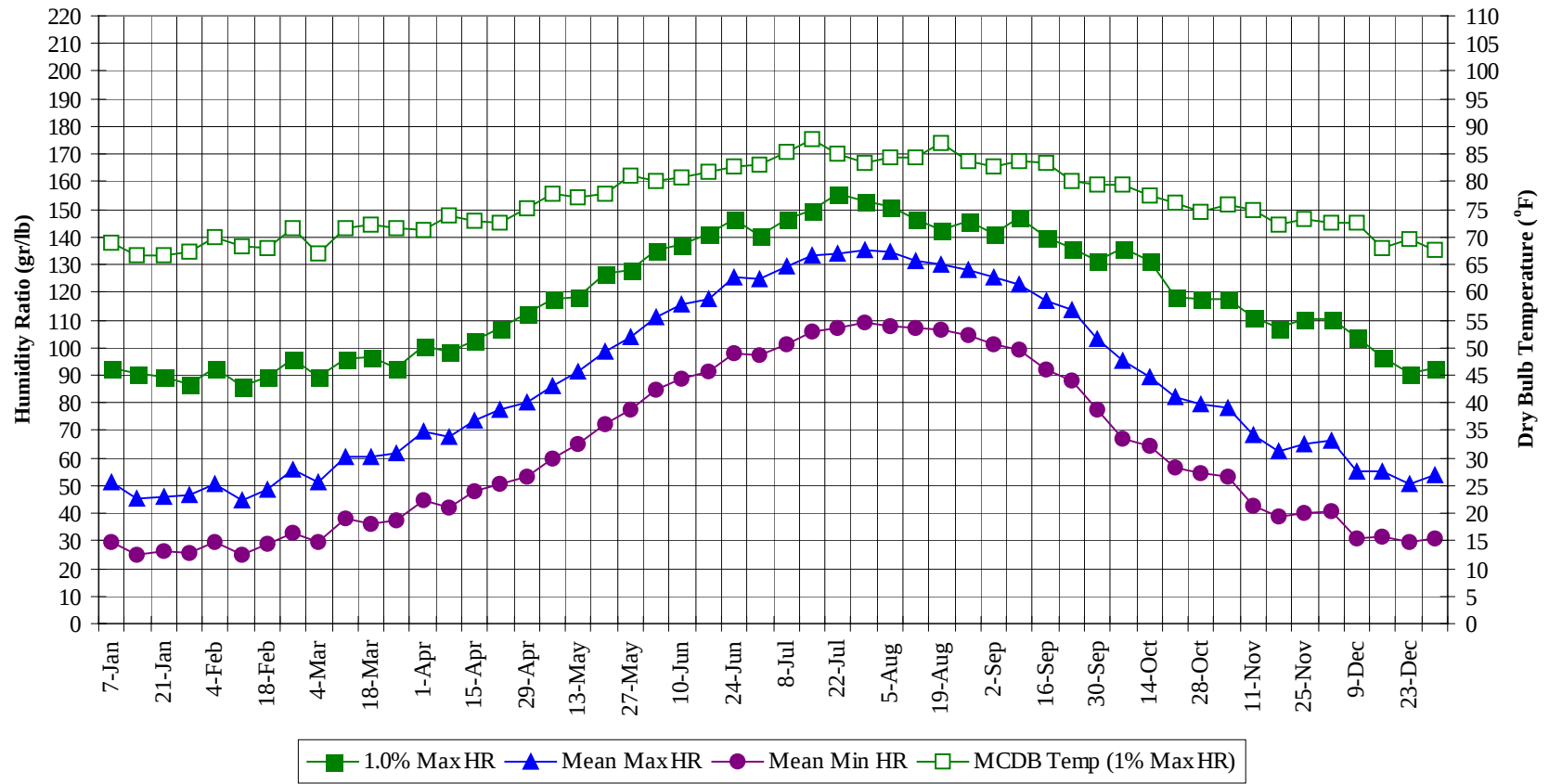
Annual Summary of Temperatures



CHARLESTON SC

WMO No. 722080

Long Term Humidity and Dry Bulb Temperature Summary



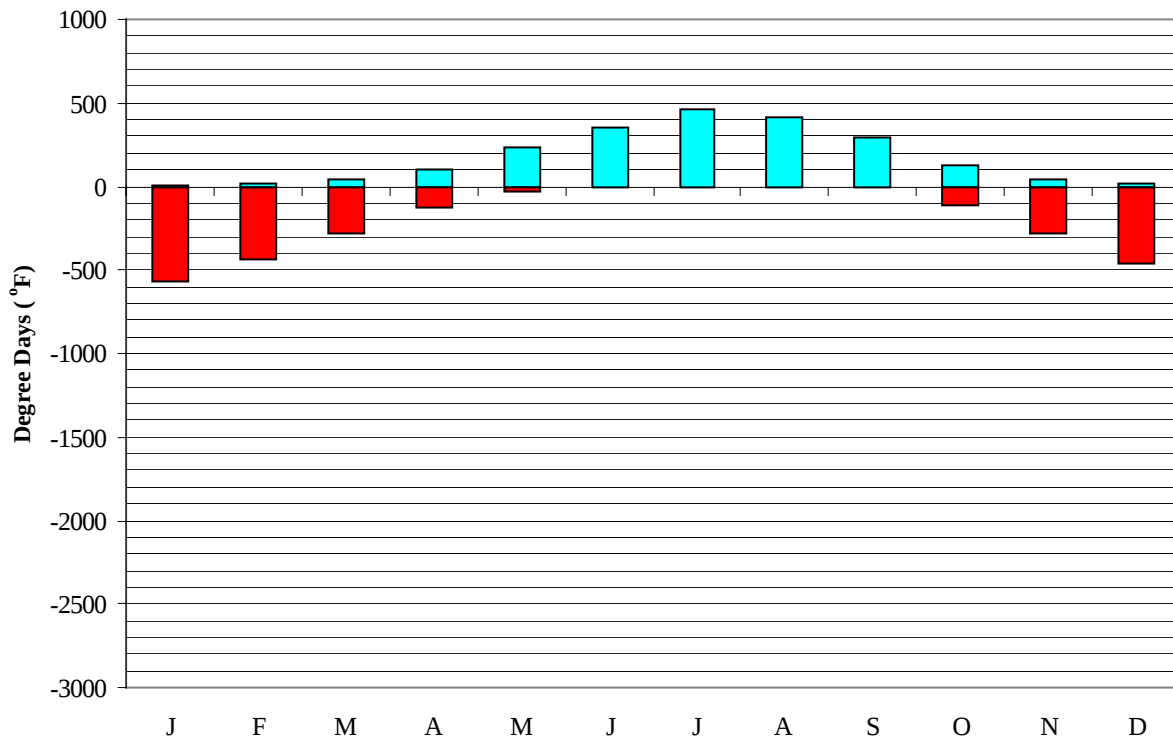
CHARLESTON SC**WMO No. 722080****Long Term Dry Bulb Temperature and Humidity Summary**

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	72.0	64.0	57.8	39.6	25.0	92.4	69.1	51.4	29.8
14-Jan	70.0	64.6	54.3	36.1	19.0	90.3	66.8	45.4	25.0
21-Jan	72.0	62.4	57.3	37.5	20.0	89.6	66.5	46.2	26.3
28-Jan	74.0	61.7	58.3	37.8	21.0	86.8	67.2	46.5	25.5
4-Feb	75.0	65.5	60.7	39.8	24.0	92.4	69.9	50.5	29.8
11-Feb	71.0	60.8	57.1	37.3	23.0	86.1	68.2	44.4	25.0
18-Feb	76.0	62.2	61.0	40.4	25.0	89.6	67.9	48.7	28.7
25-Feb	77.0	63.9	63.6	43.5	27.0	95.9	71.5	55.9	32.6
4-Mar	77.0	61.7	63.1	41.7	24.0	89.6	66.9	51.2	29.6
11-Mar	81.0	64.5	66.8	46.5	32.0	95.9	71.7	60.7	38.1
18-Mar	82.0	65.3	68.1	47.0	32.0	96.6	72.2	60.4	36.0
25-Mar	81.0	64.5	69.2	48.1	34.0	92.4	71.6	62.0	37.4
1-Apr	82.0	65.2	71.5	51.7	38.0	100.8	71.4	69.4	44.7
8-Apr	84.0	65.6	72.6	51.0	39.0	98.7	73.9	67.6	41.9
15-Apr	83.0	68.1	74.0	53.2	40.0	102.2	72.9	73.5	47.9
22-Apr	87.0	69.2	76.7	54.3	43.0	107.1	72.7	77.3	50.6
29-Apr	88.0	69.2	78.2	56.7	44.0	112.0	75.3	80.3	53.3
6-May	88.0	69.8	79.4	58.7	49.0	117.6	77.7	86.2	59.5
13-May	89.0	72.2	80.6	60.1	50.0	118.3	77.2	91.6	64.7
20-May	90.0	72.1	82.6	63.4	53.0	126.7	77.9	98.8	72.4
27-May	91.0	71.7	83.5	64.9	54.0	128.1	81.0	103.7	77.5
3-Jun	93.0	74.4	85.5	67.4	58.0	135.1	80.1	110.8	84.9
10-Jun	94.0	76.6	85.8	68.8	60.0	137.2	80.9	115.6	88.5
17-Jun	94.0	77.3	86.2	69.2	61.0	141.4	81.8	117.3	91.4
24-Jun	95.0	78.2	88.1	71.2	66.0	146.3	82.8	125.2	97.9
1-Jul	95.0	78.2	88.1	71.4	64.0	140.7	83.1	125.0	97.2
8-Jul	95.0	78.9	89.1	72.7	67.0	146.3	85.5	129.2	101.4
15-Jul	97.0	79.0	91.1	74.4	68.0	149.8	87.6	133.4	106.1
22-Jul	96.0	79.4	90.3	73.8	68.0	155.4	85.1	133.9	107.1
29-Jul	95.0	80.4	90.1	73.8	69.0	153.3	83.5	135.2	108.9
5-Aug	95.0	79.1	89.8	73.8	69.0	151.2	84.3	134.8	107.5
12-Aug	94.0	78.5	88.7	73.0	67.0	146.3	84.3	131.4	106.9
19-Aug	93.0	78.3	88.2	72.6	65.0	142.8	87.0	129.9	106.4
26-Aug	94.0	79.7	87.7	72.3	66.0	145.6	83.6	128.2	104.4
2-Sep	92.0	77.9	86.9	71.4	62.0	141.4	82.9	125.2	101.4
9-Sep	92.0	77.7	85.2	70.5	64.0	147.0	83.6	123.0	99.0
16-Sep	92.0	76.4	84.9	68.9	58.0	140.0	83.3	117.0	91.9
23-Sep	90.0	76.5	83.7	67.2	57.0	135.8	80.1	113.9	87.9
30-Sep	89.0	75.2	80.9	64.3	54.0	131.6	79.6	102.8	77.6
7-Oct	88.0	73.2	79.5	60.3	46.0	135.8	79.3	95.2	67.2
14-Oct	84.0	71.7	77.1	58.4	46.0	131.6	77.4	89.1	64.6
21-Oct	83.0	72.1	75.6	54.9	41.0	118.3	76.2	81.9	56.4
28-Oct	82.0	69.7	74.1	54.2	40.0	117.6	74.7	79.3	54.4
4-Nov	80.0	69.0	72.7	53.3	38.0	117.6	75.8	78.3	53.5
11-Nov	80.0	70.1	68.9	48.3	34.0	111.3	75.0	68.6	42.8
18-Nov	79.0	68.3	67.3	45.4	31.0	107.1	72.3	62.5	38.5
25-Nov	78.0	68.2	67.6	46.7	31.0	110.6	73.3	65.0	39.8
2-Dec	79.0	68.8	66.3	46.2	31.0	110.6	72.7	66.0	40.4
9-Dec	76.0	67.0	62.8	41.3	28.0	103.6	72.7	55.0	31.1
16-Dec	73.0	64.0	61.2	40.7	26.0	96.6	68.0	55.3	31.7
23-Dec	75.0	66.4	59.1	39.0	21.0	90.3	69.5	50.5	29.3
31-Dec	75.0	65.6	59.4	40.7	21.0	92.4	67.8	53.8	31.0

CHARLESTON SC

WMO No. 722080

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



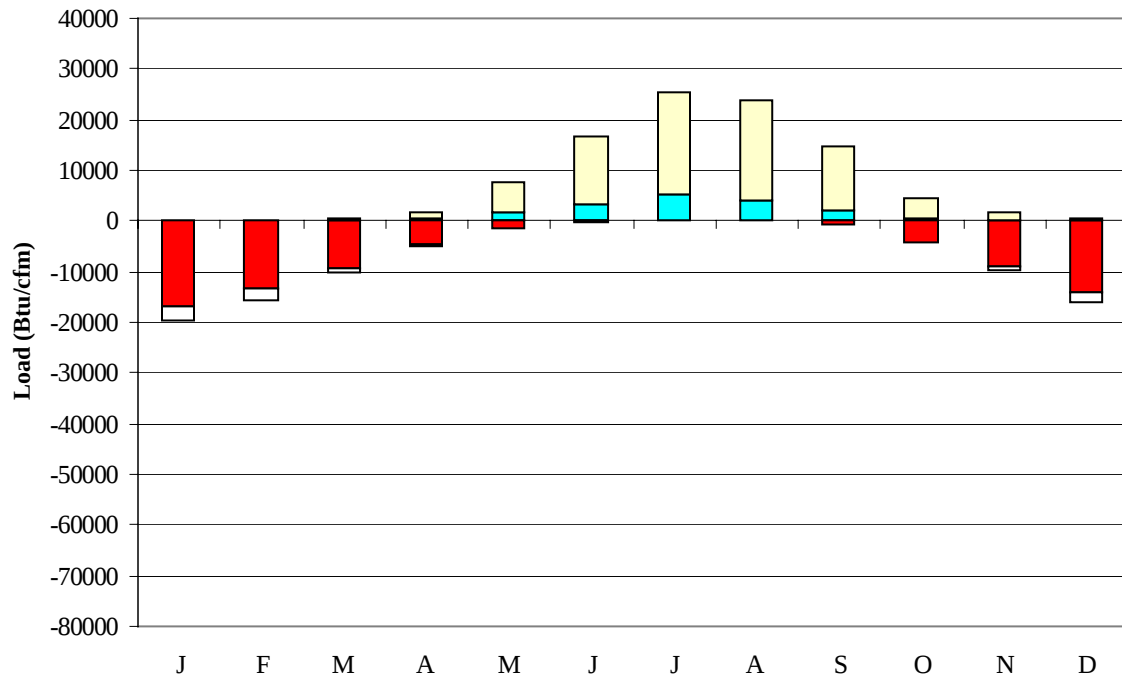
■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	8	563
FEB	14	442
MAR	44	280
APR	102	126
MAY	228	33
JUN	355	3
JUL	460	0
AUG	417	1
SEP	290	10
OCT	125	114
NOV	47	276
DEC	15	458
ANN	2104	2306

CHARLESTON SC

WMO No. 722080

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	6	-16900	161	-2675
FEB	22	-13476	188	-2213
MAR	153	-9170	428	-1047
APR	540	-4629	1285	-257
MAY	1610	-1478	5895	-5
JUN	3307	-187	13484	0
JUL	5086	-11	20441	0
AUG	4159	-52	19473	0
SEP	2225	-544	12490	0
OCT	604	-4166	3915	-76
NOV	107	-8918	1487	-803
DEC	13	-14006	405	-1940
ANN	17832	-73537	79652	-9016

Average Annual Solar Radiation – Nearest Available Site

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

City: CHARLESTON
 State: SC
 WBAN No: 13880
 Lat(N): 32.9
 Long(W): 80.03
 Elev(ft): 39

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.994
 Vert Gap: 0.66

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	860	1120	1480	1860	1970	1970	1930	1730	1490	1280	970	800	1460
	Std Dev	57	98	108	113	120	137	124	113	137	106	76	61	34
	Minimum	730	970	1240	1650	1590	1760	1510	1520	1170	1020	740	690	1360
	Maximum	1000	1360	1660	2140	2160	2200	2140	1990	1770	1460	1090	910	1520
	Diffuse	360	450	570	680	850	920	930	860	730	510	390	330	630
Clear Day	Global	1180	1510	1930	2310	2510	2570	2490	2290	1970	1570	1210	1070	1890
NORTH	Global	240	300	370	460	570	620	600	500	420	340	260	220	410
	Diffuse	240	300	370	440	510	540	530	480	420	340	260	220	390
Clear Day	Global	220	270	340	430	580	680	620	490	390	310	240	210	400
EAST	Global	540	680	870	1060	1080	1050	1050	980	860	780	610	520	840
	Diffuse	290	360	460	550	630	650	650	610	530	420	320	270	480
Clear Day	Global	810	990	1170	1320	1370	1360	1320	1260	1150	990	810	740	1110
SOUTH	Global	1180	1220	1150	970	750	660	690	800	980	1240	1260	1190	1010
	Diffuse	380	450	510	540	560	560	570	570	560	500	430	380	500
Clear Day	Global	1990	1930	1630	1170	830	700	750	1010	1400	1740	1880	1930	1410
WEST	Global	540	690	850	1030	1030	1010	980	900	820	760	610	510	810
	Diffuse	290	370	460	560	630	650	640	600	520	420	320	270	480
Clear Day	Global	810	990	1170	1320	1370	1360	1320	1260	1150	990	810	740	1110

Average Annual Solar Heat and Illumination – Nearest Available Site

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

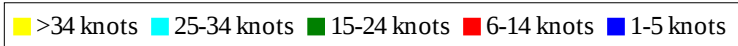
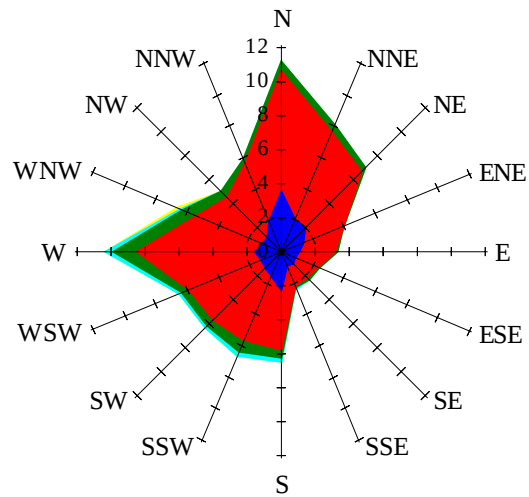
AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	580	780	1060	1350	1430	1430	1400	1250	1070	910	670	530	1040
NORTH	Unshaded	170	210	260	310	370	410	390	340	290	230	180	160	280
	Shaded	140	180	230	270	320	340	330	290	250	200	160	130	240
EAST	Unshaded	380	480	620	750	770	750	750	700	610	550	420	350	590
	Shaded	320	400	500	600	610	590	590	550	490	450	350	300	480
SOUTH	Unshaded	880	880	770	600	450	410	420	500	640	870	930	890	690
	Shaded	820	700	400	320	330	330	340	330	330	600	840	860	520
WEST	Unshaded	380	490	610	740	730	710	690	640	580	540	420	350	570
	Shaded	320	410	490	590	580	560	540	500	470	440	350	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	38	78	91	76	37	38	80	103	99	72
	M.Cloudy	23	50	59	49	23	27	58	78	74	49
NORTH	M.Clear	10	14	16	14	10	23	17	18	18	17
	M.Cloudy	9	16	18	16	9	16	18	20	19	16
EAST	M.Clear	76	65	16	14	10	66	75	39	18	17
	M.Cloudy	30	37	18	16	9	36	50	33	19	16
SOUTH	M.Clear	33	65	76	64	31	12	21	35	34	18
	M.Cloudy	16	37	45	37	16	11	20	31	29	17
WEST	M.Clear	10	14	16	65	73	12	17	18	47	75
	M.Cloudy	9	16	18	37	31	11	18	20	37	44
M.Clear	(% hrs)	40	41	39	39	38	35	34	29	29	35

		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	22	66	89	84	53	17	50	60	43	9
	M.Cloudy	15	45	64	60	37	10	30	36	27	6
NORTH	M.Clear	8	16	18	18	14	6	11	12	10	4
	M.Cloudy	7	16	19	19	14	5	11	13	10	3
EAST	M.Clear	50	73	37	18	14	47	48	12	10	4
	M.Cloudy	21	41	30	19	14	14	24	13	10	3
SOUTH	M.Clear	14	48	67	62	38	38	81	92	73	22
	M.Cloudy	8	29	45	42	24	12	35	41	31	7
WEST	M.Clear	8	16	18	48	69	6	11	18	53	31
	M.Cloudy	7	16	19	35	38	5	11	15	24	9
M.Clear	(% hrs)	41	38	31	28	33	39	39	39	38	40

Wind Summary - December, January, and February

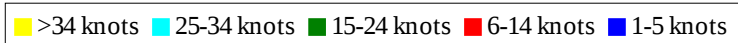
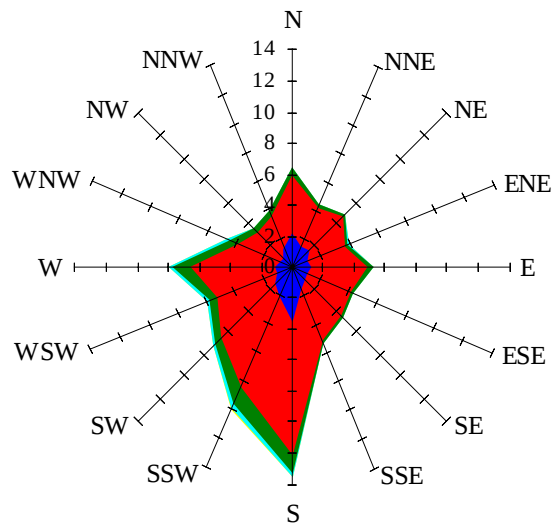
Labels of Percent Frequency on North Axis



Percent Calm = 6.53

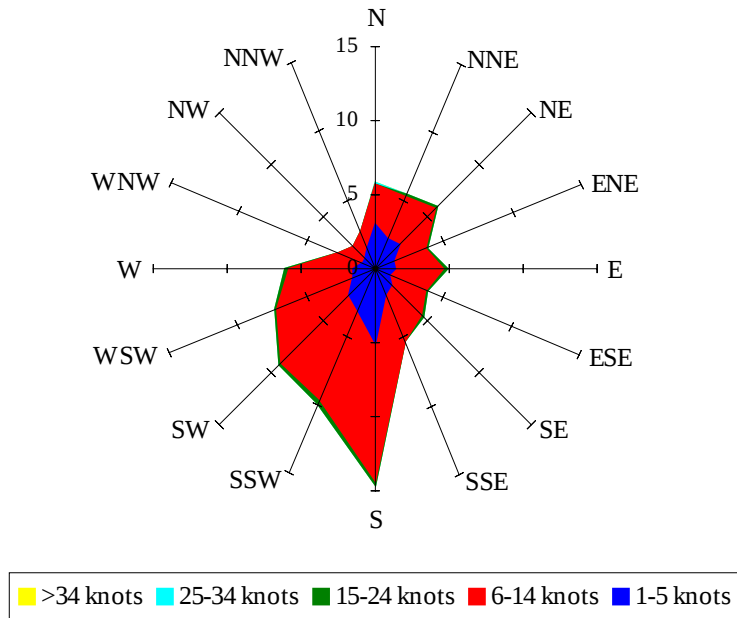
Wind Summary - March, April, and May

Labels of Percent Frequency on North Axis



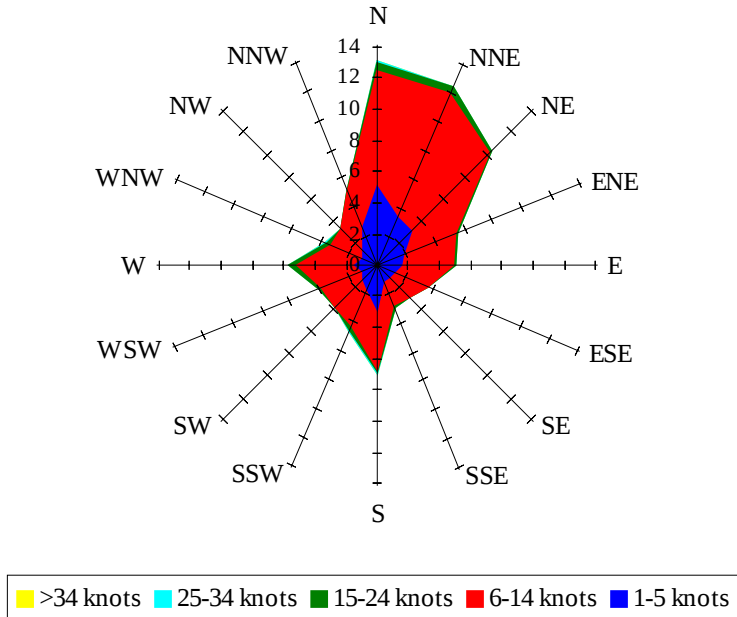
Percent Calm = 5.69

Wind Summary - June, July, and August **Labels of Percent Frequency on North Axis**



Percent Calm = 6.15

Wind Summary - September, October, and November **Labels of Percent Frequency on North Axis**



Percent Calm = 7.72