

COLUMBUS METROPOLITAN, GA

Latitude = 32.52 N

Longitude = 84.94 W

Period of Record = 1988 To 2017

Station ID = ICAO_KCSG

Elevation = 397 Feet

Average Pressure = 29.64 inches Hg

Design Criteria Data

Dry Bulb Temperature (T)	Mean Coincident (Average) Values				
	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	99	75	93	8	VRB
0.4% Occurrence	97	75	96	8.2	W
1.0% Occurrence	93	74	100	7.9	W
2.0% Occurrence	92	74	99	7.6	W
Mean Daily Range	20	-	-	-	NNW
97.5% Occurrence	34	30	20	4.7	NNW
99.0% Occurrence	29	26	15	4.4	NNW
99.6% Occurrence	26	23	12	5.4	N
Median of Extreme Lows	19	16	8	6.4	N

Wet Bulb Temperature (T_{wb})	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	80	91	133	7.6	W
0.4% Occurrence	78	89	125	6.9	W
1.0% Occurrence	77	87	122	6.6	W
2.0% Occurrence	76	86	119	6.3	W

Humidity Ratio (HR)	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	143	83	0.94	5.8	W
0.4% Occurrence	134	82	0.88	4.9	W
1.0% Occurrence	128	80	0.84	5.6	W
2.0% Occurrence	126	81	0.83	5	W

Air Conditioning/ Humid Area Criteria	Threshold	$T \geq 93^{\circ}\text{F}$	$T \geq 80^{\circ}\text{F}$	$T_{wb} \geq 73^{\circ}\text{F}$	$T_{wb} \geq 67^{\circ}\text{F}$
	# of Hours	154	1610	1358	3023

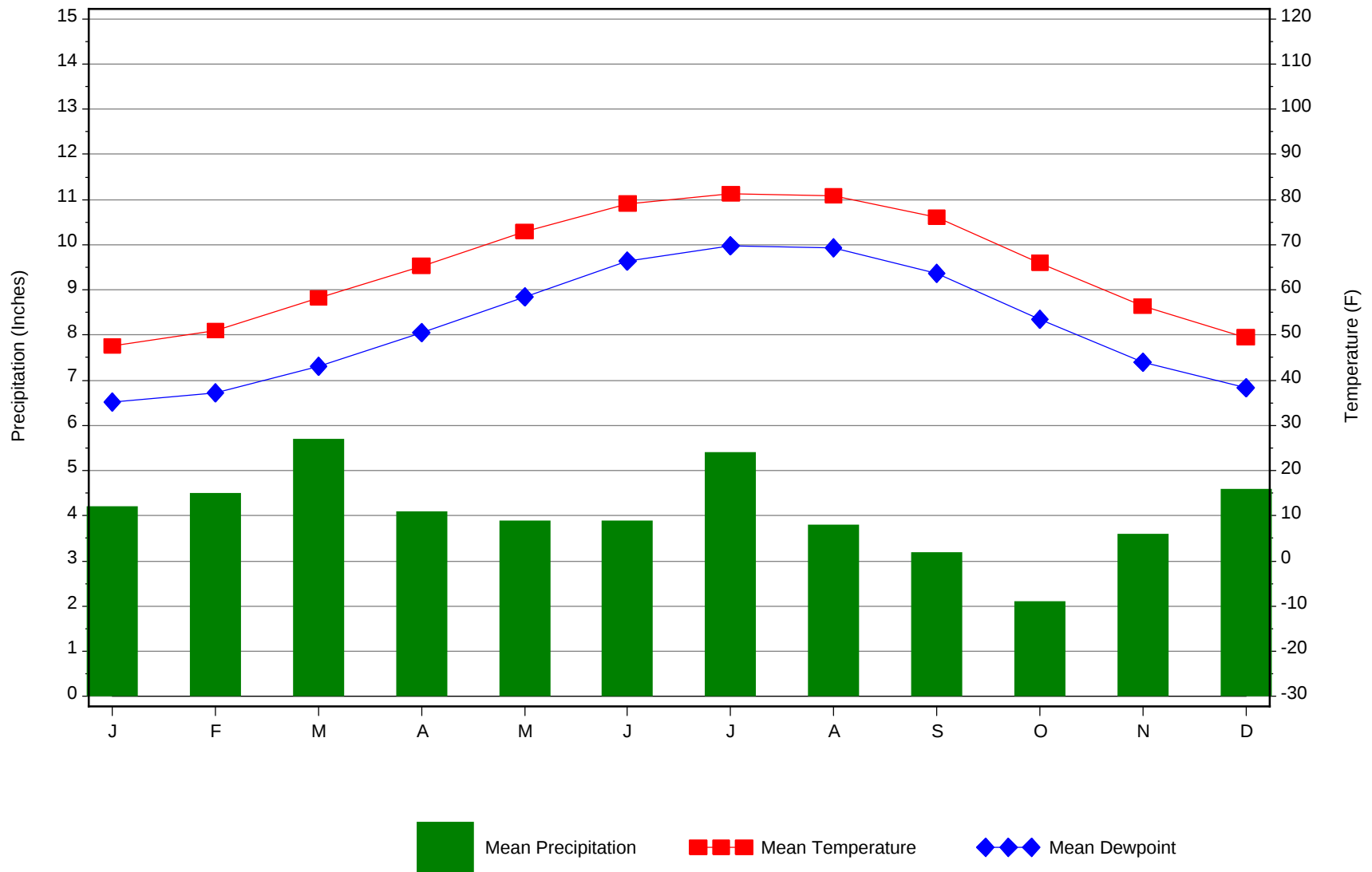
Other Site Data

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	90	4.8 + 1.8
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 (#)
67.9	N/A	1	20

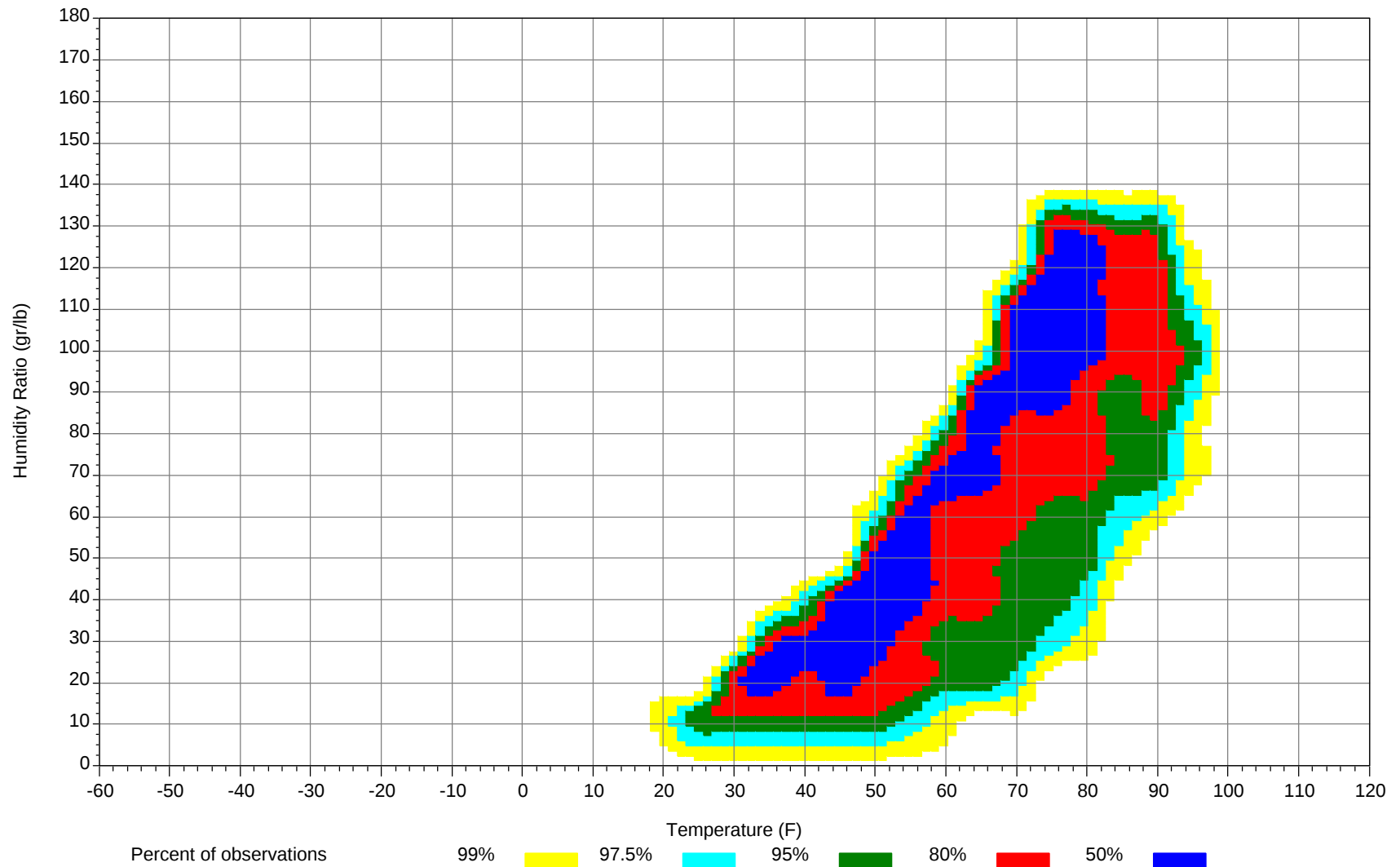
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



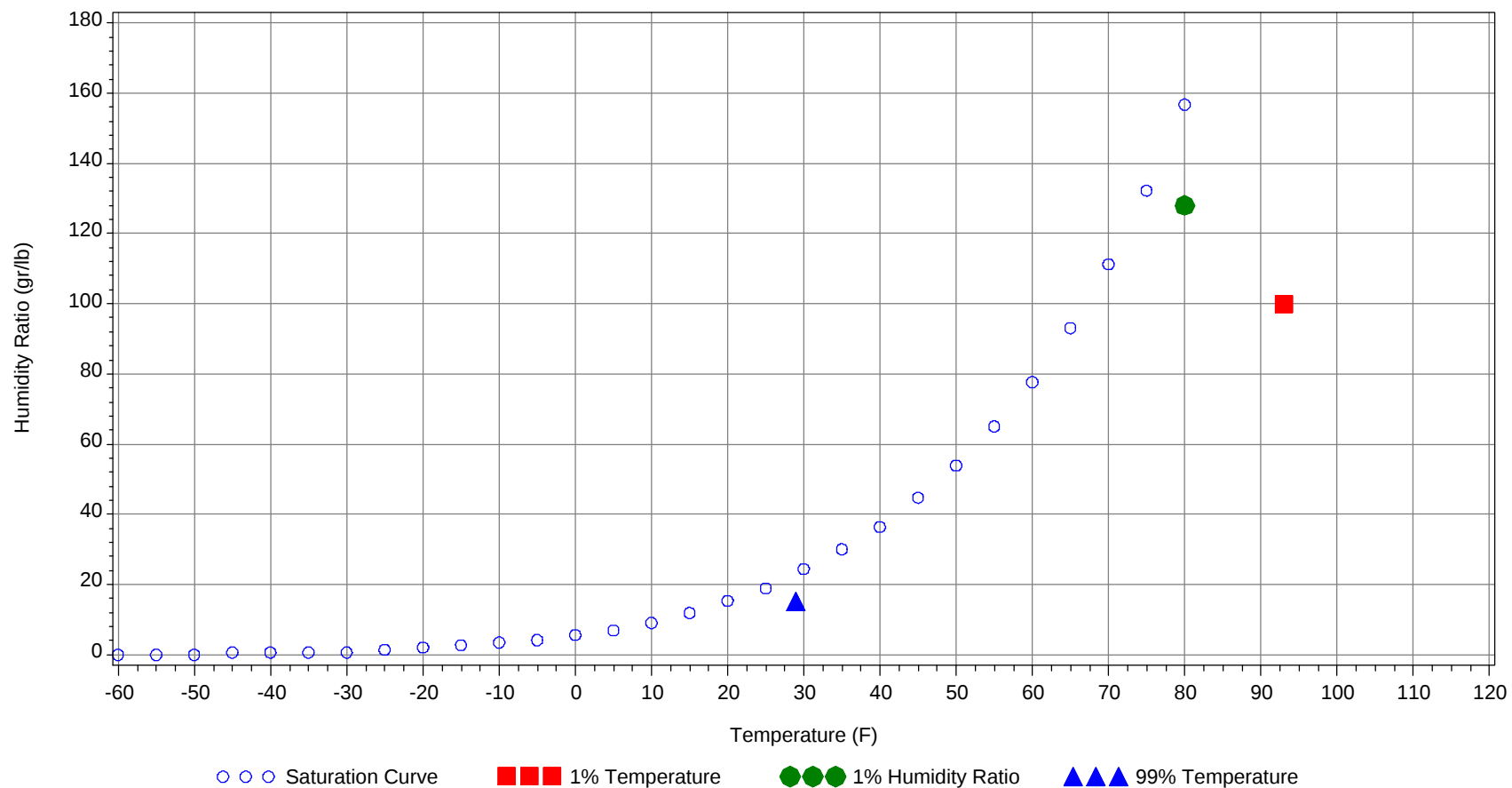
Average Annual Climate



Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values



	(° F) / (gr/lb)	MCDB (° F)	MCWB (° F)	MCDP (° F)	MCHR (gr/lb)	Enthalpy (btu/lb)
1.0% Dry Bulb	93.0		74		100.0	37.9
99.0% Dry Bulb	29.0				15.0	9.2
1.0% Humidity Ratio	128.0	80.0	75.8	73.9		39.4

Dry-Bulb Temperature Hours For An Average Year

	January					February					March				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109															
100/104															
95/ 99															
90/ 94												0		0	64.5
85/ 89												1	0	1	65.9
80/ 84		0		0	66		0	0	0	66.3		12	7	19	63.7
75/ 79		2	1	3	65		4	2	6	63	0	25	17	42	61.4
70/ 74	0	11	6	17	62	0	17	13	30	60.2	3	39	35	77	59.3
65/ 69	3	13	10	26	59.4	4	21	18	43	57.9	10	31	32	73	57.9
60/ 64	13	35	29	77	56.3	17	36	37	90	55.2	39	45	54	138	55.6
55/ 59	22	38	37	97	51.1	24	36	36	96	50.2	43	36	37	116	50.7
50/ 54	31	40	43	114	46.6	30	35	38	103	45.9	46	27	29	102	46.5
45/ 49	36	42	46	124	41.5	38	34	37	109	41.4	45	19	22	86	41.9
40/ 44	29	23	28	80	37.4	28	18	20	66	37.3	26	7	9	42	37.8
35/ 39	43	23	26	92	33	42	15	16	73	33.5	26	4	5	35	33.5
30/ 34	38	13	14	65	28.6	26	5	5	36	28.5	8	1	1	10	28.9
25/ 29	22	6	5	33	23.6	10	2	1	13	24	2	0	0	2	23.7
20/ 24	6	1	1	8	19.3	2	0	0	2	18.6	1	0	0	1	19.7
15/ 19	2	0	0	2	15.6	1	0	0	1	15					
10/ 14	1	0		1	10.8	0	0		0	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.

Dry-Bulb Temperature Hours For An Average Year

	April					May					June				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109												0		0	75.3
100/104												0	0	0	73.9
95/ 99							0	0	0	71.6		10	4	14	74
90/ 94		1	0	1	68.7		14	7	21	70.8		50	26	76	73
85/ 89		6	3	9	67.9		33	19	52	69.6	0	56	33	89	72.5
80/ 84		35	21	56	65.4	0	72	49	121	67.7	8	66	60	134	71.7
75/ 79	0	45	34	79	63.1	10	56	54	120	66.4	61	39	66	166	71
70/ 74	12	59	53	124	61.1	66	45	65	176	65	133	15	45	193	68.8
65/ 69	31	34	40	105	60.3	68	18	31	117	62.5	27	2	5	34	64.1
60/ 64	61	34	46	141	56.8	57	8	16	81	57.8	10	0	1	11	58.8
55/ 59	50	16	23	89	52	28	2	5	35	52.8	1			1	55.4
50/ 54	42	7	11	60	47.6	16	0	1	17	48.9	0			0	50
45/ 49	28	4	6	38	43	3		0	3	45.5					
40/ 44	10	0	1	11	39.1										
35/ 39	5	0	0	5	35										
30/ 34	0			0	31.8										
25/ 29															
20/ 24															
15/ 19															
10/ 14															

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Dry-Bulb Temperature Hours For An Average Year

	July					August					September				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109															
100/104		1	1	2	75.7		1	1	2	74.9					
95/ 99		19	8	27	75.3		15	6	21	75.2		4	1	5	73.1
90/ 94		72	36	108	75.2		64	30	94	74.7		28	11	39	71.9
85/ 89	0	58	35	93	74.6	0	59	37	96	74.2		45	22	67	72
80/ 84	20	63	75	158	74	16	68	76	160	73.7	0	66	53	119	70.5
75/ 79	120	28	68	216	72.9	113	33	74	220	72.6	37	54	72	163	69.9
70/ 74	102	7	24	133	70.4	106	7	23	136	69.9	116	31	55	202	67.6
65/ 69	5	0	1	6	64.3	10	1	1	12	64.2	43	8	16	67	62.9
60/ 64	1			1	59.3	2			2	60.6	30	4	8	42	58.1
55/ 59						0			0	58	10	1	2	13	53.4
50/ 54											2	0		2	49.1
45/ 49											0			0	45.8
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

	October					November					December				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109															
100/104															
95/ 99															
90/ 94		1	0	1	73										
85/ 89		9	2	11	69.1		0		0	63.8					
80/ 84		39	16	55	67		5	1	6	66.9		0		0	71
75/ 79	2	53	34	89	65.5		19	6	25	64.4		4	1	5	65.7
70/ 74	28	59	60	147	64	5	38	24	67	62.1	1	15	8	24	63.4
65/ 69	39	33	42	114	61	11	31	27	69	59.6	6	17	13	36	61
60/ 64	58	30	46	134	57.3	28	48	48	124	55.9	18	37	35	90	56.9
55/ 59	45	15	26	86	52.3	33	39	41	113	50.9	23	40	34	97	51.2
50/ 54	38	6	14	58	48	41	32	44	117	46.8	31	41	43	115	46.6
45/ 49	25	2	6	33	43.4	51	17	31	99	42.4	38	43	47	128	41.7
40/ 44	9	0	1	10	39.6	28	6	12	46	38.4	32	21	30	83	37.9
35/ 39	4	0	0	4	35.7	29	4	6	39	34.4	46	19	25	90	33.7
30/ 34	0			0	33	12	1	1	14	29.9	36	7	9	52	29.3
25/ 29						2	0	0	2	25.2	13	2	2	17	24.6
20/ 24						0			0	20.5	2	0	0	2	19.8
15/ 19											1	0	0	1	15.7
10/ 14											0	0		0	9.9

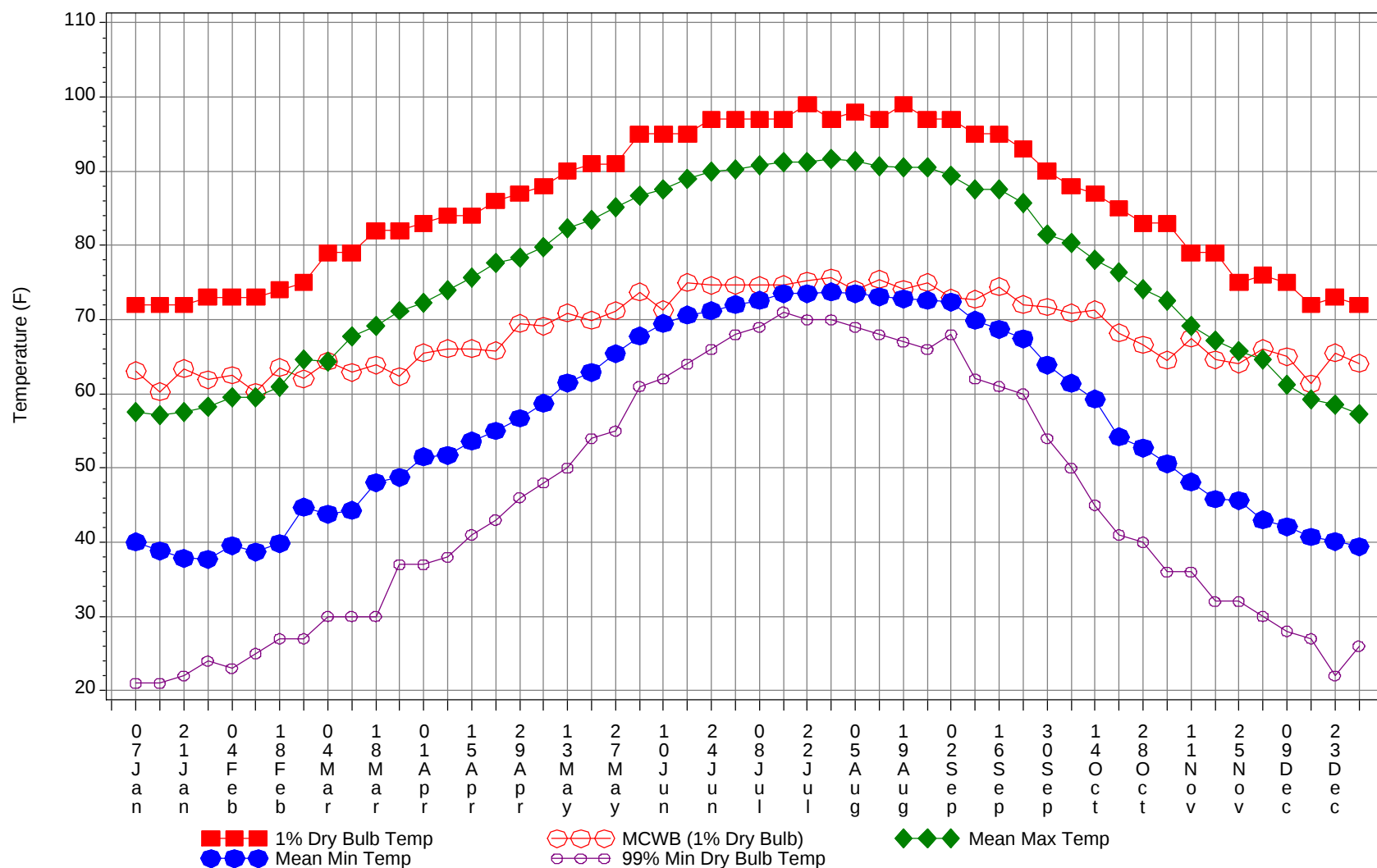
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Dry-Bulb Temperature Hours For An Average Year

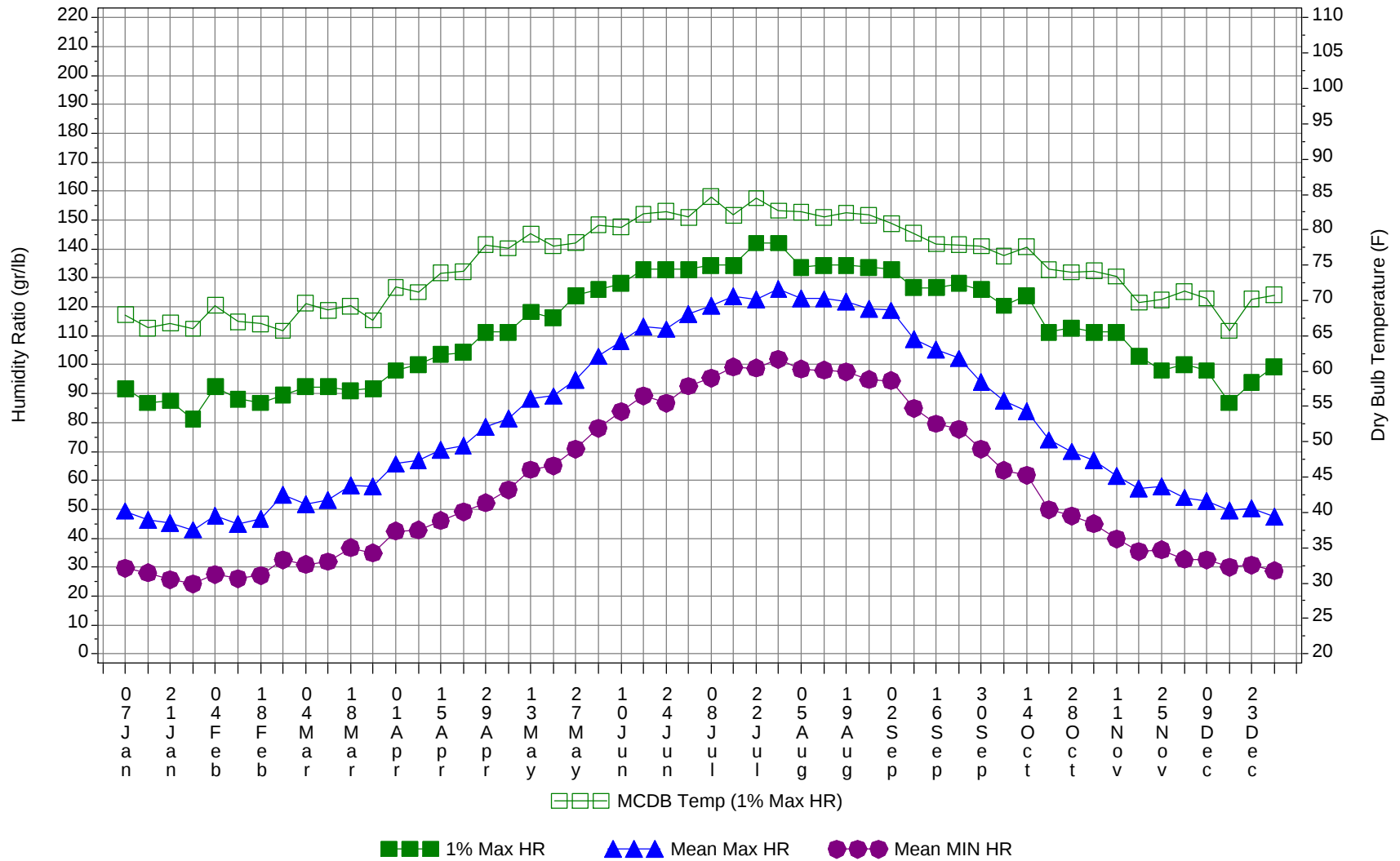
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109		0		0	75.3
100/104		3	2	5	75
95/ 99		48	19	67	74.8
90/ 94		229	109	338	73.9
85/ 89	0	266	151	417	72.7
80/ 84	45	425	357	827	70.8
75/ 79	343	362	428	1133	69.4
70/ 74	572	343	412	1327	65.9
65/ 69	257	209	236	702	60.8
60/ 64	335	278	321	934	56.6
55/ 59	280	223	241	744	51.3
50/ 54	278	191	225	694	46.8
45/ 49	264	161	196	621	41.9
40/ 44	163	77	103	343	37.8
35/ 39	196	66	79	341	33.6
30/ 34	121	27	31	179	28.9
25/ 29	50	10	8	68	24
20/ 24	11	2	2	15	19.3
15/ 19	3	1	1	5	15.5
10/ 14	1	0		1	10.5

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



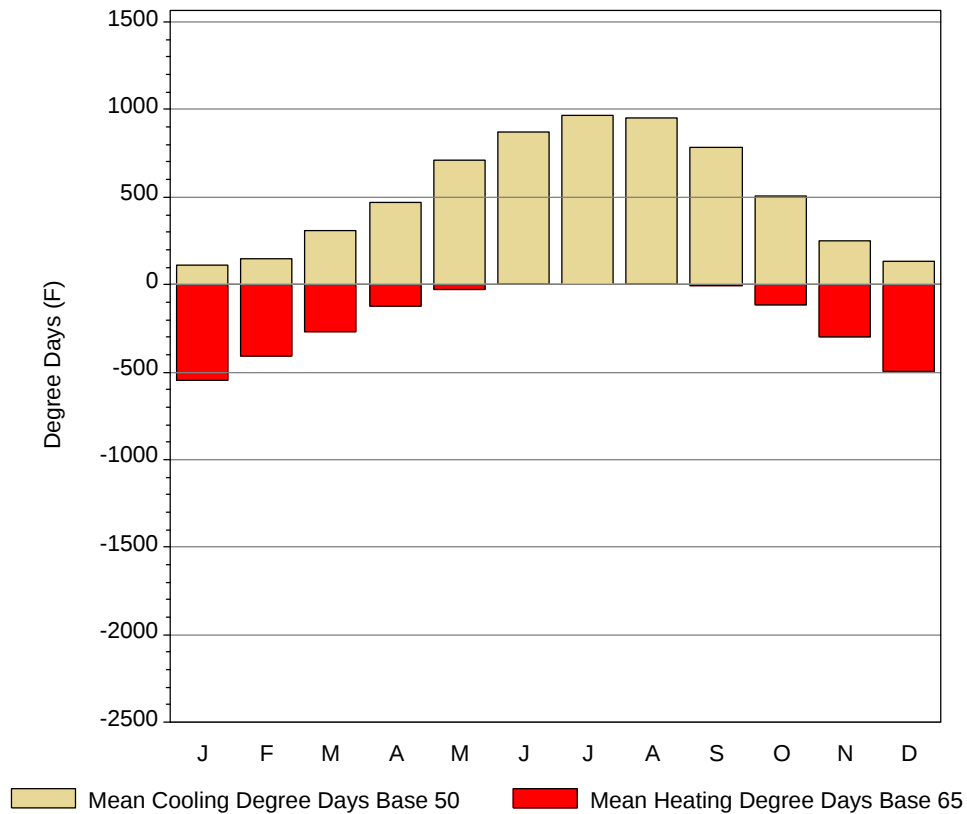
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

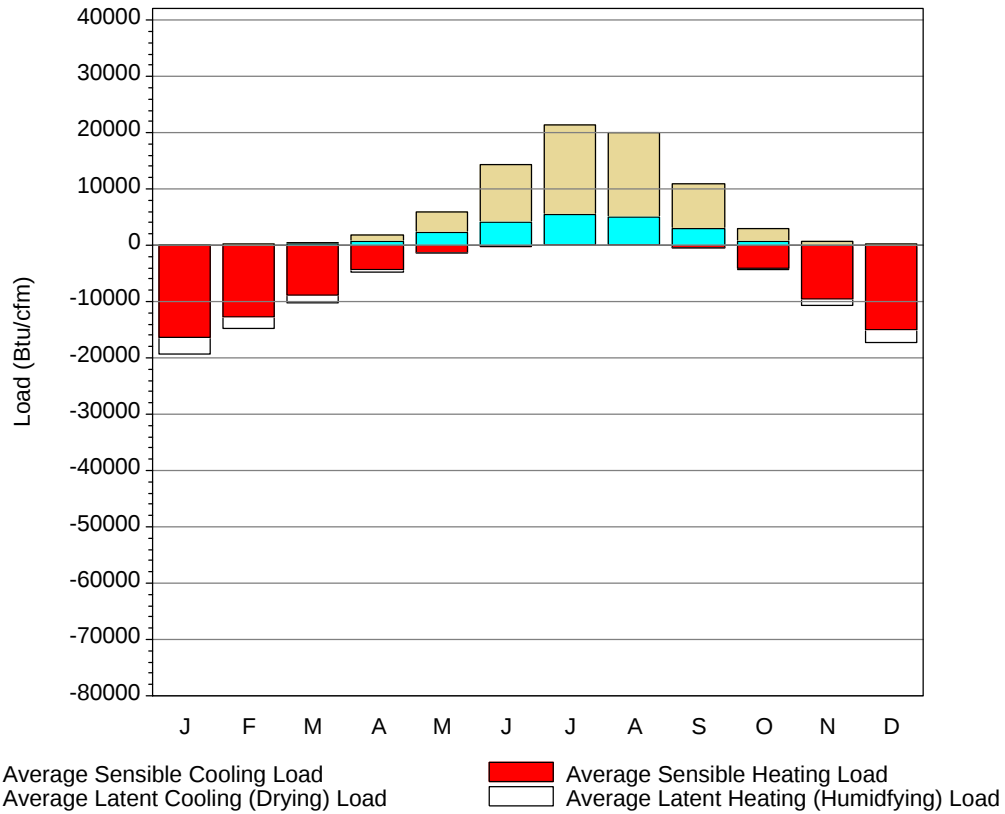
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	72	63.1	57.5	40	21	91.7	68	49.4	29.6
14-Jan	72	60.3	57.1	38.8	21	86.8	66.1	46.4	28
21-Jan	72	63.4	57.6	37.8	22	87.5	66.8	45.3	25.6
28-Jan	73	61.9	58.2	37.7	24	81.2	66	42.9	24.2
4-Feb	73	62.5	59.5	39.5	23	92.4	69.3	47.9	27.5
11-Feb	73	60.2	59.5	38.7	25	88.2	67	44.9	26
18-Feb	74	63.5	61	39.8	27	86.8	66.7	46.8	27.1
25-Feb	75	62	64.6	44.7	27	89.6	65.7	55.1	32.5
4-Mar	79	64.4	64.3	43.8	30	92.4	69.6	51.7	30.9
11-Mar	79	62.9	67.8	44.3	30	92.4	68.6	53.2	31.9
18-Mar	82	63.9	69.1	48	30	91	69.2	58.4	36.7
25-Mar	82	62.3	71.2	48.7	37	91.7	67.2	58	34.9
1-Apr	83	65.5	72.3	51.5	37	98	71.9	65.7	42.5
8-Apr	84	66.1	73.9	51.7	38	100.1	71.2	66.9	42.8
15-Apr	84	66.1	75.7	53.6	41	103.6	73.9	70.7	46.1
22-Apr	86	65.8	77.7	55	43	104.3	74.1	72	49.1
29-Apr	87	69.5	78.4	56.7	46	111.3	77.9	78.6	52.2
6-May	88	69.1	79.8	58.7	48	111.3	77.4	81.3	56.7
13-May	90	70.9	82.3	61.5	50	118.3	79.4	88.2	63.7
20-May	91	69.9	83.4	62.9	54	116.2	77.7	89.2	65.1
27-May	91	71.2	85.2	65.4	55	123.9	78.2	94.8	70.9
4-Jun	95	73.7	86.7	67.8	61	126	80.7	102.9	78.1
10-Jun	95	71.3	87.5	69.5	62	128.1	80.4	108.2	83.8
17-Jun	95	75	88.9	70.6	64	133	82.2	113.1	89.2
24-Jun	97	74.6	89.9	71.2	66	133	82.6	112.3	86.8
1-Jul	97	74.6	90.2	72	68	133	81.8	117.6	92.6
8-Jul	97	74.6	90.8	72.6	69	134.4	84.7	120.3	95.4
15-Jul	97	74.7	91.2	73.5	71	134.4	82.1	123.8	99.2
22-Jul	99	75.2	91.3	73.5	70	142.1	84.5	122.6	98.8
29-Jul	97	75.6	91.7	73.7	70	142.1	82.7	126.2	101.9
5-Aug	98	74	91.4	73.5	69	133.7	82.5	123	98.5
12-Aug	97	75.4	90.6	73.1	68	134.4	81.8	122.8	98.1
19-Aug	99	74.1	90.5	72.8	67	134.4	82.4	121.9	97.6
26-Aug	97	75	90.5	72.6	66	133.7	82.1	119.4	94.8
2-Sep	97	72.9	89.4	72.4	68	133	80.9	118.8	94.5
9-Sep	95	72.7	87.5	69.9	62	126.7	79.5	108.8	84.9
16-Sep	95	74.4	87.5	68.7	61	126.7	78	105.2	79.6
23-Sep	93	72	85.7	67.4	60	128.1	77.9	102.2	77.7
30-Sep	90	71.7	81.4	63.9	54	126	77.7	94	70.9
7-Oct	88	70.9	80.4	61.4	50	120.4	76.3	87.6	63.5
14-Oct	87	71.3	78	59.3	45	123.9	77.6	83.8	61.8
21-Oct	85	68.2	76.3	54.2	41	111.3	74.4	74	49.9
28-Oct	83	66.6	74.1	52.7	40	112.7	74	70	47.7
4-Nov	83	64.5	72.5	50.6	36	111.3	74.2	67	45
11-Nov	79	67.5	69.1	48.1	36	111.3	73.4	61.5	39.7
18-Nov	79	64.6	67.2	45.8	32	102.9	69.7	57.2	35.4
25-Nov	75	64	65.8	45.6	32	98	70.1	57.9	36
2-Dec	76	66.1	64.6	43	30	100.1	71.3	54.1	32.7
9-Dec	75	65	61.2	42.1	28	98	70.3	52.8	32.6
16-Dec	72	61.3	59.3	40.7	27	86.8	65.7	49.5	30
23-Dec	73	65.5	58.6	40.1	22	93.8	70.2	50.4	30.7
31-Dec	72	64.1	57.2	39.4	26	99.4	70.8	47.3	28.8

Degree Days, Heating and Cooling (Base 65 F) & Cooling (Base 50F)



Month	Mean Cooling Degree Days (°F) Base 50	Mean Cooling Degree Days (°F) Base 65	Mean Heating Degree Days (°F) Base 65
JAN	113.7	7.7	544.5
FEB	147.6	14.6	410.6
MAR	306.3	60.5	271.8
APR	469.9	129.7	120.7
MAY	713.7	279.1	29.1
JUN	871.7	423.6	1.3
JUL	965.4	502.5	0
AUG	953.6	488.8	0.1
SEP	781.9	341.7	9.3
OCT	505.5	143.2	112.2
NOV	250.7	39.6	297.8
DEC	135	11.3	492.9
ANN	6215	2442.3	2290.3

Average Ventilation and Infiltration Loads (Outside Air vs 75F, 60% RH summer; 68F, 30% RH winter)



Month	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	3	-16411	130	-2951
FEB	11	-12639	162	-2213
MAR	222	-8872	292	-1322
APR	695	-4389	1130	-345
MAY	2245	-1309	3726	-15
JUN	4186	-99	10250	0
JUL	5403	-7	15882	0
AUG	5107	-20	14873	0
SEP	2892	-493	7941	-1
OCT	733	-4114	2300	-161
NOV	83	-9605	707	-990
DEC	5	-15026	300	-2131
ANN	21585	-72984	57693	-10129

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	COLUMBUS, GA 93842	Window:	1.000
Lat, Lon, Elev	32.52N 84.95W 446ft	Overhang:	0.978
Press, Stn_Type	14.6psia Secondary	Vert Gap:	0.659

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	1450	1820	1970	2010	1900	1790	1550	1320	970	800	1460
	Std.Dev.	59	99	115	114	121	129	151	98	107	110	80	64	37
	Minimum	760	960	1220	1610	1730	1770	1510	1590	1350	1090	750	670	1360
	Maximum	1020	1340	1620	2040	2330	2210	2140	1960	1740	1540	1110	910	1520
	Diffuse	380	460	590	690	830	900	920	850	710	500	400	350	630
Clear Day	Global	1220	1540	1950	2320	2520	2570	2500	2310	1990	1590	1240	1100	1910
NORTH	Global	250	300	380	460	570	630	590	510	420	340	270	230	410
	Diffuse	250	300	380	450	510	540	530	490	420	340	270	230	390
Clear Day	Global	220	270	350	440	590	680	630	490	400	320	240	210	400
EAST	Global	530	680	830	1000	1060	1070	1020	990	870	790	600	500	830
	Diffuse	290	360	460	550	610	640	640	600	520	420	320	270	470
Clear Day	Global	850	1020	1210	1330	1360	1350	1320	1260	1150	990	830	760	1120
SOUTH	Global	1140	1190	1120	940	730	650	670	820	1020	1280	1230	1150	990
	Diffuse	390	440	510	540	550	550	560	570	560	500	420	370	500
Clear Day	Global	2040	1950	1640	1180	830	700	750	1010	1400	1740	1910	1960	1420
WEST	Global	560	710	880	1040	1060	1040	980	960	880	800	620	530	840
	Diffuse	300	370	470	560	620	650	640	610	530	420	330	280	480
Clear Day	Global	850	1020	1210	1330	1360	1350	1320	1260	1150	990	830	760	1120

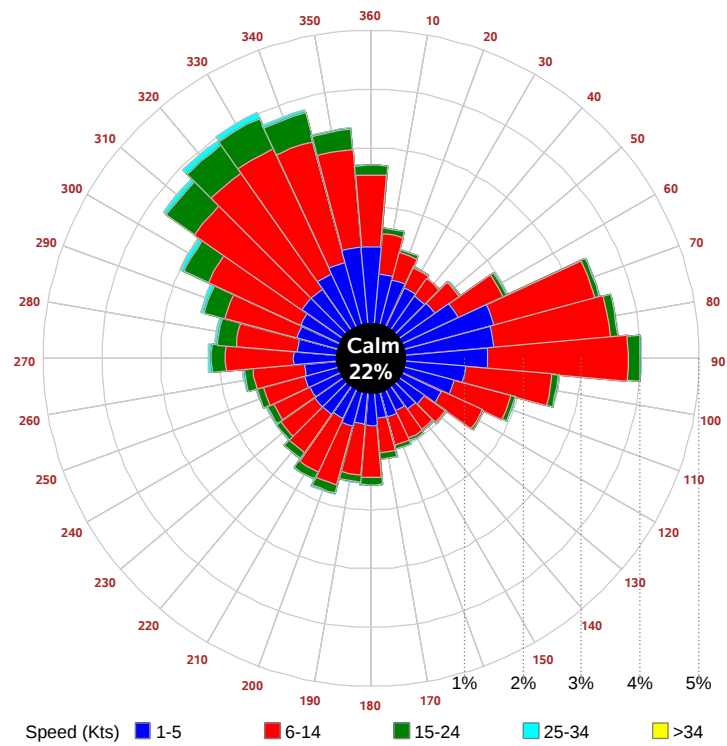
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	1040	1320	1440	1470	1380	1300	1110	940	670	530	1050
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	370	470	590	710	750	760	720	700	620	560	420	340	580
	Shaded	310	390	480	570	600	600	570	560	500	460	350	290	470
SOUTH	Unshaded	840	860	750	580	440	400	420	500	660	900	910	860	680
	Shaded	790	690	400	320	330	330	330	340	340	620	820	830	510
WEST	Unshaded	390	500	620	740	750	740	690	680	630	570	430	370	590
	Shaded	330	420	510	600	600	590	550	550	500	470	360	310	480

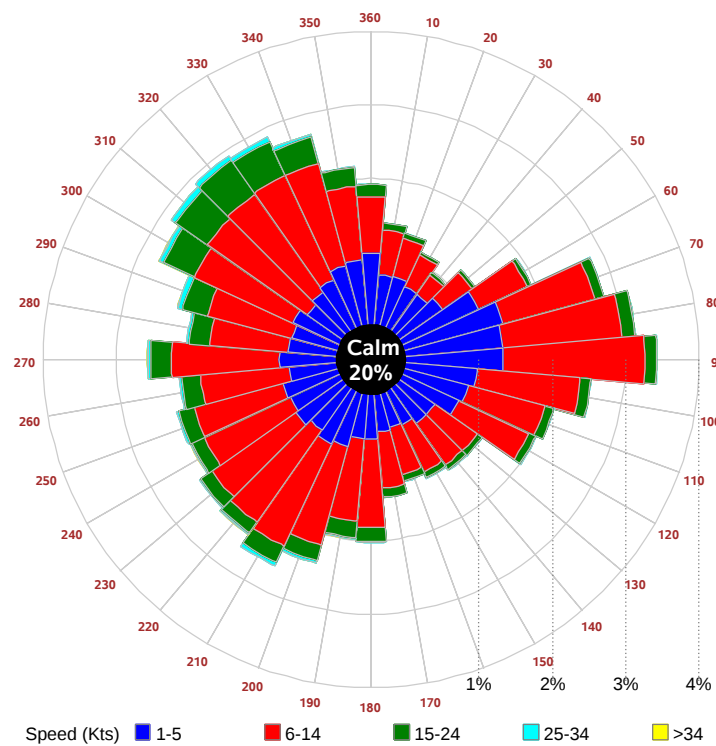
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	31	72	91	81	45	30	74	99	101	77	
	M.Cloudy	18	44	57	53	29	19	49	76	78	55	
NORTH	M.Clear	8	14	16	15	11	22	17	18	18	17	
	M.Cloudy	7	15	18	17	11	12	17	20	20	17	
EAST	M.Clear	72	70	24	15	11	59	78	47	18	17	
	M.Cloudy	23	35	22	17	11	24	44	38	20	17	
SOUTH	M.Clear	26	61	76	67	38	10	17	33	34	20	
	M.Cloudy	12	31	43	40	21	8	17	29	30	19	
WEST	M.Clear	8	14	16	59	79	10	17	18	39	72	
	M.Cloudy	7	15	18	36	35	8	17	20	33	47	
M.Clear	(% hrs)	36	37	38	37	38	45	48	40	34	39	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	15	61	87	88	61	12	47	61	48	15	
	M.Cloudy	10	37	62	64	42	7	26	35	29	10	
NORTH	M.Clear	6	14	18	18	15	5	10	12	11	5	
	M.Cloudy	5	14	19	19	15	3	10	13	11	5	
EAST	M.Clear	40	76	45	18	15	40	53	14	11	5	
	M.Cloudy	13	34	33	19	15	10	21	14	11	5	
SOUTH	M.Clear	9	43	64	65	43	29	78	93	79	35	
	M.Cloudy	5	23	42	45	27	8	26	36	32	12	
WEST	M.Clear	6	14	18	41	71	5	10	12	51	45	
	M.Cloudy	5	14	19	32	40	3	10	13	24	14	
M.Clear	(% hrs)	45	45	40	36	43	37	37	39	38	39	

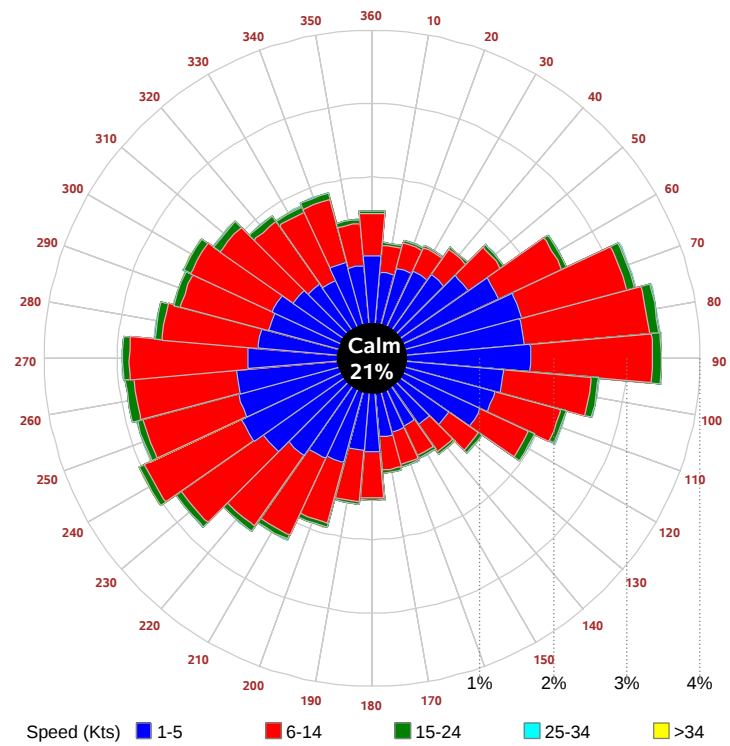
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

