

LAWSON AAF, GA	Station ID = ICAO_KLSF
Latitude = 32.34 N	Elevation = 227 Feet
Longitude = 84.99 W	Average Pressure = 29.81 inches Hg
Period of Record = 1988 To 2017	

Design Criteria Data

	Mean Coincident (Average) Values				
Dry Bulb Temperature (T)	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	99	76	101	6.3	VRB
0.4% Occurrence	97	76	103	6.3	VRB
1.0% Occurrence	94	76	106	6	VRB
2.0% Occurrence	92	76	108	5.8	VRB
Mean Daily Range	24	-	-	-	WNW
97.5% Occurrence	30	28	19	3	WNW
99.0% Occurrence	26	25	16	3.1	NW
99.6% Occurrence	23	21	13	3.7	NW
Median of Extreme Lows	16	15	10	4.6	WNW

	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T _{wb})					
Median of Extreme Highs	82	90	149	4.7	VRB
0.4% Occurrence	80	90	135	4.9	VRB
1.0% Occurrence	79	88	132	4.8	VRB
2.0% Occurrence	78	87	128	4.7	VRB

	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)					
Median of Extreme Highs	162	86	1.07	4.4	VRB
0.4% Occurrence	142	83	0.94	3.9	VRB
1.0% Occurrence	141	83	0.94	3.6	VRB
2.0% Occurrence	132	81	0.88	3.6	VRB

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	163	1424	1464	3106

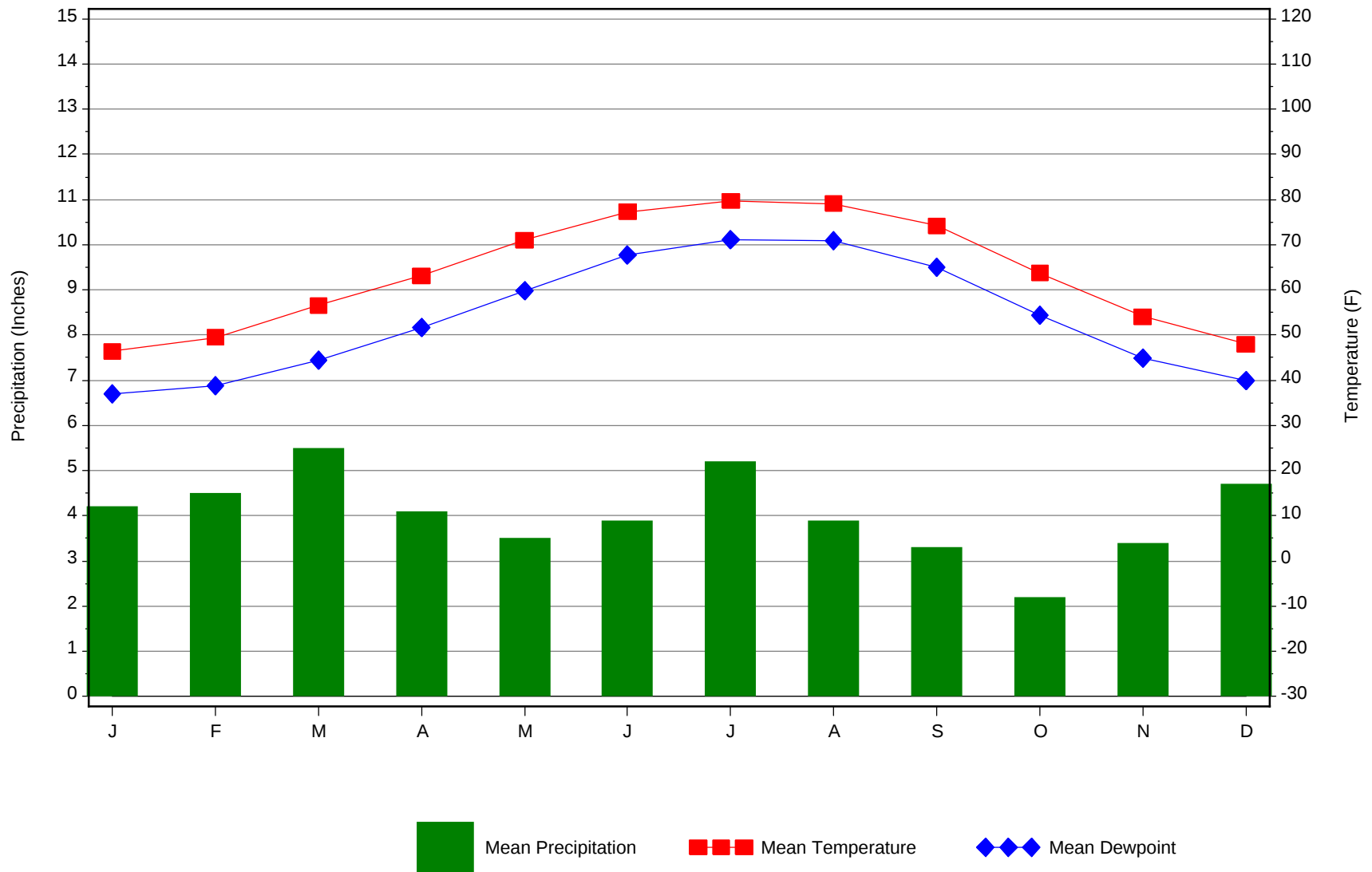
Other Site Data

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	5.9 + 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 (#)
66.1	0	5	38

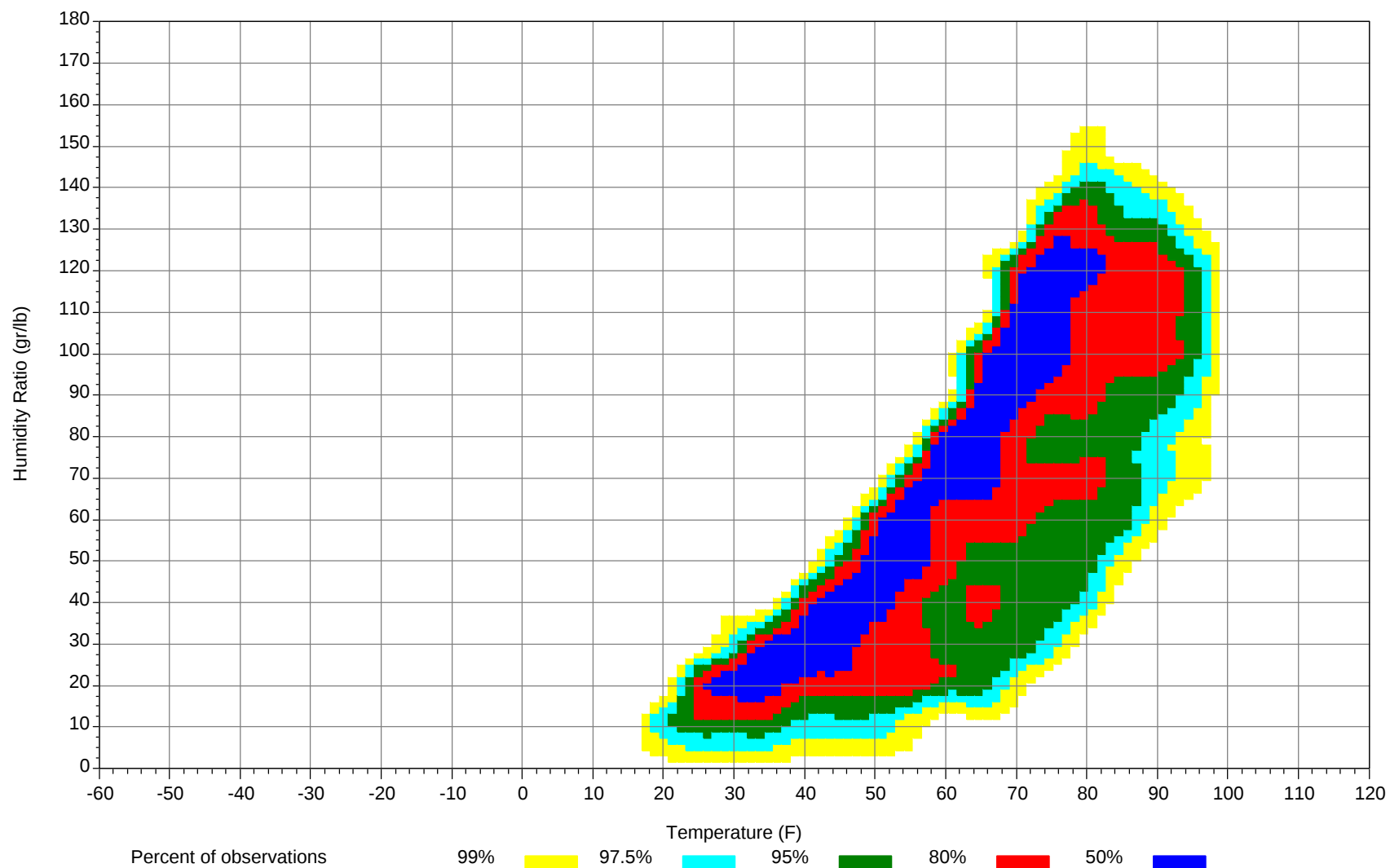
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



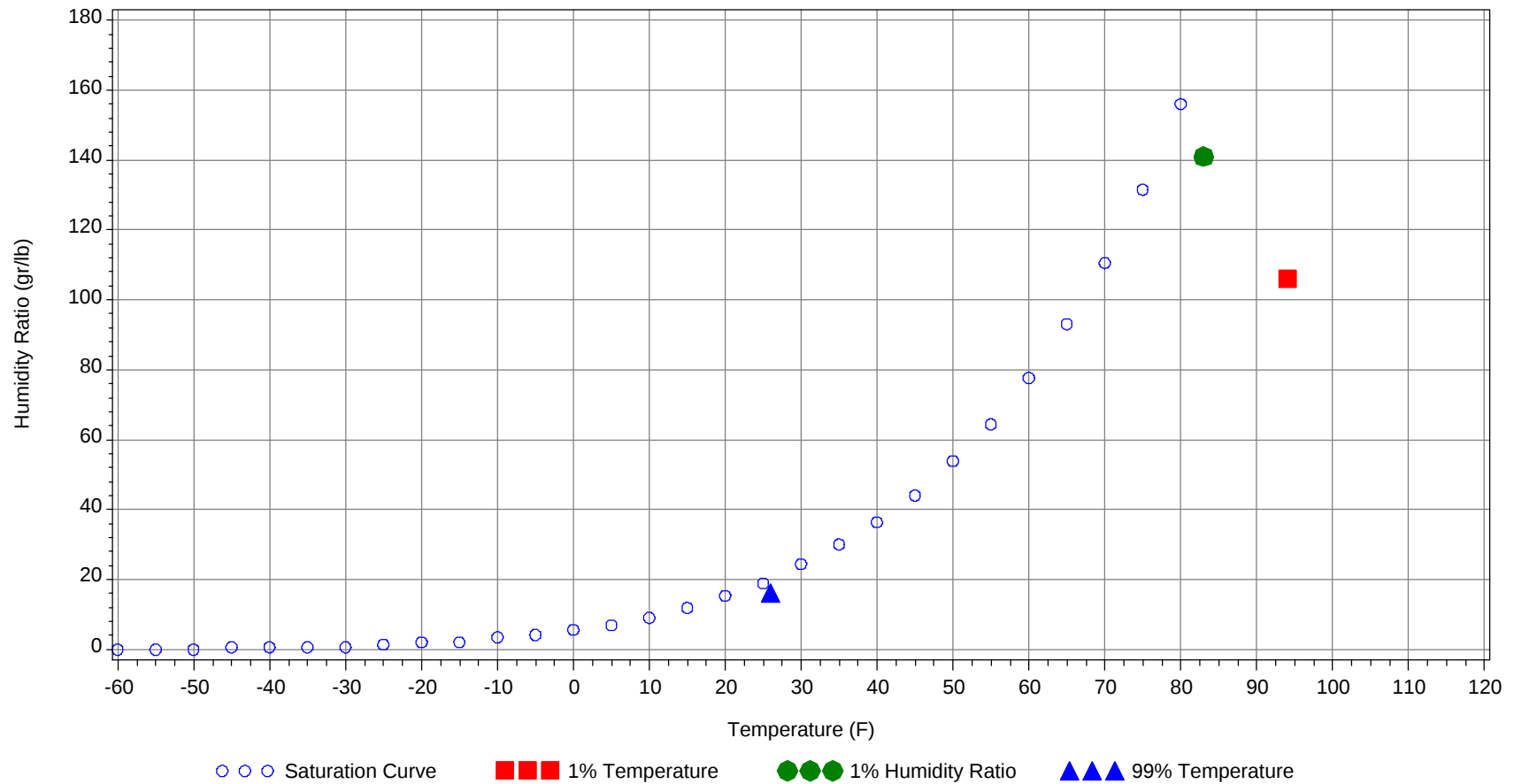
Average Annual Climate



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	94.0		76		106.0	39.3
99.0% Dry Bulb	26.0				16.0	8.6
1.0% Humidity Ratio	141.0	83.0	78.6	77.0		42.1

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															
85/ 89							0		0	66		2	0	2	66.9
80/ 84		0		0	67.7		1	0	1	65.8		14	6	20	64.7
75/ 79		4	1	5	64.8		8	3	11	63.7	0	30	15	45	61.8
70/ 74	1	14	5	20	62.1	1	19	10	30	60.6	3	39	25	67	59.8
65/ 69	4	18	10	32	60.1	5	24	16	45	58.5	6	31	26	63	58.5
60/ 64	12	32	21	65	56.6	14	34	27	75	55.6	26	43	45	114	56.4
55/ 59	18	38	33	89	51.8	19	35	30	84	51.1	38	35	41	114	52.2
50/ 54	26	40	40	106	47.3	27	34	37	98	47	41	27	35	103	47.7
45/ 49	35	38	40	113	42.8	31	29	34	94	42.7	43	17	29	89	43.3
40/ 44	25	24	29	78	38.2	25	18	26	69	38.4	32	7	15	54	39
35/ 39	31	19	31	81	34	37	13	23	73	34.6	29	3	9	41	34.9
30/ 34	38	14	21	73	29.8	32	6	12	50	30	20	1	3	24	30.7
25/ 29	36	5	12	53	25.3	26	2	4	32	25.5	8	0	1	9	26.1
20/ 24	14	1	3	18	20.6	6	0	1	7	20.8	1	0	0	1	21.1
15/ 19	7	0	1	8	16.8	2	0	0	2	16.5	0			0	18
10/ 14	1	0	0	1	11.4	0	0		0	12.2					
5/ 9	0			0	8	0			0	8.8					

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															
100/104												1	0	1	76.2
95/ 99							1	0	1	72.7		14	5	19	75.2
90/ 94		1	0	1	68.3		17	6	23	71.8		48	17	65	74.6
85/ 89		9	4	13	68.4		43	17	60	70.4		59	23	82	73.8
80/ 84		35	15	50	66.1	0	66	29	95	68.6	3	64	37	104	72.9
75/ 79	0	51	23	74	63.8	6	57	39	102	67.3	29	38	63	130	72.2
70/ 74	6	53	35	94	62	35	39	56	130	66.1	111	14	71	196	69.9
65/ 69	21	34	36	91	61	60	16	48	124	64	64	2	20	86	66
60/ 64	46	30	49	125	58.2	64	6	30	100	60.2	26	0	4	30	61
55/ 59	47	17	35	99	53.8	41	2	16	59	55.2	7		1	8	56.2
50/ 54	44	8	23	75	49.3	26	1	7	34	50.8	1			1	52.2
45/ 49	36	3	13	52	44.7	13		1	14	46.3					
40/ 44	24	0	5	29	40.6	3			3	41.9					
35/ 39	12	0	2	14	36.3	0			0	38.5					
30/ 34	3		0	3	31.9										
25/ 29	0			0	28.3										
20/ 24															
15/ 19															
10/ 14															
5/ 9															

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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							0		0	73					
100/104		1	1	2	76.7		2	1	3	76.7					
95/ 99		22	7	29	76.6		18	6	24	77		5	1	6	72.8
90/ 94	0	68	25	93	76.7		64	21	85	76.5		31	9	40	73.6
85/ 89	0	64	25	89	76		63	27	90	75.7		51	16	67	72.9
80/ 84	5	57	47	109	75.2	3	61	43	107	75	0	62	28	90	71.5
75/ 79	67	28	87	182	73.8	65	32	87	184	73.9	17	52	60	129	70.8
70/ 74	146	7	53	206	70.9	133	7	54	194	70.9	83	26	70	179	69.1
65/ 69	24	0	4	28	66.7	33	1	8	42	66.6	62	8	30	100	65.3
60/ 64	5		0	5	62	12		1	13	62.2	45	4	18	67	60.6
55/ 59	1			1	58	1			1	58.5	20	1	7	28	55.7
50/ 54											8		2	10	50.9
45/ 49											3		0	3	46.2
40/ 44											1			1	41.5
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

	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	72.8										
85/ 89		13	3	16	70		1	0	1	65.7					
80/ 84		42	11	53	67.9	0	7	1	8	67.9		1		1	68.3
75/ 79	2	54	23	79	66.3	0	25	5	30	64.6		7	1	8	66.4
70/ 74	18	52	42	112	64.7	5	37	16	58	62.4	2	17	6	25	64.2
65/ 69	30	33	38	101	62.3	9	32	20	61	60.2	6	21	13	40	61.4
60/ 64	44	27	46	117	58.8	20	43	35	98	56.5	15	35	26	76	57.3
55/ 59	44	15	37	96	54.3	27	38	36	101	52.1	20	40	30	90	52.2
50/ 54	40	7	24	71	50.1	34	29	40	103	48.4	26	40	38	104	47.7
45/ 49	31	2	15	48	45.2	34	17	36	87	43.8	31	37	39	107	43.1
40/ 44	21	1	7	29	40.9	32	8	24	64	39.8	30	22	35	87	39.1
35/ 39	13	0	3	16	36.6	40	4	18	62	35.8	35	17	31	83	34.8
30/ 34	5	0	0	5	32	28	1	6	35	31.2	39	8	20	67	30.4
25/ 29	1			1	27.3	10	0	1	11	26.6	34	3	8	45	25.8
20/ 24						1		0	1	21.7	8	1	1	10	21.1
15/ 19						0			0	16.8	3	0	0	3	17.2
10/ 14											1	0		1	11.6
5/ 9															

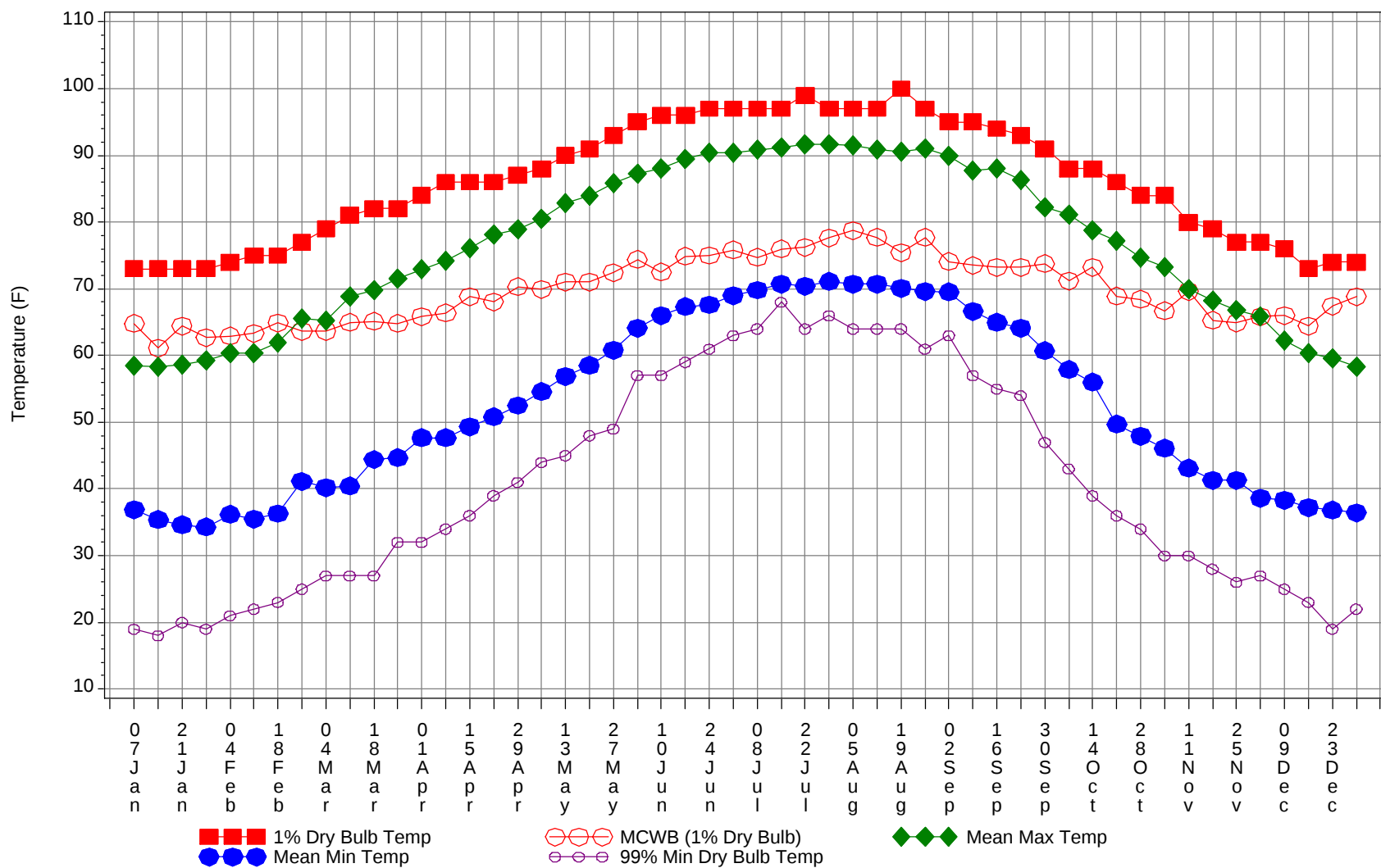
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Dry-Bulb Temperature Hours For An Average Year

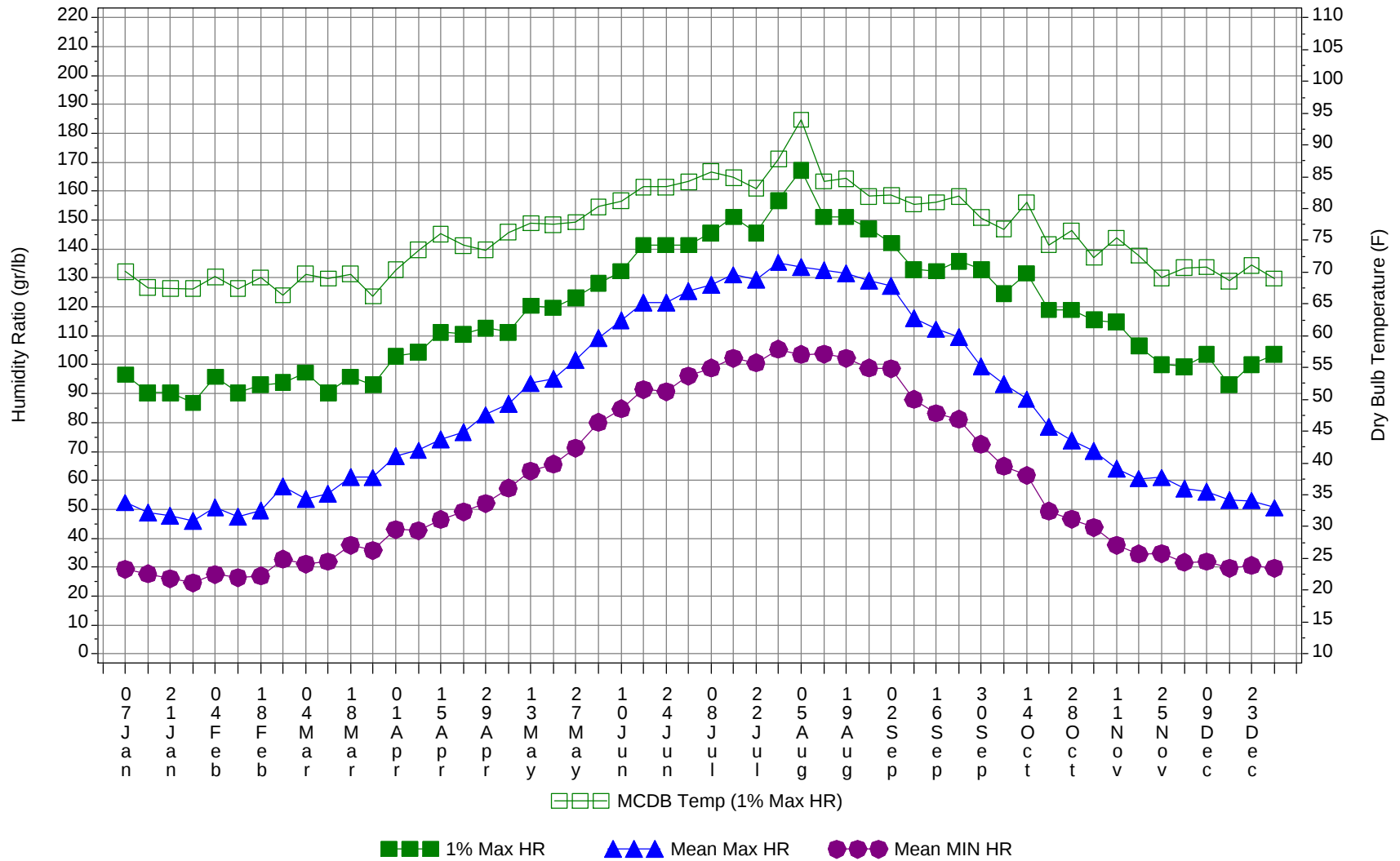
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109		0		0	73
100/104		4	2	6	76.6
95/ 99		60	20	80	76.1
90/ 94	0	229	78	307	75.4
85/ 89	0	305	114	419	73.7
80/ 84	11	409	217	637	71.5
75/ 79	186	386	407	979	70.1
70/ 74	542	324	443	1309	67.4
65/ 69	324	219	268	811	62.7
60/ 64	329	255	302	886	58
55/ 59	283	220	265	768	52.9
50/ 54	273	186	245	704	48.3
45/ 49	258	144	208	610	43.5
40/ 44	193	80	140	413	39.1
35/ 39	197	56	117	370	34.9
30/ 34	165	30	62	257	30.4
25/ 29	115	10	27	152	25.6
20/ 24	30	2	5	37	20.8
15/ 19	12	0	1	13	16.9
10/ 14	2	0	0	2	11.6
5/ 9	0			0	8.4

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



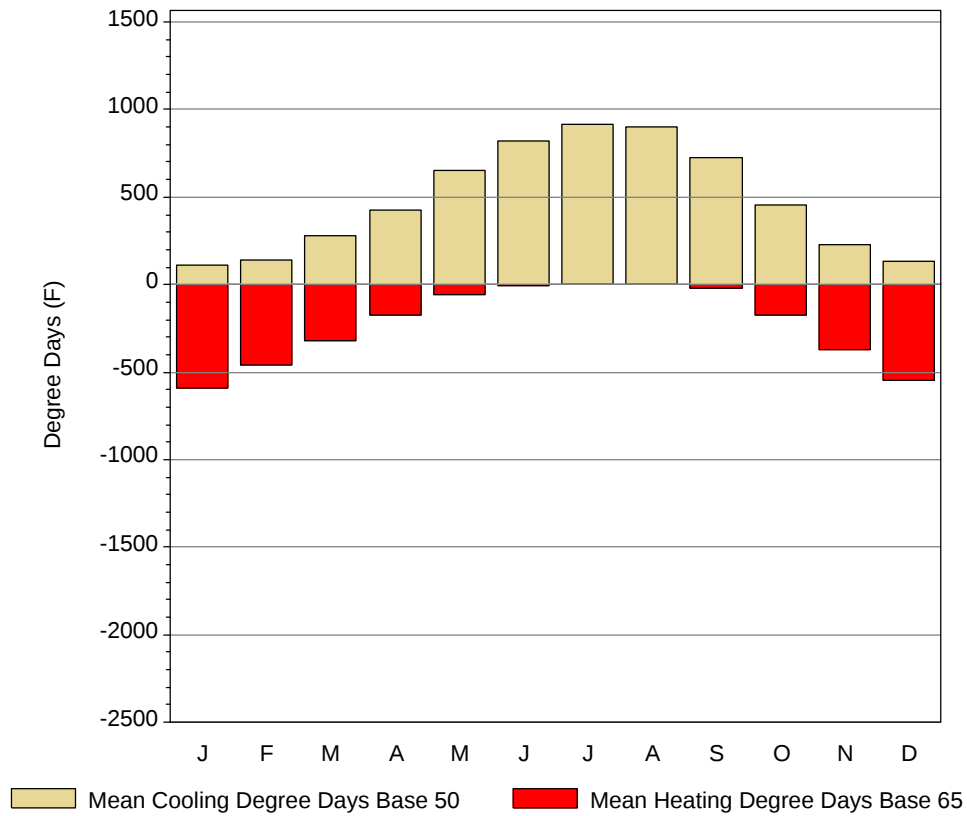
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

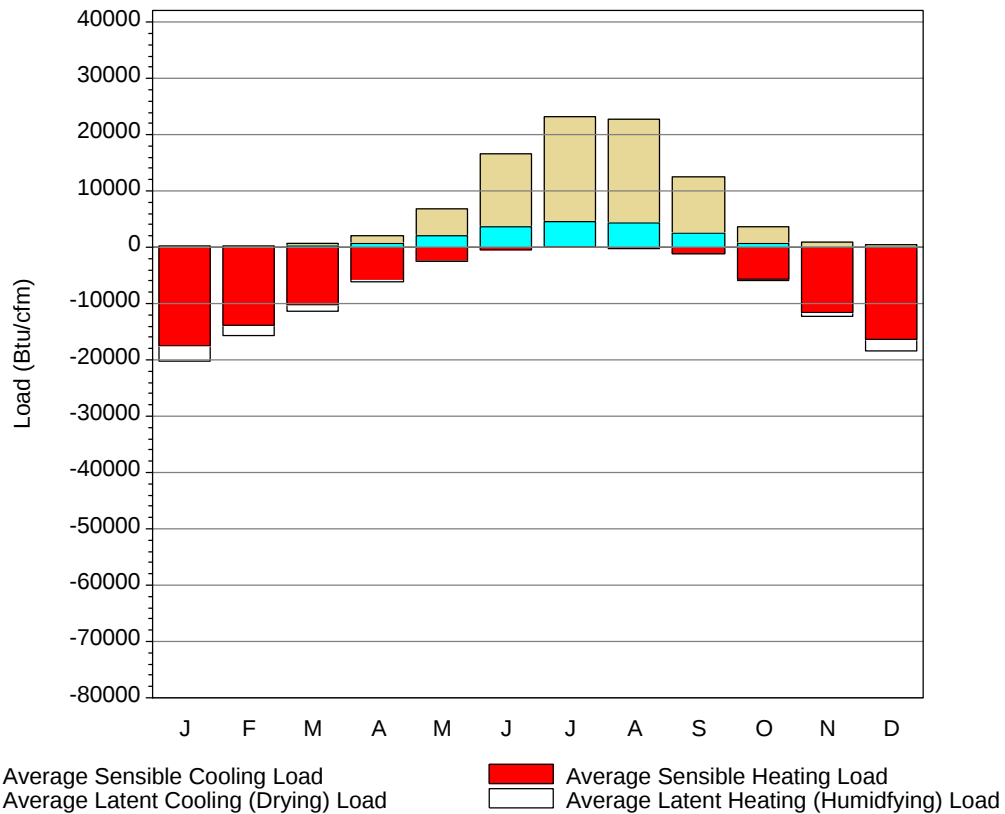
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	73	64.8	58.4	36.9	19	96.6	70.1	52.3	29.3
14-Jan	73	61.1	58.3	35.4	18	90.3	67.6	48.8	27.6
21-Jan	73	64.4	58.6	34.6	20	90.3	67.5	47.7	26
28-Jan	73	62.7	59.3	34.3	19	86.8	67.4	45.9	24.6
4-Feb	74	62.9	60.3	36.2	21	95.9	69.3	50.6	27.5
11-Feb	75	63.3	60.4	35.5	22	90.3	67.4	47.4	26.4
18-Feb	75	64.9	61.9	36.3	23	93.1	69.2	49.6	27
25-Feb	77	63.6	65.5	41.1	25	93.8	66.4	57.9	32.7
4-Mar	79	63.6	65.2	40.2	27	97.3	69.7	53.7	31.1
11-Mar	81	65	68.8	40.4	27	90.3	69	55.4	31.9
18-Mar	82	65.1	69.8	44.4	27	95.9	69.7	61.2	37.6
25-Mar	82	64.8	71.6	44.7	32	93.1	66.2	61	35.7
1-Apr	84	65.8	72.9	47.7	32	102.9	70.4	68.4	43
8-Apr	86	66.4	74.2	47.7	34	104.3	73.5	70.4	42.7
15-Apr	86	68.8	76.1	49.3	36	111.3	76	74.3	46.5
22-Apr	86	68	78.2	50.8	39	110.6	74.2	76.6	49.1
29-Apr	87	70.3	78.9	52.5	41	112.7	73.5	82.7	52.1
6-May	88	69.9	80.5	54.6	44	111.3	76.3	86.4	57.3
13-May	90	71	82.8	56.9	45	120.4	77.7	93.5	63.2
20-May	91	71	83.9	58.5	48	119.7	77.5	95.2	65.6
27-May	93	72.4	85.8	60.8	49	123.2	77.9	101.7	71.2
4-Jun	95	74.4	87.2	64.1	57	128.1	80.3	109.3	80.1
10-Jun	96	72.5	88	66	57	132.3	81.2	115.5	84.8
17-Jun	96	74.9	89.5	67.3	59	141.4	83.4	121.6	91.5
24-Jun	97	75	90.4	67.6	61	141.4	83.4	121.6	90.7
1-Jul	97	75.8	90.4	69	63	141.4	84.2	125.6	96.1
8-Jul	97	74.7	90.8	69.8	64	145.6	85.8	127.6	98.8
15-Jul	97	76	91.2	70.7	68	151.2	84.9	131.1	102.3
22-Jul	99	76.2	91.7	70.4	64	145.6	83.2	129.4	100.7
29-Jul	97	77.6	91.7	71.1	66	156.8	87.8	135.4	105.4
5-Aug	97	78.7	91.5	70.7	64	167.3	94	133.9	103.5
12-Aug	97	77.7	90.8	70.7	64	151.2	84.3	132.6	103.7
19-Aug	100	75.4	90.5	70.1	64	151.2	84.7	131.5	102.3
26-Aug	97	77.7	91	69.6	61	147	81.9	129.1	98.9
2-Sep	95	74.1	90	69.5	63	142.1	82.1	127.3	98.7
9-Sep	95	73.5	87.8	66.6	57	133	80.7	116.1	88
16-Sep	94	73.2	88.1	65	55	132.3	81	112.3	83.2
23-Sep	93	73.2	86.3	64.1	54	135.8	81.9	109.7	81.2
30-Sep	91	73.8	82.2	60.7	47	133	78.6	99.4	72.5
7-Oct	88	71.2	81.1	57.9	43	124.6	76.8	93.4	64.8
14-Oct	88	73.2	78.8	56	39	131.6	81	88.1	61.7
21-Oct	86	68.9	77.2	49.7	36	119	74.3	78.4	49.4
28-Oct	84	68.4	74.6	47.9	34	119	76.5	73.9	46.6
4-Nov	84	66.7	73.3	46.1	30	115.5	72.3	70.1	43.8
11-Nov	80	69.6	69.9	43.1	30	114.8	75.4	64	37.6
18-Nov	79	65.3	68.2	41.3	28	106.4	72.6	60.6	34.5
25-Nov	77	64.9	66.8	41.3	26	100.1	69.1	61	34.7
2-Dec	77	65.8	65.8	38.6	27	99.4	70.7	57.3	31.7
9-Dec	76	66	62.3	38.3	25	103.6	70.8	56.2	31.9
16-Dec	73	64.4	60.4	37.2	23	93.1	68.6	53.1	29.7
23-Dec	74	67.4	59.6	36.8	19	100.1	71.1	53	30.6
31-Dec	74	68.8	58.3	36.4	22	103.6	69	50.5	29.6

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	112	9.9	588.9
FEB	141	17.1	455.9
MAR	280.7	59.6	323.6
APR	422.7	119.1	172.3
MAY	653.3	245.5	60
JUN	817.1	372.6	5.5
JUL	918.4	454.1	0.6
AUG	901.5	438	1.5
SEP	727.5	300.8	23.8
OCT	454	132.1	170.7
NOV	226.5	41	370.1
DEC	130.4	13.7	547.7
ANN	5785.1	2203.5	2720.6

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	8	-17537	190	-2618
FEB	21	-13792	229	-1886
MAR	242	-10250	369	-1042
APR	705	-5851	1440	-227
MAY	2116	-2371	4806	-3
JUN	3682	-339	12840	0
JUL	4668	-53	18564	0
AUG	4421	-115	18262	0
SEP	2635	-1060	9791	-1
OCT	782	-5774	2830	-140
NOV	113	-11494	789	-865
DEC	14	-16423	442	-1889
ANN	19407	-85059	70552	-8671

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

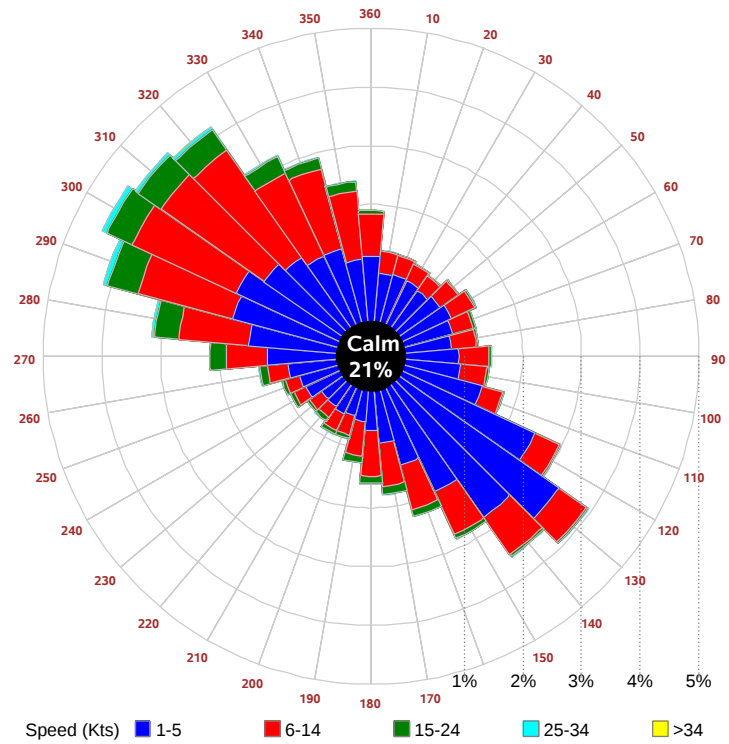
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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

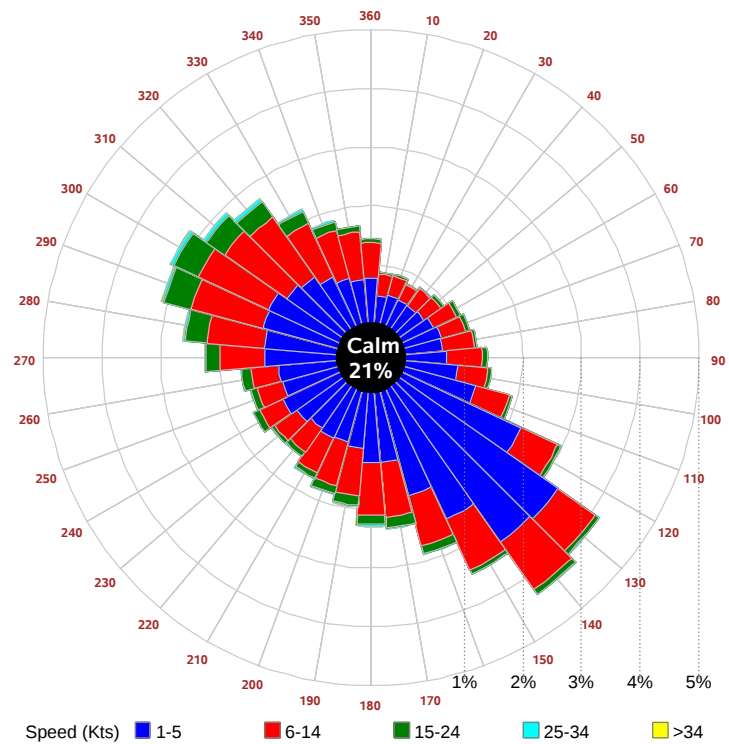
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	31	72	91	81	45	30	74	99	101	77	
	M.Cloudy	18	44	57	53	29	19	49	76	78	55	
NORTH	M.Clear	8	14	16	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	

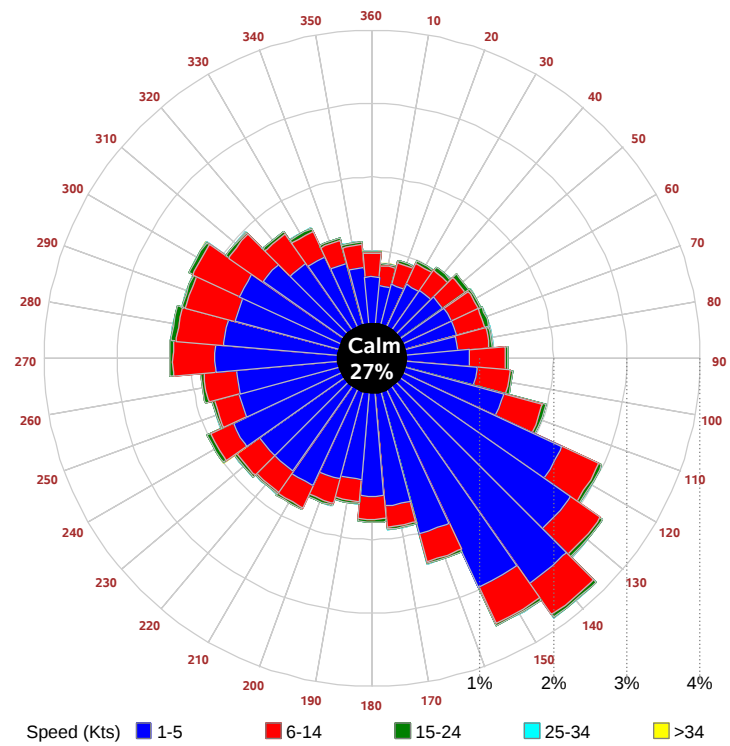
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

