

MOBILE DOWNTOWN, AL

Latitude = 30.63 N

Longitude = 88.07 W

Period of Record = 1988 To 2017

Station ID = ICAO_KBFM

Elevation = 26 Feet

Average Pressure = 30.03 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	97	79	117	7.3	VRB
0.4% Occurrence	93	78	121	7.4	SSE
1.0% Occurrence	91	77	120	7.7	SSE
2.0% Occurrence	90	77	121	7.7	SSE
Mean Daily Range	17	-	-	-	N
97.5% Occurrence	37	34	23	7.6	N
99.0% Occurrence	33	30	20	7.4	NNW
99.6% Occurrence	29	27	16	7.4	NNW
Median of Extreme Lows	23	20	10	10.5	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	83	90	153	7.8	SSE
0.4% Occurrence	81	88	145	7.2	SSE
1.0% Occurrence	80	87	140	7.1	S
2.0% Occurrence	79	86	136	6.9	S

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	159	87	1.05	6	SSE
0.4% Occurrence	150	85	0.99	6.3	S
1.0% Occurrence	149	85	0.99	6.2	S
2.0% Occurrence	141	83	0.94	6	S

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	52	1783	2410	3881

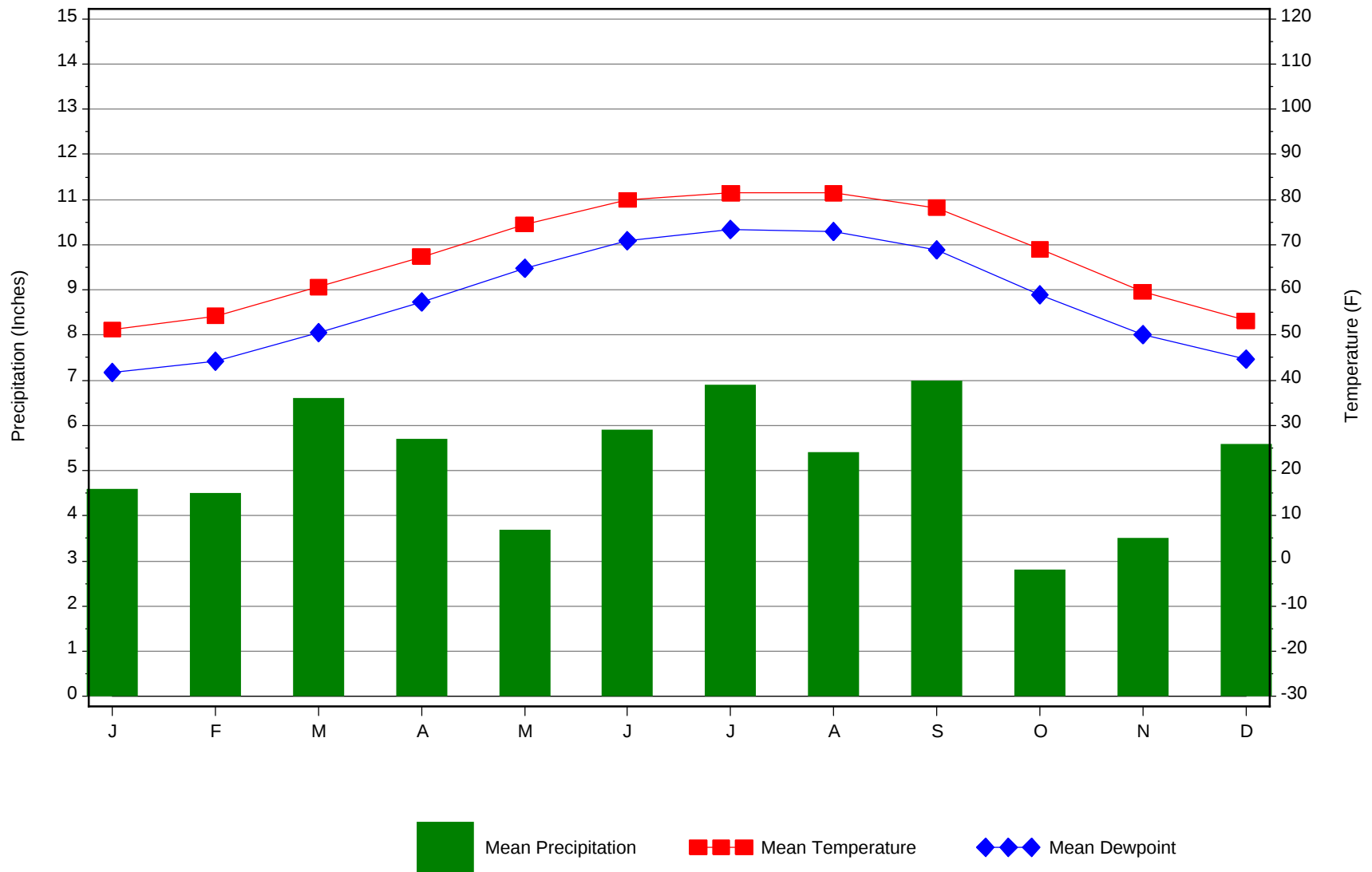
Other Site Data

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
10	N/A	N/A	8.8 + 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 (#)
70.1	N/A	N/A	10

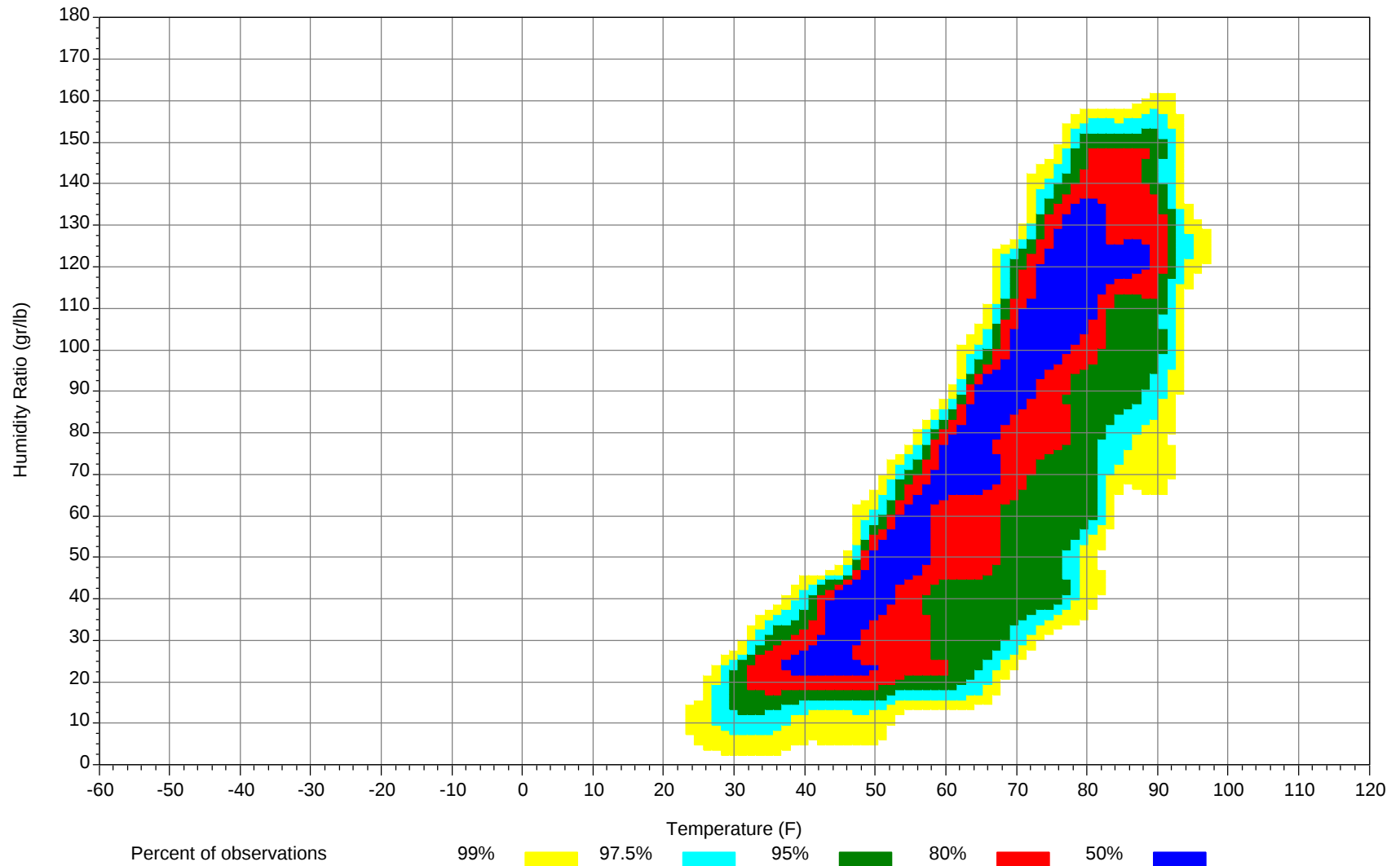
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



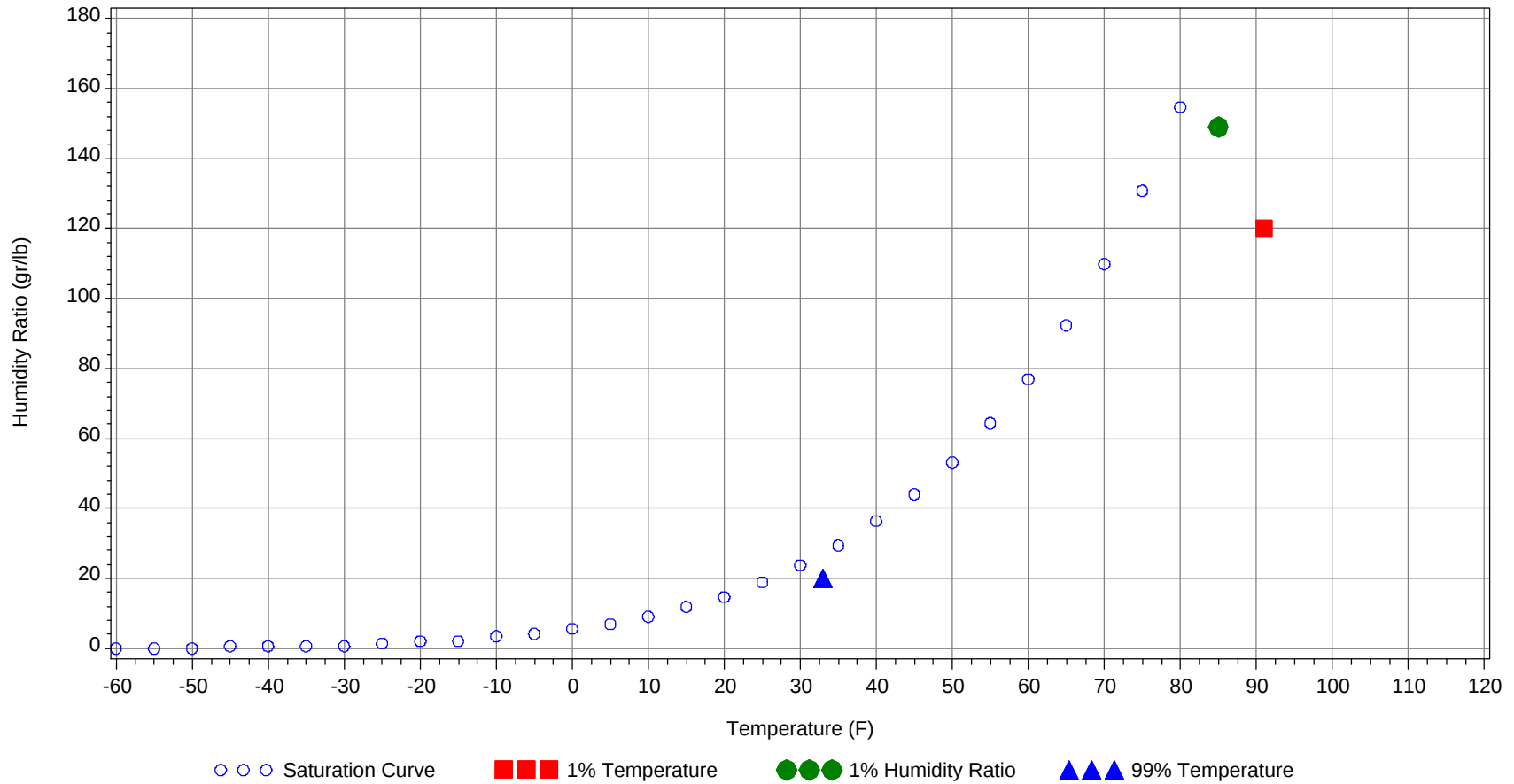
Average Annual Climate



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	91.0		77		120.0	40.8
99.0% Dry Bulb	33.0				20.0	10.8
1.0% Humidity Ratio	149.0	85.0	80.4	78.8		43.8

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)
100/104															
95/ 99															
90/ 94															
85/ 89												0		0	68.3
80/ 84							0		0	63.8		6	0	6	65.8
75/ 79		2	0	2	67.3		4	0	4	64.9	0	27	4	31	66.3
70/ 74	2	18	3	23	65.4	2	22	5	29	64	14	63	28	105	65
65/ 69	8	26	14	48	63	9	37	17	63	61.9	30	47	45	122	62.2
60/ 64	28	48	39	115	58.7	33	49	48	130	58.2	56	50	69	175	57.9
55/ 59	30	46	40	116	52.7	33	42	45	120	52.2	41	27	42	110	52.1
50/ 54	33	40	43	116	47.7	34	30	40	104	47.3	38	17	31	86	47.6
45/ 49	41	34	46	121	42.4	41	23	36	100	42.5	35	7	18	60	42.8
40/ 44	29	17	27	73	38.1	24	9	17	50	38.4	16	2	6	24	38.4
35/ 39	36	12	23	71	33.8	30	6	11	47	34.3	14	2	4	20	34.3
30/ 34	24	4	9	37	29	13	1	4	18	29.4	4	0	1	5	29.7
25/ 29	13	1	4	18	24.6	4	0	1	5	25.1	1	0	0	1	24.3
20/ 24	3	0	0	3	19.9	1	0	0	1	19.5	0			0	20.5
15/ 19	1			1	16.9	0			0	15.4					
10/ 14															
5/ 9															

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)
100/104												0		0	75.4
95/ 99							0		0	75		2	0	2	76.5
90/ 94			0	0	76		6	1	7	72.8	0	41	5	46	76.8
85/ 89	0	1	0	1	72.8		26	2	28	73.3	3	80	16	99	76
80/ 84	0	25	2	27	69.9	10	108	30	148	72.4	47	81	82	210	75
75/ 79	8	75	21	104	68.4	50	71	84	205	70.5	98	26	91	215	73.2
70/ 74	49	78	78	205	65.8	93	28	83	204	67.7	79	9	42	130	70
65/ 69	48	32	55	135	62.3	41	7	28	76	63.1	9	0	4	13	65
60/ 64	53	20	46	119	57.7	33	2	16	51	59	4		1	5	61
55/ 59	36	6	23	65	52.6	15	0	4	19	54	0			0	56
50/ 54	28	3	11	42	48.4	5		1	6	49.7					
45/ 49	16	1	3	20	43.8	1		0	1	46					
40/ 44	2		0	2	39.5										
35/ 39	1		0	1	37.2										
30/ 34															
25/ 29															
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)
100/104		0		0	77.7		0		0	76.8		0		0	81.3
95/ 99		5	0	5	79.2		6	0	6	78.6		1		1	78.2
90/ 94	0	67	8	75	78.2	0	71	7	78	78.4		28	1	29	75.8
85/ 89	6	89	25	120	77.5	6	89	25	120	77.4	0	69	9	78	75.6
80/ 84	67	60	96	223	76.5	67	61	99	227	76.3	29	90	70	189	74.4
75/ 79	126	22	94	242	74.3	124	18	95	237	74.2	90	36	98	224	72.7
70/ 74	46	5	25	76	71.3	46	3	22	71	70.7	80	12	42	134	68.6
65/ 69	2	0	1	3	66.2	4		1	5	64.8	20	3	11	34	63.2
60/ 64	0			0	61.5	1		0	1	60.1	13	1	6	20	58.7
55/ 59											6		1	7	54.7
50/ 54											1		0	1	50.9
45/ 49											0			0	47
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

	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)
100/104															
95/ 99															
90/ 94		1		1	73.9										
85/ 89		13	0	13	73.5		0		0	70.6					
80/ 84	2	61	11	74	71.9	0	5	0	5	71.8		0		0	70.5
75/ 79	23	73	44	140	69.7	3	28	4	35	69	0	6	0	6	69
70/ 74	56	55	65	176	66.3	16	60	26	102	65.6	6	27	8	41	67.3
65/ 69	36	21	42	99	61.9	24	41	33	98	62.1	15	32	22	69	63.7
60/ 64	49	17	43	109	57.7	41	48	52	141	57.5	33	47	42	122	58.8
55/ 59	37	5	24	66	53.1	37	29	42	108	51.9	30	42	38	110	52.6
50/ 54	27	1	12	40	48.9	35	18	38	91	47.6	34	39	40	113	47.6
45/ 49	13	0	5	18	44	43	8	29	80	43.2	38	32	43	113	42.4
40/ 44	3	0	1	4	39.8	19	2	11	32	38.9	31	13	25	69	38.7
35/ 39	1	0	0	1	35.9	18	0	5	23	35.3	36	7	21	64	34.6
30/ 34	0		0	0	32.6	4		1	5	30.6	18	2	7	27	30
25/ 29						1		0	1	26	5	0	1	6	24.8
20/ 24											1	0	0	1	18.8
15/ 19											0	0	0	0	14.2
10/ 14											0	0	0	0	10.5
5/ 9											0			0	7.3

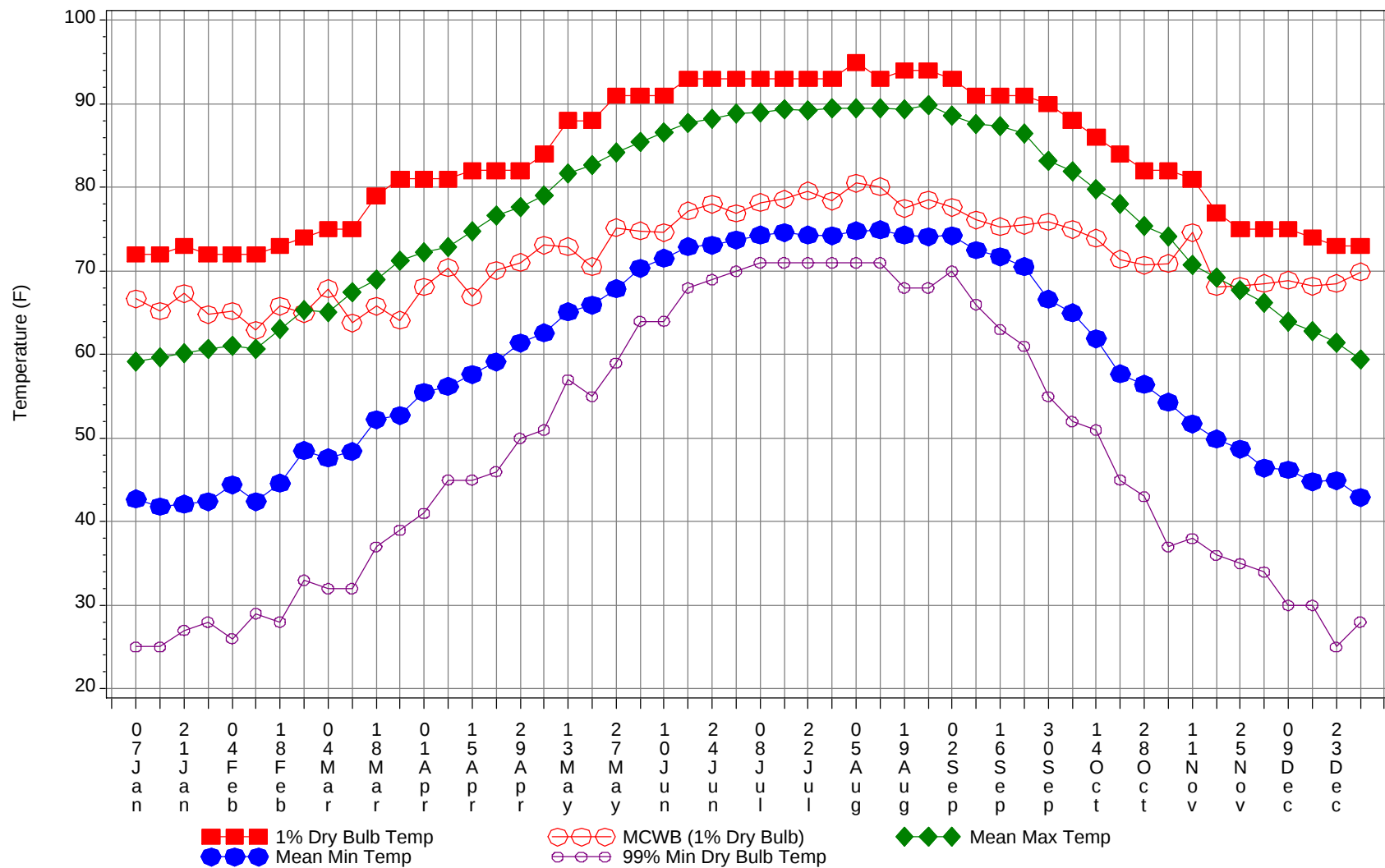
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

Dry-Bulb Temperature Hours For An Average Year

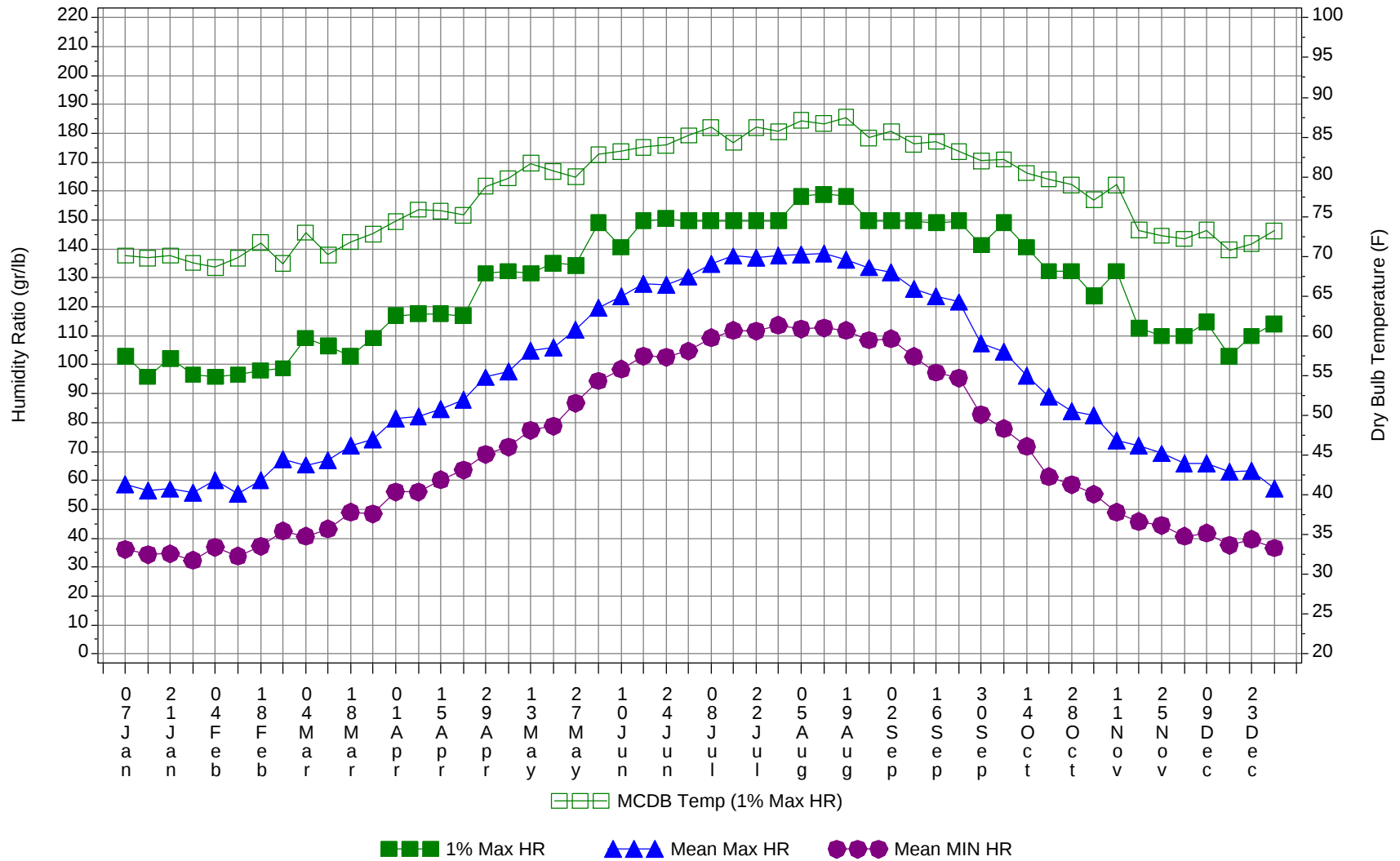
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104		1		1	77
95/ 99		14	1	15	78.3
90/ 94	1	214	21	236	77.5
85/ 89	16	367	77	460	76.4
80/ 84	223	500	392	1115	74.7
75/ 79	525	388	535	1448	72.1
70/ 74	490	381	425	1296	67.3
65/ 69	244	245	273	762	62.5
60/ 64	343	283	362	988	58.1
55/ 59	264	197	258	719	52.5
50/ 54	235	148	216	599	47.7
45/ 49	227	104	180	511	42.7
40/ 44	123	43	87	253	38.5
35/ 39	137	27	64	228	34.4
30/ 34	62	8	22	92	29.5
25/ 29	25	2	6	33	24.7
20/ 24	4	1	1	6	19.6
15/ 19	1	0	0	1	15.5
10/ 14	0	0	0	0	10.5
5/ 9	0			0	7.3

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Annual Summary of Temperatures



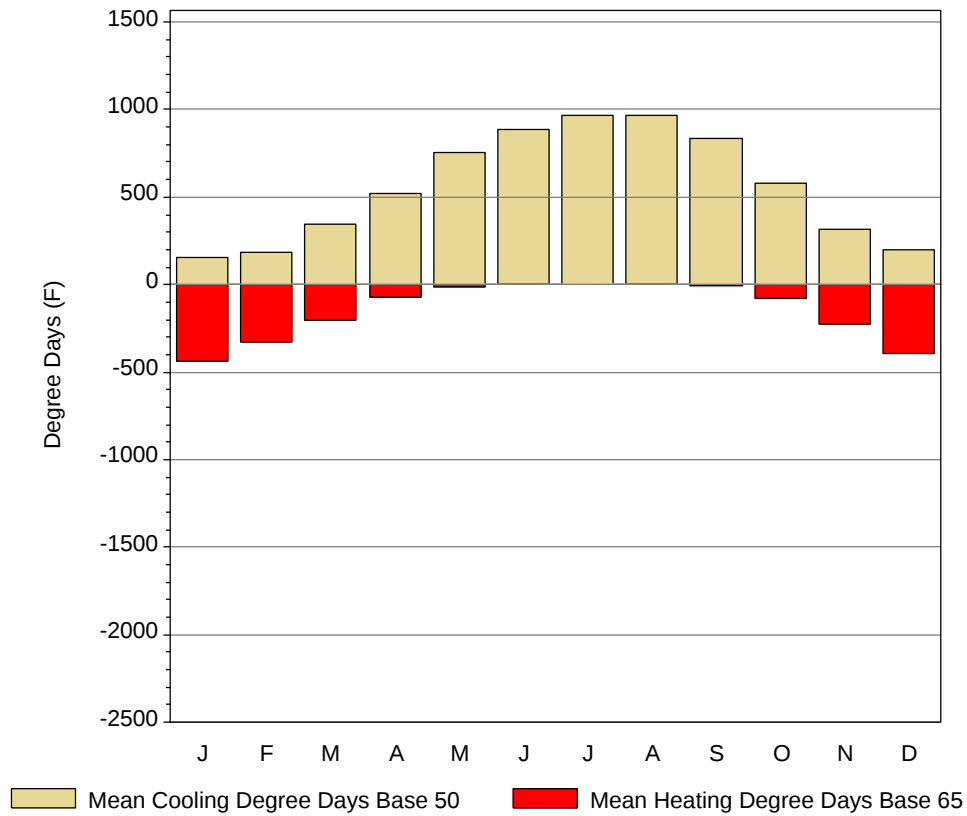
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

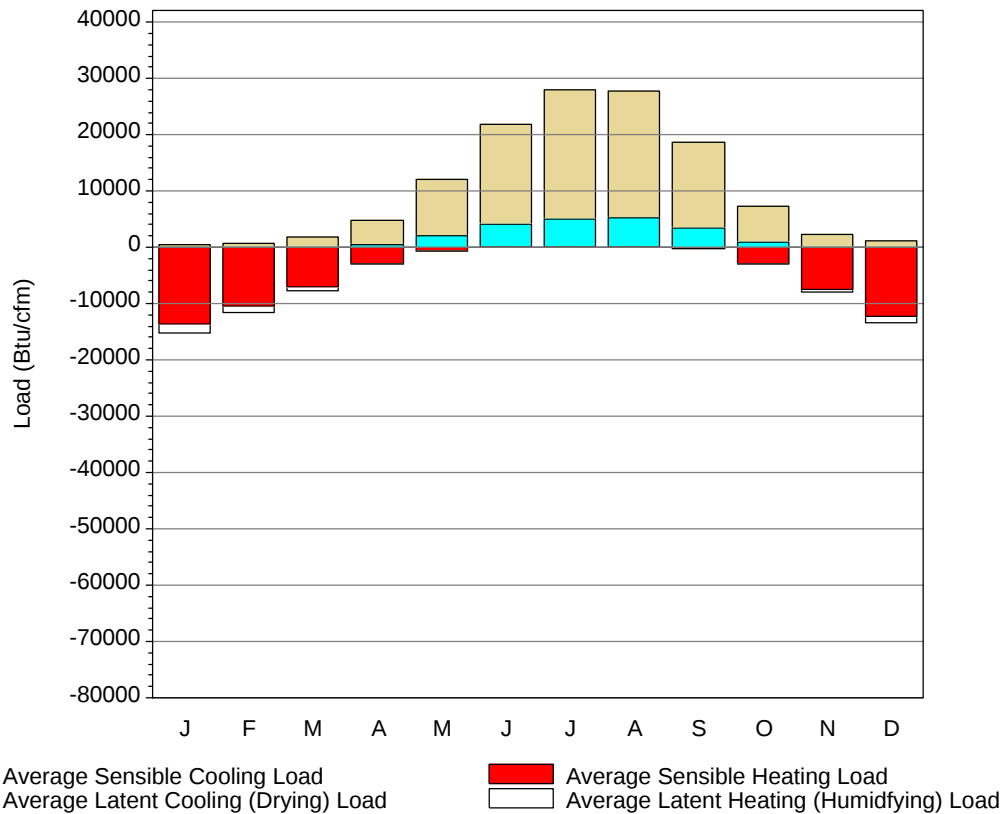
Week Ending	1.0% Temp (°F)	MCWB@ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB@ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	72	66.7	59.1	42.7	25	102.9	70.1	58.5	36.1
14-Jan	72	65.2	59.6	41.8	25	95.9	69.8	56.5	34.3
21-Jan	73	67.3	60.2	42.1	27	102.2	70.1	57	34.6
28-Jan	72	64.8	60.7	42.4	28	96.6	69.2	55.8	32.3
4-Feb	72	65.2	61	44.4	26	95.9	68.6	60.1	36.9
11-Feb	72	62.9	60.7	42.4	29	96.6	69.8	55.3	33.8
18-Feb	73	65.8	63	44.6	28	98	71.7	60	37.2
25-Feb	74	64.9	65.3	48.5	33	98.7	69.1	67.4	42.5
4-Mar	75	67.9	65.1	47.6	32	109.2	73	65.3	40.6
11-Mar	75	63.8	67.5	48.4	32	106.4	70.2	67	43.2
18-Mar	79	65.8	69	52.2	37	102.9	71.8	71.9	49
25-Mar	81	64.1	71.2	52.7	39	109.2	72.8	74.2	48.5
1-Apr	81	68.1	72.3	55.5	41	116.9	74.4	81.4	56
8-Apr	81	70.4	72.9	56.2	45	117.6	75.9	82.2	56
15-Apr	82	66.9	74.8	57.6	45	117.6	75.7	84.7	60.1
22-Apr	82	70.1	76.7	59.1	46	116.9	75.2	87.8	63.6
29-Apr	82	71	77.7	61.4	50	131.6	78.8	95.7	69
6-May	84	73.1	79	62.6	51	132.3	79.8	97.7	71.5
13-May	88	72.9	81.7	65.1	57	131.6	81.7	104.9	77.4
20-May	88	70.5	82.7	65.9	55	135.1	80.7	106.1	78.8
27-May	91	75.2	84.2	67.9	59	134.4	80	112.2	86.7
4-Jun	91	74.8	85.4	70.3	64	149.1	82.8	119.6	94.4
10-Jun	91	74.6	86.6	71.5	64	140.7	83.2	123.7	98.5
17-Jun	93	77.2	87.7	72.9	68	149.8	83.7	128	103
24-Jun	93	78	88.2	73.1	69	150.5	84	127.6	102.6
1-Jul	93	76.9	88.8	73.7	70	149.8	85.2	130.4	104.7
8-Jul	93	78.2	89	74.3	71	149.8	86.2	135	109.3
15-Jul	93	78.6	89.3	74.6	71	149.8	84.3	137.6	111.9
22-Jul	93	79.6	89.2	74.3	71	149.8	86.2	137.1	111.6
29-Jul	93	78.4	89.5	74.2	71	149.8	85.7	137.8	113.7
5-Aug	95	80.5	89.5	74.8	71	158.2	87.1	138	112.4
12-Aug	93	80.1	89.5	74.9	71	158.9	86.7	138.4	112.7
19-Aug	94	77.5	89.3	74.3	68	158.2	87.5	136.3	111.8
26-Aug	94	78.5	89.9	74.1	68	149.8	84.9	133.6	108.5
2-Sep	93	77.6	88.6	74.2	70	149.8	85.7	132.1	109
9-Sep	91	76.1	87.6	72.5	66	149.8	84.1	126.1	102.8
16-Sep	91	75.3	87.4	71.7	63	149.1	84.4	123.7	97.3
23-Sep	91	75.5	86.5	70.5	61	149.8	83.2	121.7	95.4
30-Sep	90	75.9	83.2	66.6	55	141.4	82	107.4	82.7
7-Oct	88	75	81.9	65	52	149.1	82.2	104.6	77.9
14-Oct	86	73.9	79.8	61.9	51	140.7	80.5	96.1	71.7
21-Oct	84	71.4	78	57.7	45	132.3	79.7	89	61.3
28-Oct	82	70.7	75.4	56.4	43	132.3	79	83.8	58.6
4-Nov	82	70.9	74.1	54.3	37	123.9	77.1	82.4	55.2
11-Nov	81	74.6	70.7	51.7	38	132.3	79	73.7	48.9
18-Nov	77	68.1	69.2	49.9	36	112.7	73.3	71.9	45.7
25-Nov	75	68.2	67.7	48.7	35	109.9	72.6	69.3	44.4
2-Dec	75	68.5	66.2	46.4	34	109.9	72.2	65.9	40.7
9-Dec	75	68.9	64	46.2	30	114.8	73.3	65.9	41.7
16-Dec	74	68.2	62.8	44.8	30	102.9	70.8	62.9	37.6
23-Dec	73	68.5	61.4	44.9	25	109.9	71.6	63.3	39.6
31-Dec	73	69.9	59.4	42.9	28	114.1	73.2	57.2	36.6

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	158.4	9.5	440.2
FEB	186.4	14	326.6
MAR	347.8	55.5	204.2
APR	517.4	137.6	74.1
MAY	752.1	302.1	15.1
JUN	886.9	437.2	0.4
JUL	963.6	498.6	0
AUG	965.8	501	0.1
SEP	836.3	391.5	5.2
OCT	582.7	189.6	76.9
NOV	317.9	55.8	225.6
DEC	196.3	18.8	389.9
ANN	6711.6	2611.2	1758.3

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	1	-13662	578	-1600
FEB	8	-10445	640	-1022
MAR	92	-7028	1743	-577
APR	391	-2897	4349	-87
MAY	1977	-735	10196	-1
JUN	4127	-37	17773	0
JUL	5110	-2	22979	0
AUG	5204	-13	22594	0
SEP	3393	-268	15343	-1
OCT	987	-2922	6244	-48
NOV	95	-7529	2207	-475
DEC	7	-12239	1177	-1101
ANN	21392	-57777	105823	-4912

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	MOBILE, AL 13894	Window:	1.000
Lat, Lon, Elev	30.68N 88.25W 220ft	Overhang:	0.904
Press, Stn_Type	14.6psia Secondary	Vert Gap:	0.652

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	850	1120	1400	1720	1860	1880	1770	1660	1500	1330	980	800	1410
	Std.Dev.	70	93	106	134	120	140	121	131	106	116	89	68	38
	Minimum	700	910	1170	1480	1570	1600	1520	1410	1300	1110	720	690	1330
	Maximum	1020	1280	1630	2080	2200	2160	2060	1970	1750	1580	1170	940	1490
	Diffuse	410	480	610	710	830	890	910	830	700	500	410	370	640
Clear Day	Global	1270	1590	1980	2320	2500	2550	2490	2320	2010	1640	1300	1160	1930
NORTH	Global	260	310	380	450	560	620	570	490	410	340	270	240	410
	Diffuse	260	310	380	440	500	530	510	470	410	340	270	240	390
Clear Day	Global	240	290	350	440	580	690	640	490	400	320	260	220	410
EAST	Global	520	660	790	940	1000	1030	990	970	870	790	600	500	810
	Diffuse	300	370	460	540	600	630	630	590	510	420	330	280	470
Clear Day	Global	860	1020	1200	1310	1340	1340	1320	1260	1150	1000	840	780	1120
SOUTH	Global	1060	1130	1020	850	670	590	610	730	940	1230	1180	1070	920
	Diffuse	390	450	500	520	530	520	530	540	540	490	430	380	490
Clear Day	Global	1990	1900	1570	1100	760	630	690	940	1340	1700	1880	1950	1370
WEST	Global	540	690	830	970	1000	960	880	850	820	800	610	510	790
	Diffuse	310	380	470	540	610	620	610	570	510	420	340	290	470
Clear Day	Global	860	1020	1200	1310	1340	1340	1320	1260	1150	1000	840	780	1120

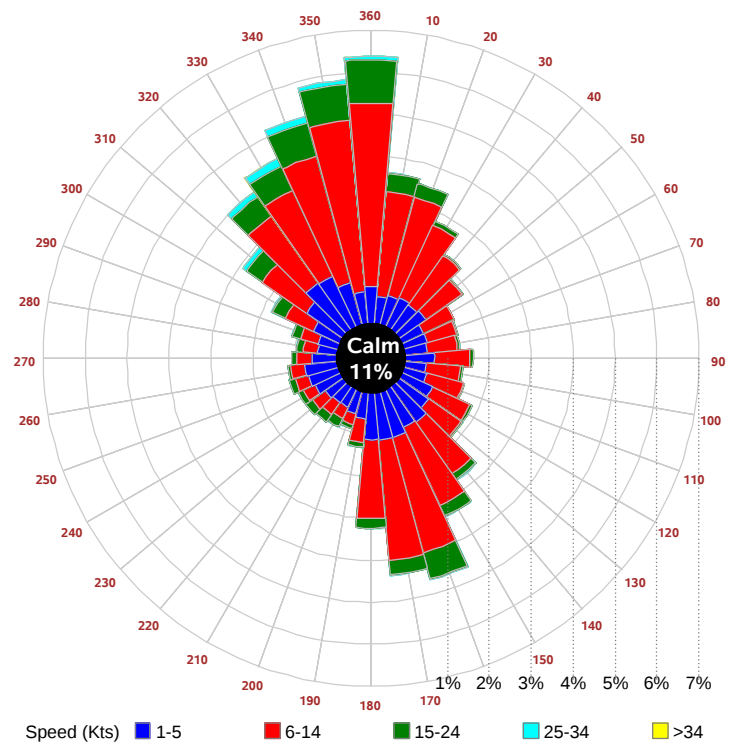
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	590	780	1010	1250	1360	1370	1280	1200	1080	950	680	540	1010
NORTH	Unshaded	180	210	260	310	360	400	370	330	280	230	190	160	270
	Shaded	150	190	230	270	310	340	320	290	250	210	160	140	240
EAST	Unshaded	360	460	560	660	710	730	700	690	620	560	420	340	570
	Shaded	310	390	460	550	580	590	570	560	520	480	360	290	470
SOUTH	Unshaded	780	800	680	520	400	370	380	450	610	860	860	790	630
	Shaded	730	650	380	310	320	320	320	320	330	610	780	760	490
WEST	Unshaded	370	490	590	690	710	680	620	600	580	560	430	350	550
	Shaded	320	410	490	570	580	550	500	490	480	480	370	300	460

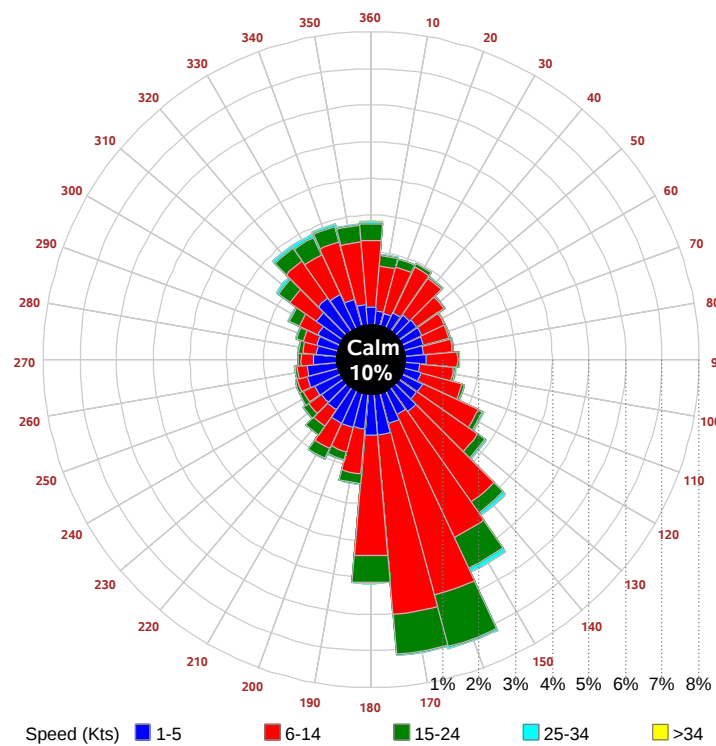
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	50	83	91	70	27	47	86	103	93	62	
	M.Cloudy	26	50	57	43	16	32	62	74	67	42	
NORTH	M.Clear	11	15	16	14	8	23	17	17	18	21	
	M.Cloudy	11	17	18	15	7	17	19	18	19	17	
EAST	M.Clear	80	55	16	14	8	72	69	27	18	16	
	M.Cloudy	25	31	18	15	7	38	47	25	19	15	
SOUTH	M.Clear	40	66	72	56	22	13	22	31	27	16	
	M.Cloudy	17	35	41	30	11	12	21	27	24	15	
WEST	M.Clear	11	15	28	71	65	13	17	17	56	75	
	M.Cloudy	11	17	23	36	22	12	19	18	41	42	
M.Clear	(% hrs)	35	35	33	36	39	42	36	24	26	32	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	33	75	92	81	45	29	58	62	39	4	
	M.Cloudy	21	49	62	55	30	15	31	35	22	3	
NORTH	M.Clear	10	16	17	17	13	8	12	12	10	2	
	M.Cloudy	9	17	19	18	12	7	12	14	9	2	
EAST	M.Clear	65	68	25	17	13	58	41	12	10	2	
	M.Cloudy	26	40	23	18	12	14	19	14	9	2	
SOUTH	M.Clear	21	51	66	57	30	53	86	90	66	11	
	M.Cloudy	12	31	41	36	18	14	29	35	22	3	
WEST	M.Clear	10	16	17	58	70	8	12	29	58	17	
	M.Cloudy	9	17	19	37	34	7	12	18	20	4	
M.Clear	(% hrs)	47	43	33	32	35	37	36	34	34	40	

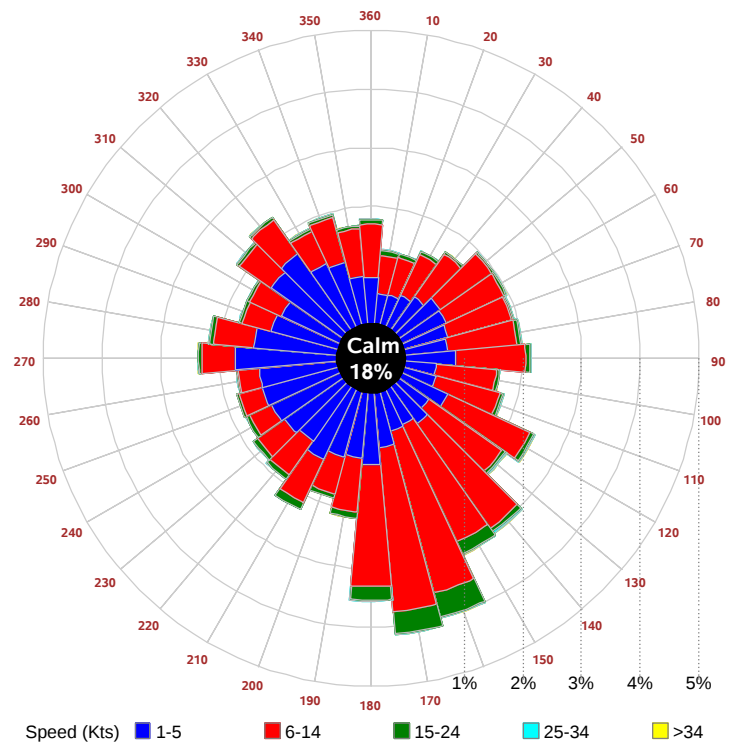
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

