FORT SMITH RGNL, AR

Latitude = 35.34 N	Station ID = ICAO_KFSM
Longitude = 94.37 W	Elevation = 469 Feet
Period of Record = 1988 To 2017	Average Pressure = 29.54 inches Hg

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	102	76	92	8.2	W
0.4% Occurrence	100	76	100	7.8	VRB
1.0% Occurrence	97	76	106	8.2	SW
2.0% Occurrence	94	76	108	8.2	SW
Mean Daily Range	21	-	-	-	E
97.5% Occurrence	27	25	15	6.1	E
99.0% Occurrence	21	19	11	6.4	E
99.6% Occurrence	17	15	8	7.3	N
Median of Extreme Lows	12	11	7	7.4	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	82	92	146	7	E
0.4% Occurrence	80	92	132	7.3	E
1.0% Occurrence	79	91	128	7	E
2.0% Occurrence	78	90	125	6.9	E

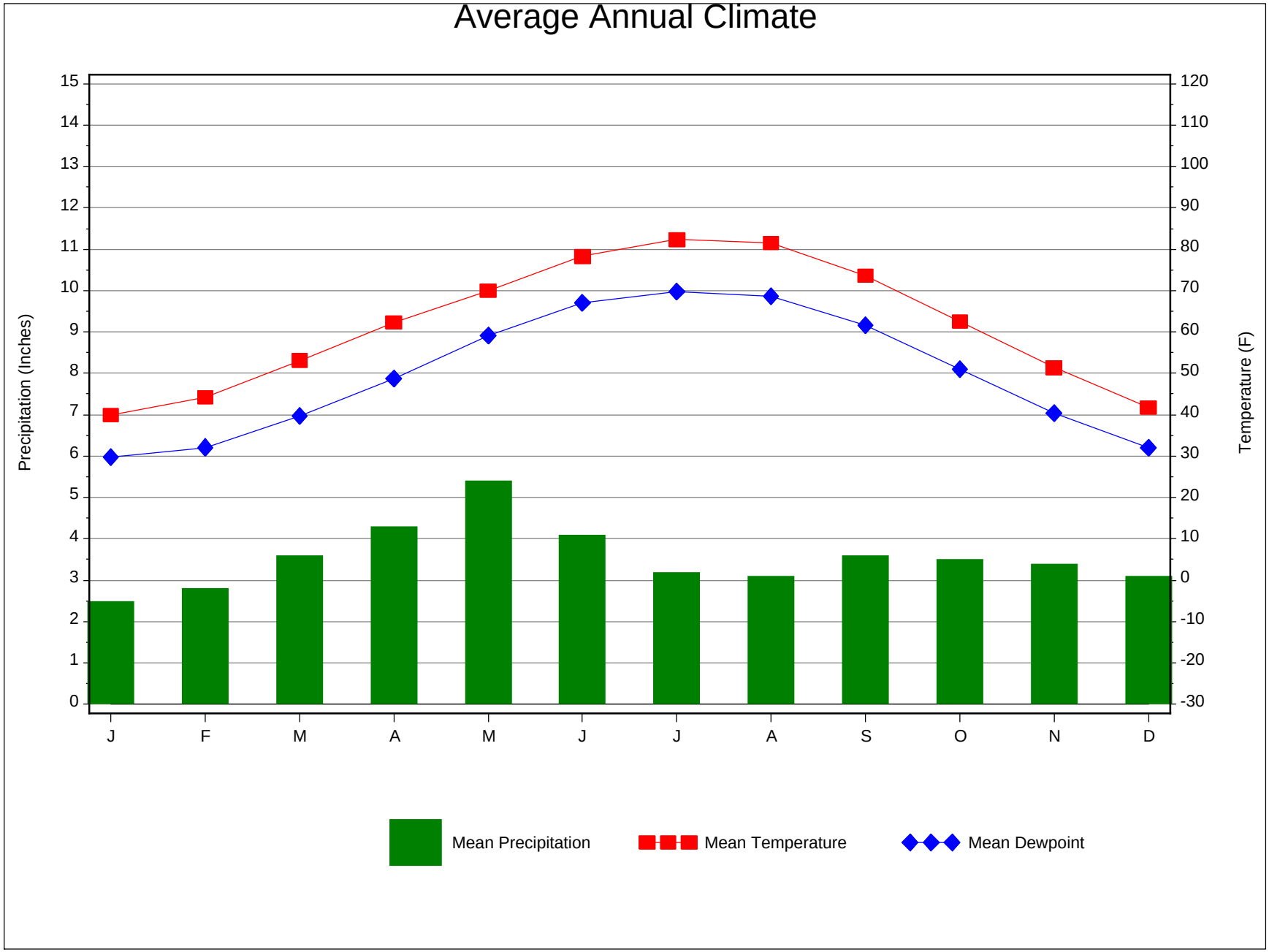
Humidity Ratio (HR)	**Design Value (gr/lb)**	**Dry Bulb Temperature (°F)**	**Vapor Pressure (in. Hg)**	**Wind Speed (mph)**	**Prevailing Direction (NSEW)**
Median of Extreme Highs	153	87	1	6.1	E
0.4% Occurrence	139	85	0.9	5.6	E
1.0% Occurrence	134	84	0.88	5.2	E
2.0% Occurrence	129	83	0.85	5.8	E

Air Conditioning/ Humid Area Criteria	**Threshold**	**T ≥ 93°F**	**T ≥ 80°F**	**Twb ≥ 73°F**	**Twb ≥ 67°F**
	# of Hours	265	1598	1396	2779

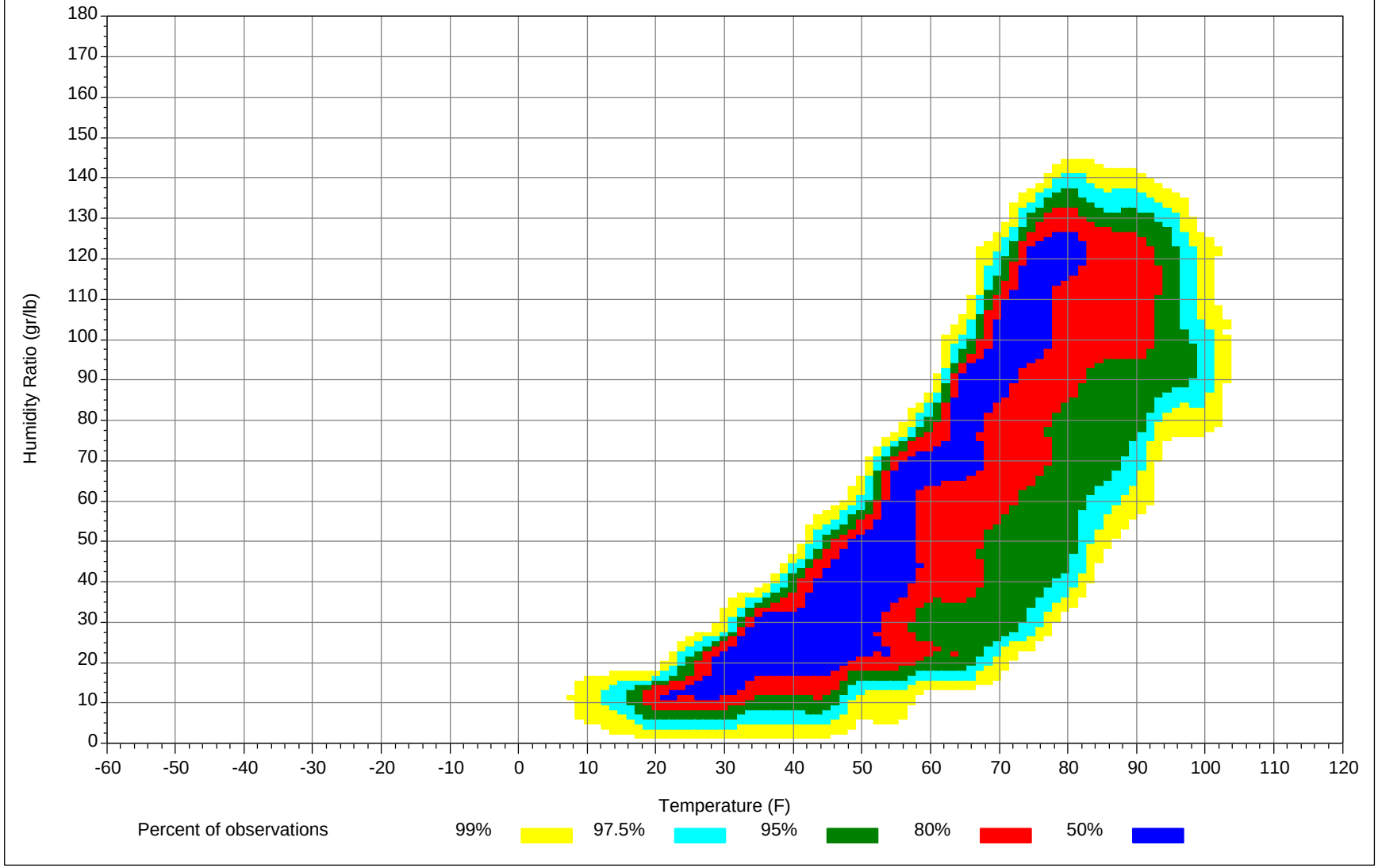
Other Site Data

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	3.8	90	4.7 + 1.9
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 (#)
64.3	20	5	44

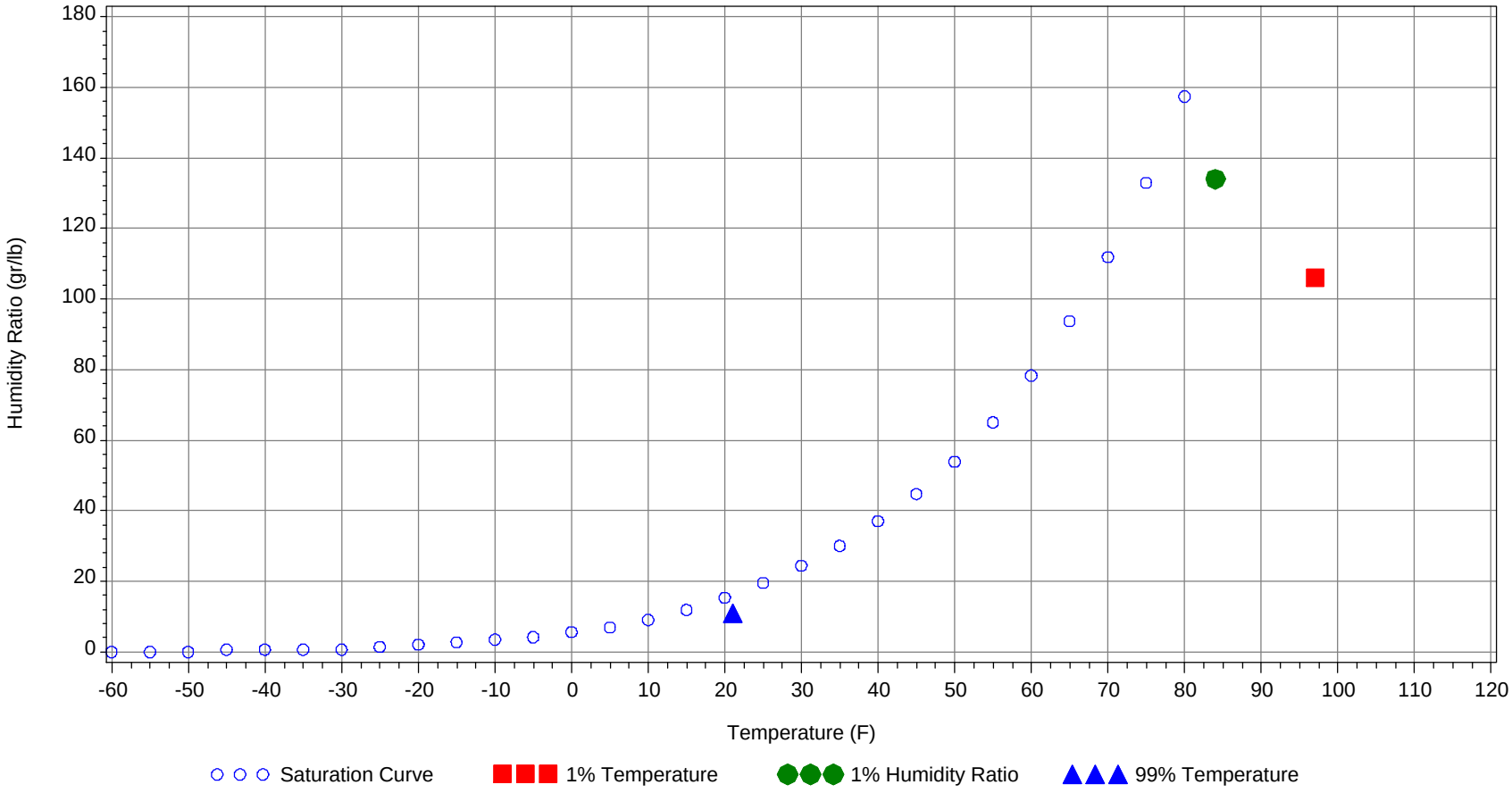
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.


Average Annual Climate
Precipitation (Inches)
Temperature (F)
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
J
F
M
A
M
J
J
A
S
O
N
D
Mean Precipitation
Mean Temperature
Mean Dewpoint

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	97.0		76		106.0	39.9
99.0% Dry Bulb	21.0				11.0	6.7
1.0% Humidity Ratio	134.0	84.0	77.5	75.0		41.1

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**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
115/119															
110/114															
105/109															
100/104															
95/ 99															
90/ 94												0		0	65
85/ 89							0		0	61.5		1	0	1	65.8
80/ 84							0	0	0	64		9	3	12	63.4
75/ 79		1	0	1	59.9		3	1	4	60.1	0	17	9	26	61.8
70/ 74	1	7	3	11	59.8	1	11	5	17	58.3	5	29	20	54	59.1
65/ 69	2	6	3	11	57	3	13	8	24	55.2	7	23	20	50	56.1
60/ 64	4	15	8	27	53.2	5	23	16	44	52.1	17	36	34	87	53.8
55/ 59	5	22	14	41	49.3	8	24	20	52	48.8	26	35	39	100	50.3
50/ 54	9	29	23	61	45.6	14	30	30	74	45.6	37	34	40	111	46.4
45/ 49	23	39	40	102	42	27	37	39	103	41.6	52	31	38	121	42.3
40/ 44	23	32	34	89	38.3	29	24	32	85	38	33	14	19	66	38.5
35/ 39	44	41	48	133	33.9	51	30	36	117	34.2	39	12	17	68	34.6
30/ 34	56	30	39	125	29.6	42	16	22	80	29.7	20	4	6	30	29.9
25/ 29	46	17	22	85	24.6	28	8	9	45	24.6	8	2	2	12	24.9
20/ 24	16	6	7	29	20	10	3	3	16	19.9	3	1	1	5	20.6
15/ 19	11	3	5	19	15.8	4	2	2	8	15.5	1	0	0	1	15
10/ 14	5	1	1	7	10.7	2	1	1	4	11.2	1	0		1	11
5/ 9	1	0	0	1	7.2	1	0	0	1	6.2	0			0	7
0/ 4	0		0	0	2.3	0			0	2.8					
-5/ -1															

Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure 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**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
115/119															
110/114															
105/109												0		0	73.7
100/104												2	1	3	73.6
95/ 99		0	0	0	70.3		0	0	0	74.8		11	4	15	76.2
90/ 94		1	0	1	68.6		10	3	13	72.8	0	50	21	71	75
85/ 89		6	2	8	67.7		24	10	34	71.5	2	54	29	85	74.1
80/ 84	0	26	11	37	65.9	1	55	30	86	69.7	16	63	58	137	72.4
75/ 79	3	38	23	64	63.5	13	55	45	113	67.5	55	33	60	148	71.1
70/ 74	14	49	41	104	61.1	45	48	61	154	65.4	99	20	49	168	68.7
65/ 69	17	31	33	81	58.7	53	27	40	120	62.7	42	6	14	62	64.9
60/ 64	43	39	47	129	56	64	20	36	120	58.9	22	1	4	27	60.8
55/ 59	46	24	39	109	51.8	38	6	16	60	53.9	4		0	4	55.6
50/ 54	52	15	25	92	47.9	22	2	5	29	49.9	1			1	52.5
45/ 49	36	7	13	56	43.4	9	1	2	12	45.4					
40/ 44	16	2	4	22	39.2	2	0	0	2	40.9					
35/ 39	10	0	2	12	35.4	1			1	37.8					
30/ 34	2		0	2	30.3										
25/ 29	0			0	25.1										
20/ 24															
15/ 19															
10/ 14															
5/ 9															
0/ 4															
-5/ -1															

Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure 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

	July					August					September				
Temperature Range (°F)	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
115/119							0	0	0	73.8					
110/114							0	0	0	74.4					
105/109		1	0	1	75.2		2	0	2	74.9		1	0	1	75.2
100/104		10	4	14	75.6		13	4	17	76		2	1	3	75.5
95/ 99		37	15	52	76.9		37	14	51	76.2		8	2	10	74.1
90/ 94	0	76	39	115	76.2	1	64	32	97	75.5		32	9	41	73.4
85/ 89	3	51	40	94	75	2	49	35	86	74.6		35	15	50	72
80/ 84	42	44	69	155	74.1	31	47	65	143	73.5	3	58	38	99	69.7
75/ 79	98	20	51	169	72.9	88	23	59	170	72.3	25	43	51	119	69
70/ 74	82	9	25	116	69.8	91	11	30	132	69.4	75	36	60	171	67
65/ 69	18	1	4	23	65.1	23	2	6	31	64.8	43	14	28	85	63
60/ 64	5	0	0	5	61.2	10		2	12	60.8	48	8	23	79	59
55/ 59	0		0	0	55.8	2		0	2	56.3	28	3	9	40	54.4
50/ 54	0			0	53	0			0	53.5	11	1	4	16	50.4
45/ 49											5	0	1	6	45.8
40/ 44											1		0	1	41.2
35/ 39											0			0	37.4
30/ 34															
25/ 29															
20/ 24															
15/ 19															
10/ 14															
5/ 9															
0/ 4															
-5/ -1															

Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure 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

	October					November					December				
Temperature Range (°F)	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
115/119															
110/114															
105/109															
100/104															
95/ 99		0		0	63										
90/ 94		4	0	4	69.9										
85/ 89		13	2	15	69		0		0	67.4					
80/ 84	0	32	8	40	66.7		4	0	4	65.3		0		0	64
75/ 79	2	37	20	59	64.6	1	15	3	19	63.2		2	0	2	64.1
70/ 74	14	46	36	96	62.8	4	25	11	40	60.9	1	7	3	11	61.7
65/ 69	20	34	35	89	60.1	5	20	13	38	57.8	3	8	4	15	58.3
60/ 64	48	40	55	143	57.4	13	36	29	78	54.9	4	19	8	31	53.9
55/ 59	50	22	39	111	52.8	26	39	37	102	50.9	6	24	16	46	50
50/ 54	47	14	30	91	48.5	35	38	44	117	47.1	14	33	24	71	46.2
45/ 49	38	6	16	60	44.2	48	31	45	124	42.7	28	45	46	119	42.2
40/ 44	15	1	4	20	40	30	16	24	70	38.7	31	32	36	99	38.4
35/ 39	11	0	2	13	35.8	37	12	22	71	34.7	47	41	52	140	34.2
30/ 34	2	0	0	2	31	25	4	9	38	30	54	21	34	109	29.8
25/ 29	0		0	0	25.7	12	1	3	16	25.6	37	10	15	62	24.8
20/ 24	0			0	22.3	3	0	0	3	21.4	12	3	4	19	20.2
15/ 19						0			0	17	7	2	3	12	15.7
10/ 14											3	1	1	5	11.2
5/ 9											1	0	0	1	5.9
0/ 4											0	0	0	0	0.9
-5/ -1											0			0	-3.6

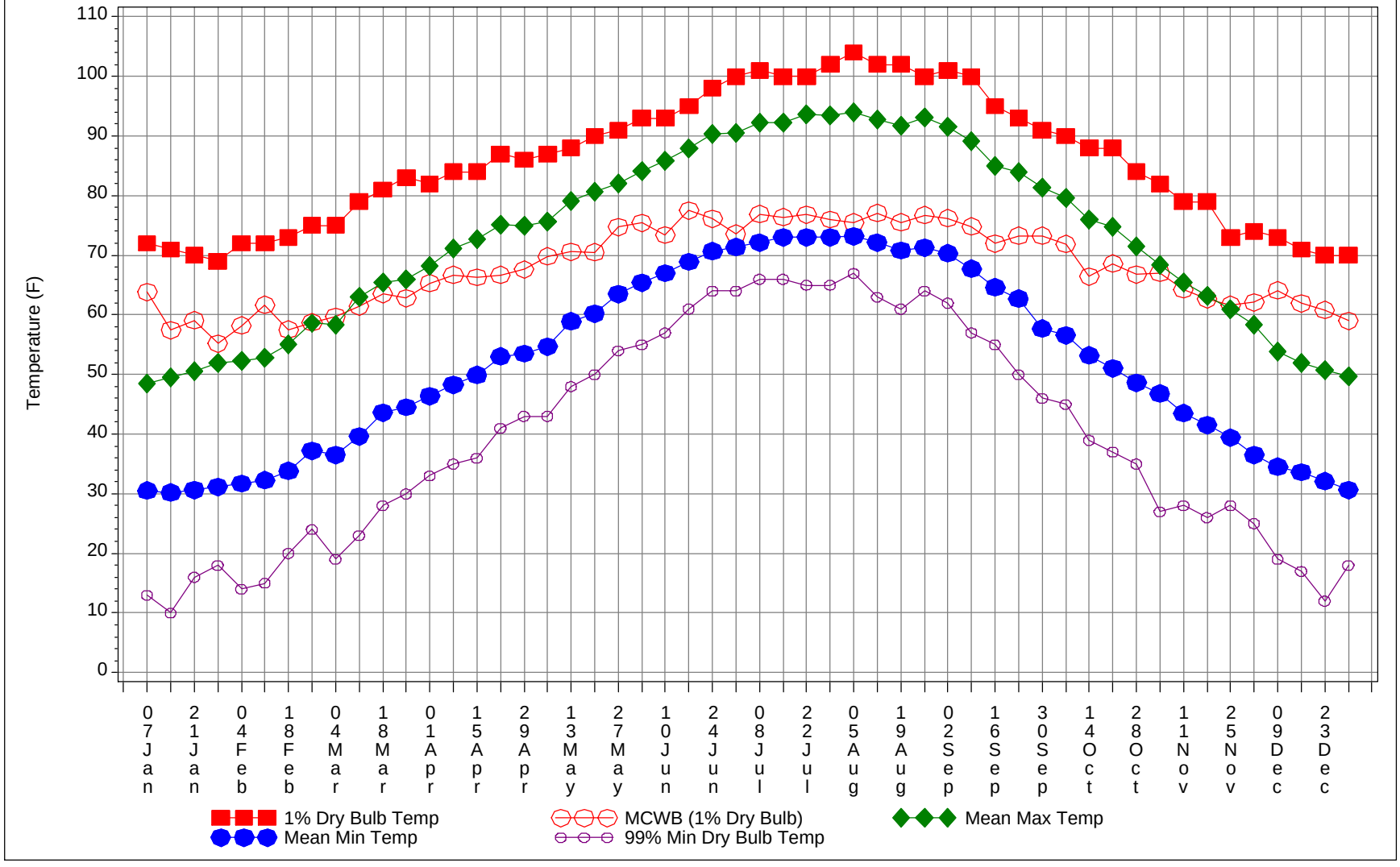
Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

Dry-Bulb Temperature Hours For An Average Year

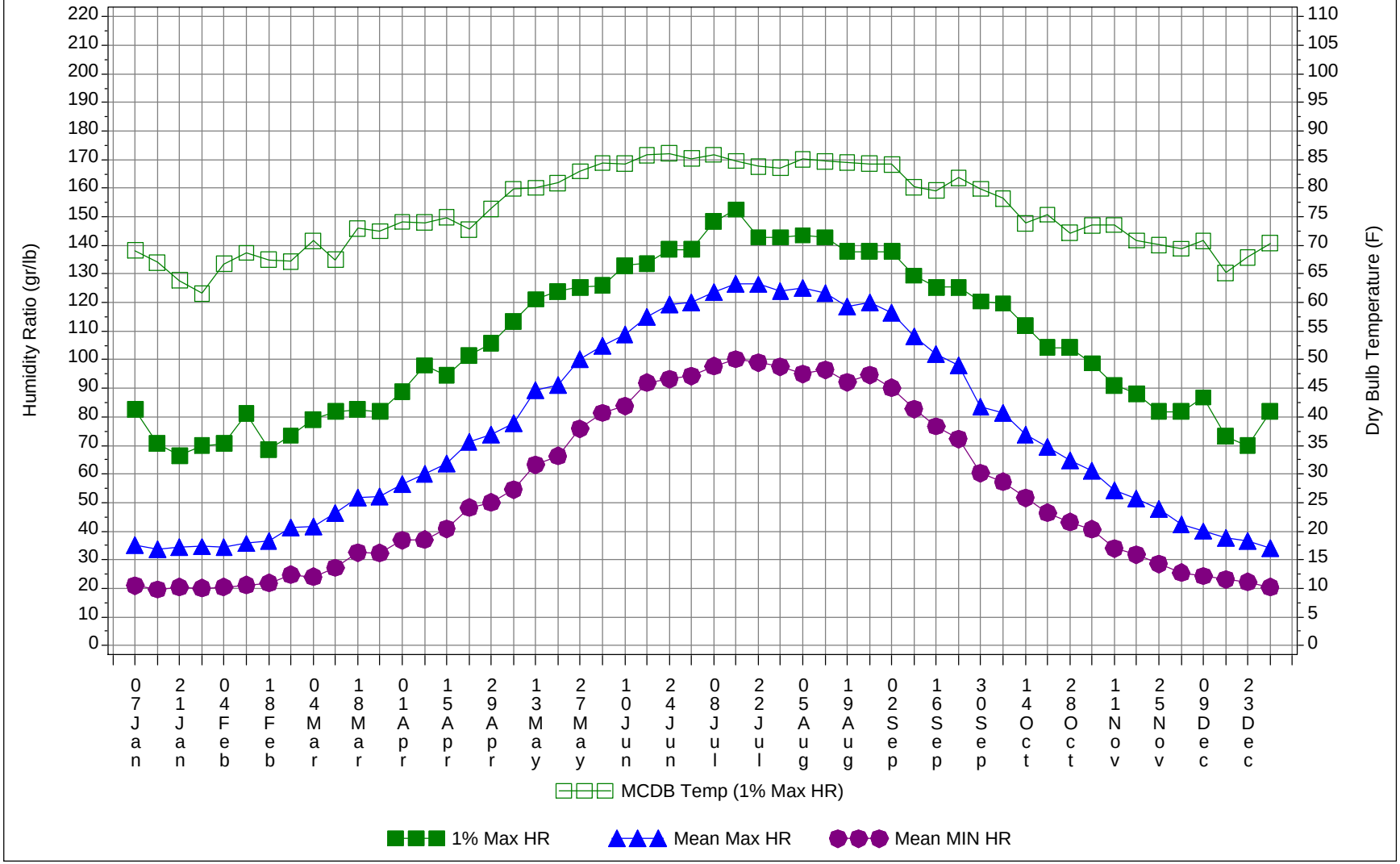
	Annual				
Temperature Range (°F)	**01 To 08 LST**	**09 To 16 LST**	**17 to 00 LST**	**Total Obs**	**MCWB (°F)**
115/119		0	0	0	73.8
110/114		0	0	0	74.4
105/109		4	1	5	75
100/104		27	9	36	75.7
95/ 99		93	35	128	76.3
90/ 94	1	237	104	342	75.2
85/ 89	7	233	133	373	73.6
80/ 84	93	337	283	713	71.4
75/ 79	285	286	321	892	69.4
70/ 74	432	297	343	1072	65.8
65/ 69	234	184	206	624	60.9
60/ 64	282	237	263	782	56.5
55/ 59	239	199	229	667	51.5
50/ 54	243	196	225	664	47.1
45/ 49	267	196	239	702	42.5
40/ 44	181	122	155	458	38.5
35/ 39	240	136	180	556	34.3
30/ 34	202	74	111	387	29.7
25/ 29	131	37	52	220	24.8
20/ 24	44	13	16	73	20.1
15/ 19	23	7	10	40	15.7
10/ 14	11	2	3	16	11
5/ 9	2	0	1	3	6.5
0/ 4	1	0	0	1	1.6
-5/ -1	0			0	-3.6

Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure 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



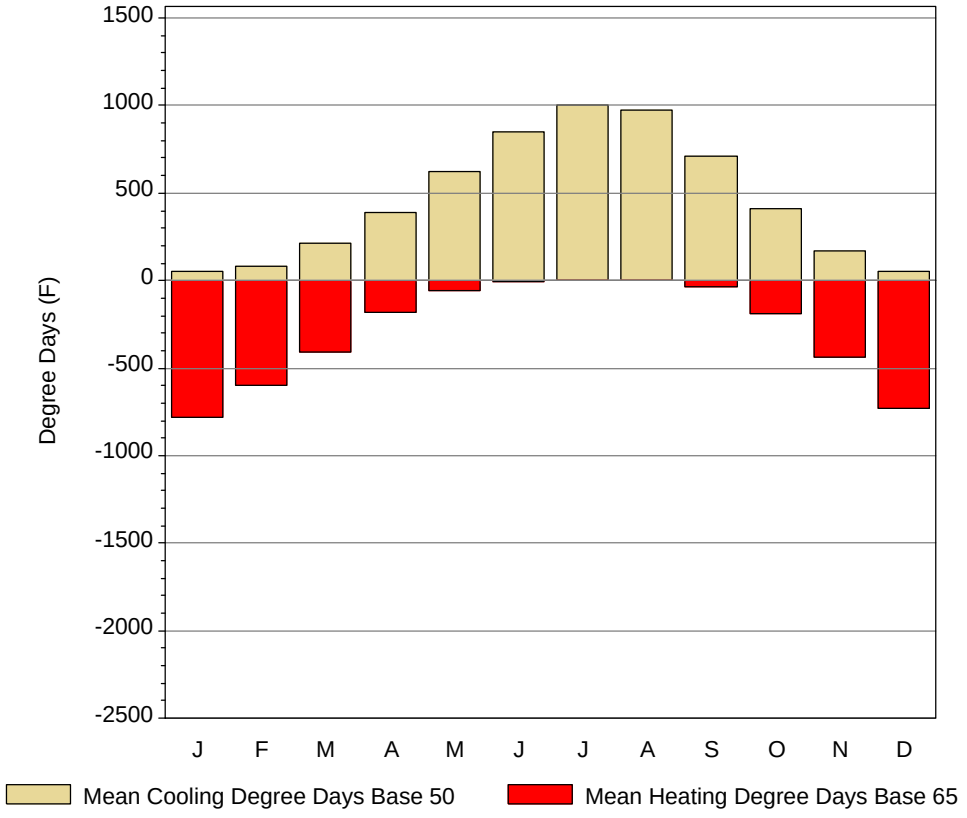
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

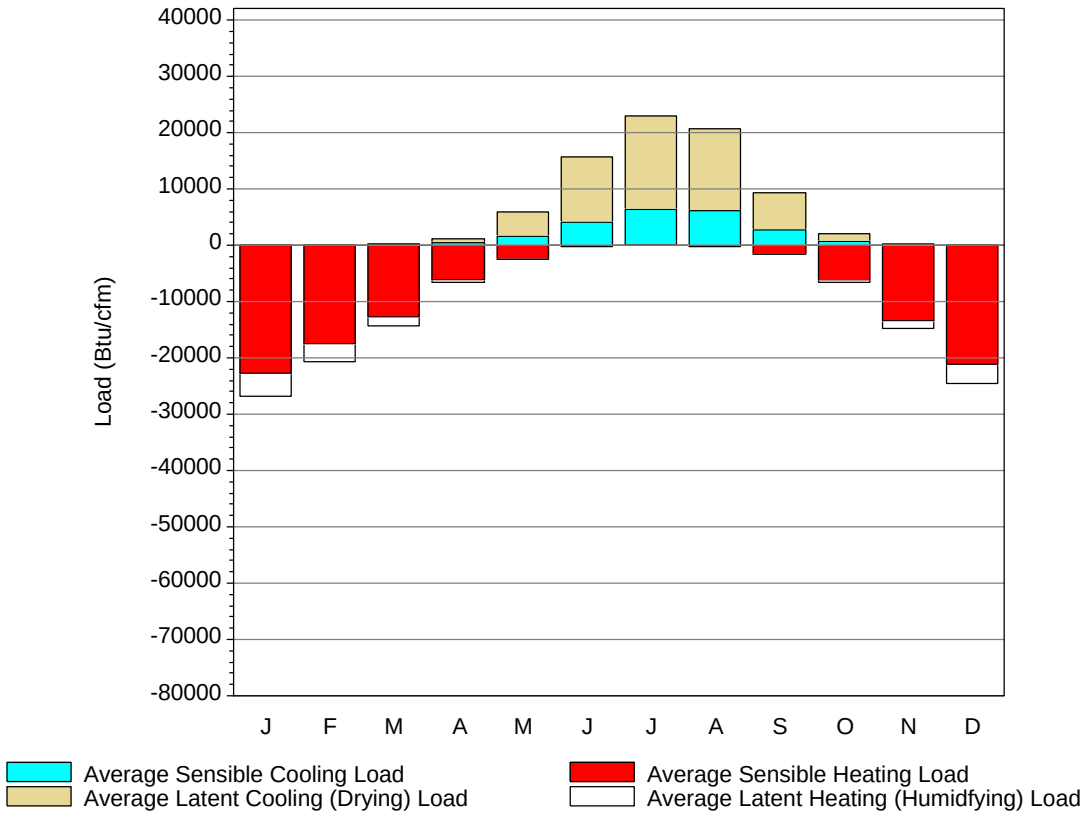
Week Ending	1.0% Temp (°F)	MCWB@ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB@ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	72	63.8	48.5	30.5	13	82.6	69.1	35.2	20.9
14-Jan	71	57.4	49.6	30.2	10	70.7	67	33.8	19.6
21-Jan	70	59.1	50.6	30.6	16	66.5	63.9	34.5	20.4
28-Jan	69	55.2	52	31.1	18	70	61.6	34.6	20.1
4-Feb	72	58.2	52.3	31.7	14	70.7	66.8	34.4	20.5
11-Feb	72	61.7	52.8	32.3	15	81.2	68.7	35.7	21.2
18-Feb	73	57.5	55.1	33.8	20	68.6	67.5	36.5	21.8
25-Feb	75	58.7	58.6	37.2	24	73.5	67.2	41.3	24.8
4-Mar	75	59.7	58.4	36.5	19	79.1	70.8	41.7	24.1
11-Mar	79	61.4	63	39.6	23	81.9	67.5	46.4	27.2
18-Mar	81	63.5	65.4	43.6	28	82.6	73	51.7	32.5
25-Mar	83	62.8	66	44.5	30	81.9	72.5	52.2	32.3
1-Apr	82	65.3	68.2	46.4	33	88.9	74.1	56.6	36.9
8-Apr	84	66.7	71.2	48.3	35	98	74	60.2	37
15-Apr	84	66.3	72.7	49.9	36	94.5	74.9	63.6	40.9
22-Apr	87	66.7	75.2	53	41	101.5	72.8	71.4	48.2
29-Apr	86	67.6	75	53.5	43	105.7	76.4	73.8	50
6-May	87	69.8	75.7	54.7	43	113.4	79.9	77.9	54.5
13-May	88	70.6	79.1	58.9	48	121.1	80.1	89.3	63.3
20-May	90	70.5	80.7	60.2	50	123.9	80.9	91.2	66.3
27-May	91	74.7	82	63.5	54	125.3	83	100.3	75.8
4-Jun	93	75.4	84.1	65.4	55	126	84.4	104.9	81.4
10-Jun	93	73.4	85.9	67	57	133	84.3	109	83.9
17-Jun	95	77.5	88	68.9	61	133.7	85.8	115.1	92
24-Jun	98	76.1	90.3	70.7	64	138.6	86.1	119.3	93.3
1-Jul	100	73.6	90.6	71.4	64	138.6	85.2	120.2	94.3
8-Jul	101	76.9	92.2	72.1	66	148.4	85.9	123.8	97.7
15-Jul	100	76.4	92.2	73	66	152.6	84.8	126.5	100.2
22-Jul	100	76.8	93.6	73	65	142.8	83.8	126.4	99
29-Jul	102	76	93.5	73	65	142.8	83.6	123.9	97.6
5-Aug	104	75.5	94	73.2	67	143.5	85.1	125.2	95
12-Aug	102	77.1	92.7	72.1	63	142.8	84.7	123.2	96.5
19-Aug	102	75.5	91.7	70.8	61	137.9	84.5	118.6	92.1
26-Aug	100	76.7	93.1	71.3	64	137.9	84.3	120.1	94.7
2-Sep	101	76.2	91.6	70.3	62	137.9	84.2	116.4	90.1
9-Sep	100	74.8	89.2	67.7	57	129.5	80.2	108	82.8
16-Sep	95	72	84.9	64.6	55	125.3	79.6	101.9	76.7
23-Sep	93	73.3	84	62.7	50	125.3	81.8	98.1	72.2
30-Sep	91	73.3	81.3	57.7	46	120.4	79.9	83.7	60.3
7-Oct	90	71.9	79.6	56.6	45	119.7	78.2	81.5	57.3
14-Oct	88	66.4	76	53.2	39	112	73.9	73.9	51.7
21-Oct	88	68.6	74.7	51	37	104.3	75.4	69.4	46.5
28-Oct	84	66.8	71.5	48.6	35	104.3	72.2	64.8	43.2
4-Nov	82	67	68.4	46.8	27	98.7	73.5	61.3	40.6
11-Nov	79	64.3	65.5	43.5	28	91	73.6	54.3	34
18-Nov	79	62.6	63.2	41.5	26	88.2	70.9	51.3	31.8
25-Nov	73	61.7	61	39.4	28	81.9	70.1	47.8	28.5
2-Dec	74	62.1	58.4	36.5	25	81.9	69.4	42.3	25.5
9-Dec	73	64.1	53.8	34.5	19	86.8	70.8	40	24.3
16-Dec	71	61.9	52	33.6	17	73.2	65.2	37.7	23.1
23-Dec	70	60.8	50.7	32.1	12	70	67.9	36.6	22.2
31-Dec	70	59	49.7	30.6	18	81.9	70.4	34	20.4

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	49.8	4.2	781.4
FEB	80.7	8.9	597.7
MAR	211.6	40.5	409.5
APR	391.5	101	182.5
MAY	623.3	215.2	59.3
JUN	850.1	404.4	4.3
JUL	1002.5	537.9	0.5
AUG	976.7	513.6	1.8
SEP	709.7	293.4	34.9
OCT	411.2	108.3	185.6
NOV	167	25.7	434.3
DEC	56.1	4.8	727.7
ANN	5530.2	2257.9	3419.5

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	-22604	12	-4112
FEB	11	-17575	9	-3005
MAR	148	-12631	59	-1579
APR	519	-6219	680	-357
MAY	1546	-2413	4472	-12
JUN	4129	-277	11678	0
JUL	6492	-51	16412	0
AUG	6078	-124	14640	0
SEP	2681	-1465	6657	-6
OCT	673	-6365	1395	-244
NOV	64	-13316	152	-1452
DEC	3	-21205	23	-3387
ANN	22345	-104245	56189	-14154

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	FORTSMITH, AR 13964	Window:	1.000
Lat, Lon, Elev	35.33N 94.37W 463ft	Overhang:	0.402
Press, Stn_Type	14.5psia Secondary	Vert Gap:	0.289

AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day) Percentage Uncertainty = 9

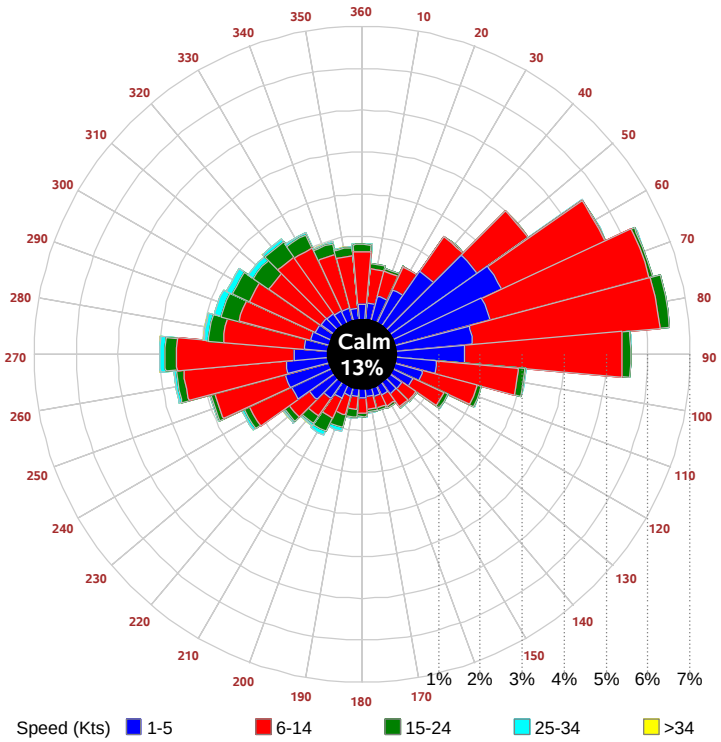
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ.	Global	820	1070	1380	1700	1910	2060	2100	1890	1520	1230	870	730	1440
	Std.Dev.	68	68	106	119	130	111	134	108	112	116	80	52	37
	Minimum	680	900	1190	1500	1690	1820	1840	1600	1300	990	700	650	1380
	Maximum	940	1220	1640	1990	2190	2310	2430	2070	1770	1410	1010	860	1530
	Diffuse	360	460	600	720	800	820	760	710	630	470	380	330	590
Clear Day	Global	1110	1450	1890	2310	2550	2630	2560	2330	1970	1540	1150	1000	1880
NORTH	Global	240	300	380	460	560	640	600	490	400	320	250	210	400
	Diffuse	240	300	380	450	500	530	510	460	400	320	250	210	380
Clear Day	Global	210	270	340	430	580	690	630	480	360	290	230	200	390
EAST	Global	530	660	810	960	1030	1090	1150	1060	880	760	550	480	830
	Diffuse	290	360	460	540	600	630	610	570	490	390	300	260	460
Clear Day	Global	790	980	1190	1360	1430	1430	1400	1340	1200	1010	820	730	1140
SOUTH	Global	1210	1210	1120	950	770	700	750	910	1060	1260	1160	1140	1020
	Diffuse	390	450	510	540	550	550	540	550	530	470	400	360	490
Clear Day	Global	2010	1980	1720	1270	910	770	820	1090	1500	1840	1950	1960	1480
WEST	Global	550	670	830	990	1080	1150	1140	1070	910	780	580	500	860
	Diffuse	290	360	460	550	610	640	620	580	500	400	300	260	470
Clear Day	Global	790	980	1190	1360	1430	1430	1400	1340	1200	1010	820	730	1140

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	740	990	1230	1390	1500	1530	1380	1090	870	590	480	1030
NORTH	Unshaded	160	210	260	310	370	410	390	320	270	220	170	150	270
	Shaded	150	190	240	290	330	370	360	300	250	200	160	140	250
EAST	Unshaded	370	470	570	680	730	780	820	760	620	530	380	330	590
	Shaded	340	430	520	610	660	690	740	680	560	490	350	300	530
SOUTH	Unshaded	900	880	760	600	470	420	440	550	700	900	860	860	690
	Shaded	880	830	630	440	350	350	350	390	540	810	840	840	600
WEST	Unshaded	390	480	590	700	770	820	810	760	650	550	400	340	610
	Shaded	360	440	540	630	690	730	730	690	590	510	370	320	550

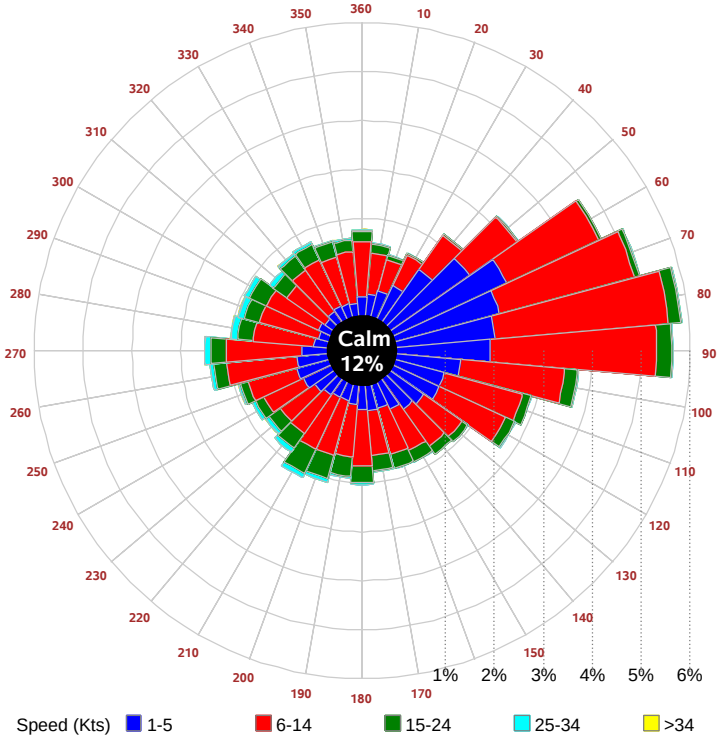
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9											
				March					June		
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	38	75	88	73	35	42	81	102	99	73
	M.Cloudy	21	47	57	46	22	27	57	73	75	54
NORTH	M.Clear	9	14	15	14	9	22	16	17	17	16
	M.Cloudy	9	16	18	16	9	15	18	19	19	17
EAST	M.Clear	77	63	15	14	9	74	76	38	17	16
	M.Cloudy	25	34	18	16	9	35	48	31	19	17
SOUTH	M.Clear	35	68	79	66	32	11	23	39	37	19
	M.Cloudy	15	36	45	36	16	11	21	32	32	19
WEST	M.Clear	9	14	17	65	74	11	16	17	47	77
	M.Cloudy	9	16	19	35	28	11	18	19	38	52
M.Clear	(% hrs)	35	34	35	35	36	39	40	39	37	45

				Sept					Dec		
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	24	66	89	84	54	16	47	56	40	7
	M.Cloudy	14	41	57	58	37	9	28	34	23	5
NORTH	M.Clear	8	14	16	16	13	6	10	12	9	3
	M.Cloudy	6	15	18	18	14	4	11	13	9	2
EAST	M.Clear	60	74	35	16	13	47	46	12	9	3
	M.Cloudy	19	36	26	18	14	12	20	13	9	2
SOUTH	M.Clear	16	50	70	66	40	39	82	93	74	19
	M.Cloudy	8	28	41	42	25	10	30	37	25	6
WEST	M.Clear	8	14	16	49	75	6	10	18	54	27
	M.Cloudy	6	15	18	34	39	4	11	15	20	7
M.Clear	(% hrs)	43	43	40	43	46	36	37	39	40	39

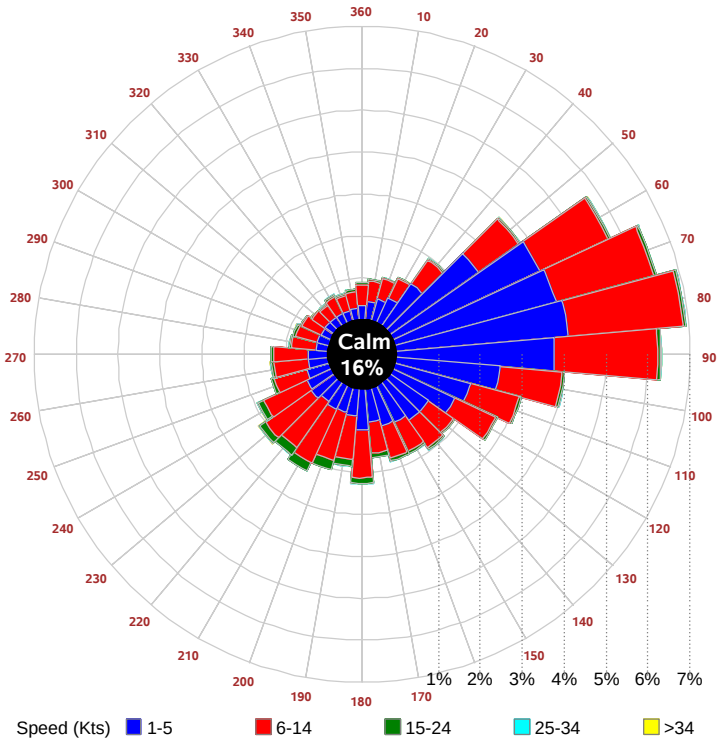
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November