

FORT SMITH AR

Latitude = 35.33 N

WMO No. 723440

Longitude = 94.37 W

Elevation = 463 feet

Period of Record = 1973 to 1996

Average Pressure = 29.52 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	100	76	97	9.1	W
0.4% Occurrence	98	76	100	8.8	SW
1.0% Occurrence	96	76	103	9.0	WSW
2.0% Occurrence	93	76	107	8.7	SW
Mean Daily Range	22	-	-	-	-
97.5% Occurrence	23	21	13	6.8	E
99.0% Occurrence	18	16	9	7.4	E
99.6% Occurrence	13	12	7	7.4	N
Median of Extreme Lows	6	5	4	8.6	NNW
	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	82	94	148	6.6	E
0.4% Occurrence	79	92	130	7.9	SW
1.0% Occurrence	78	90	126	7.7	SW
2.0% Occurrence	77	90	121	7.8	SW
	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	148	85	0.97	4.7	E
0.4% Occurrence	135	85	0.88	5.5	ENE
1.0% Occurrence	132	84	0.87	5.1	E
2.0% Occurrence	128	82	0.85	5.5	E
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		203	1379	1152	2562

Other Site Data

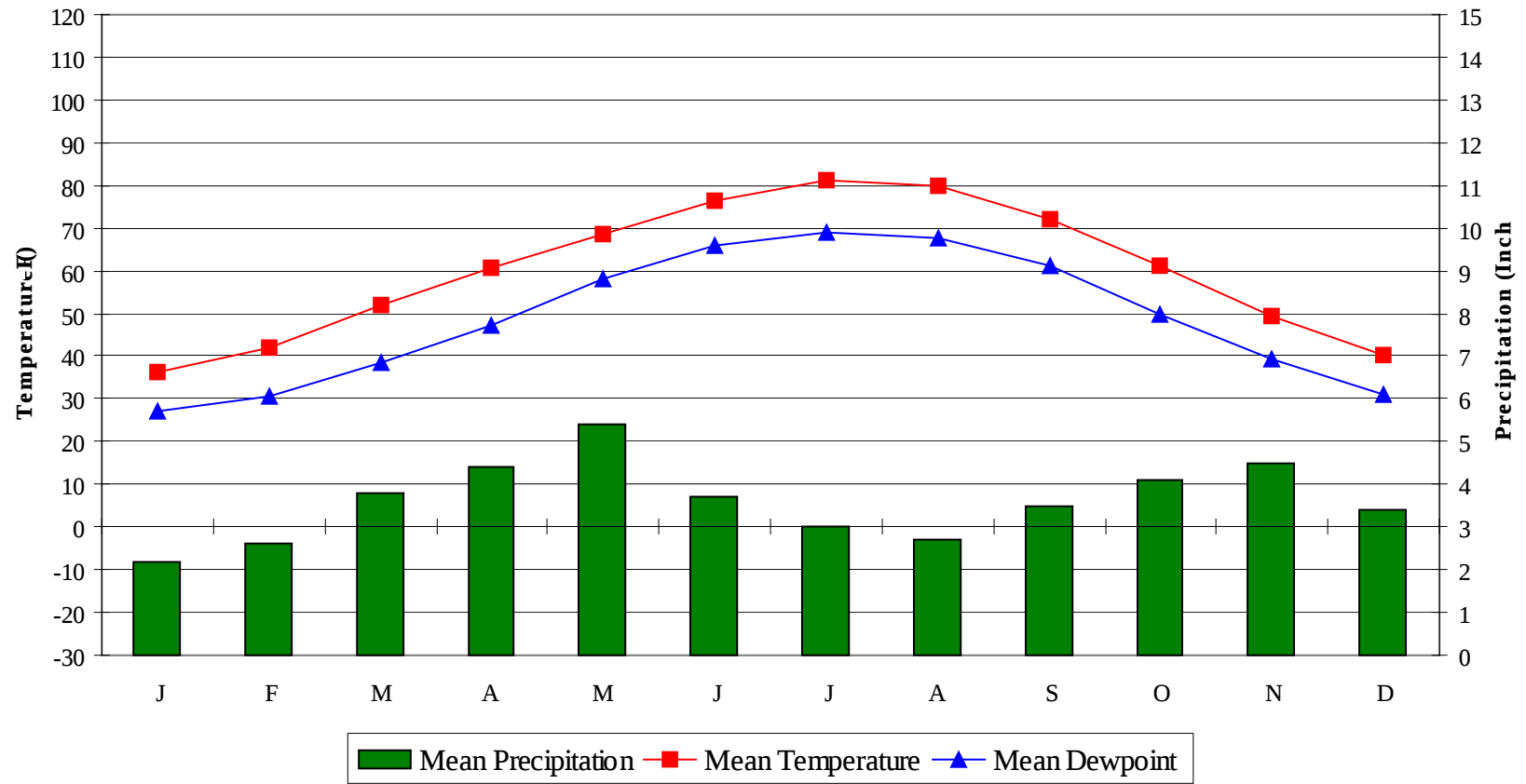
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
11	3.8	90	4.0 + 1.6
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
62.5	20	5	52

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

FORT SMITH AR

WMO No. 723440

Average Annual Climate

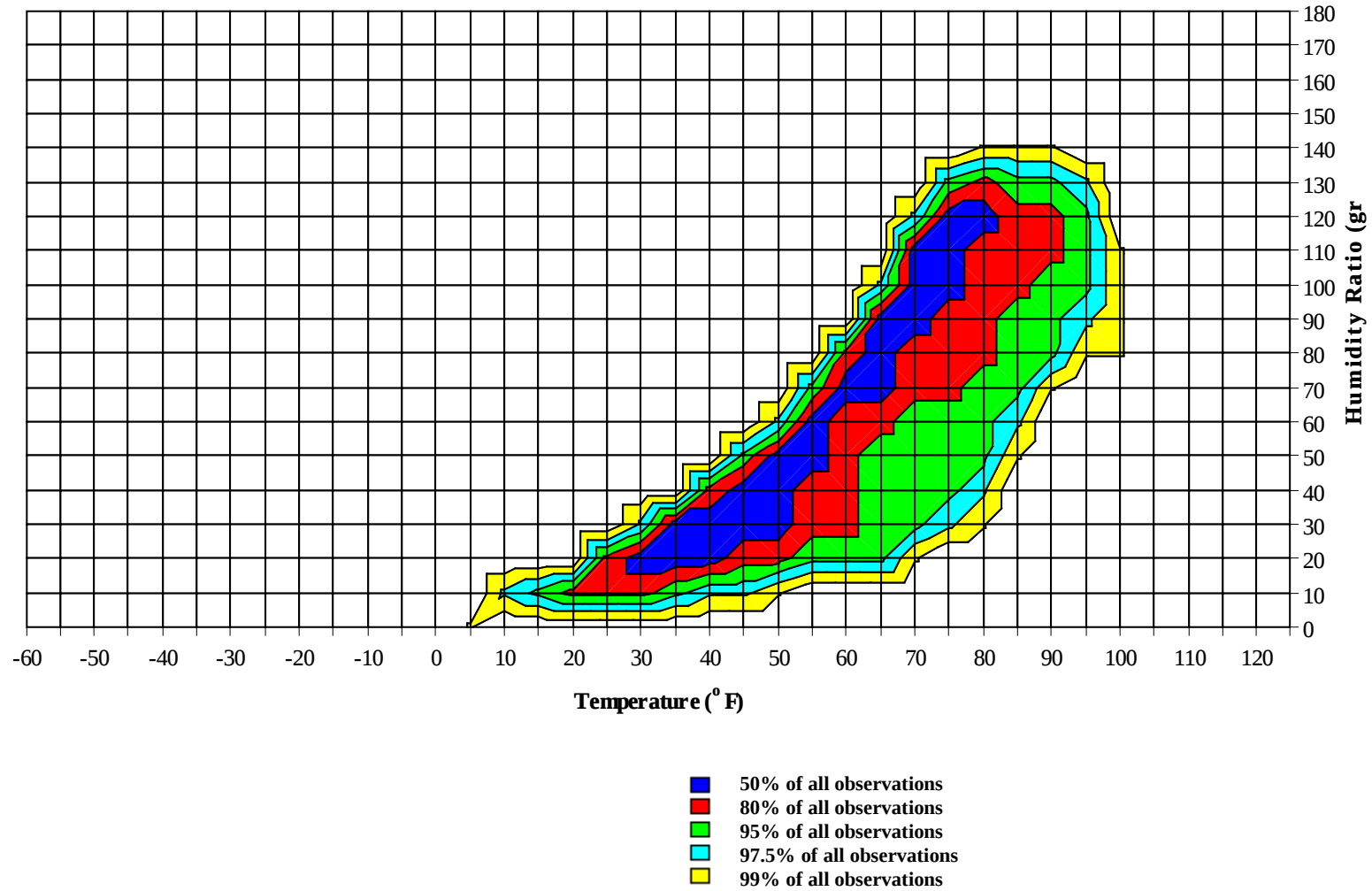


FORT SMITH

AR

WMO No. 723440

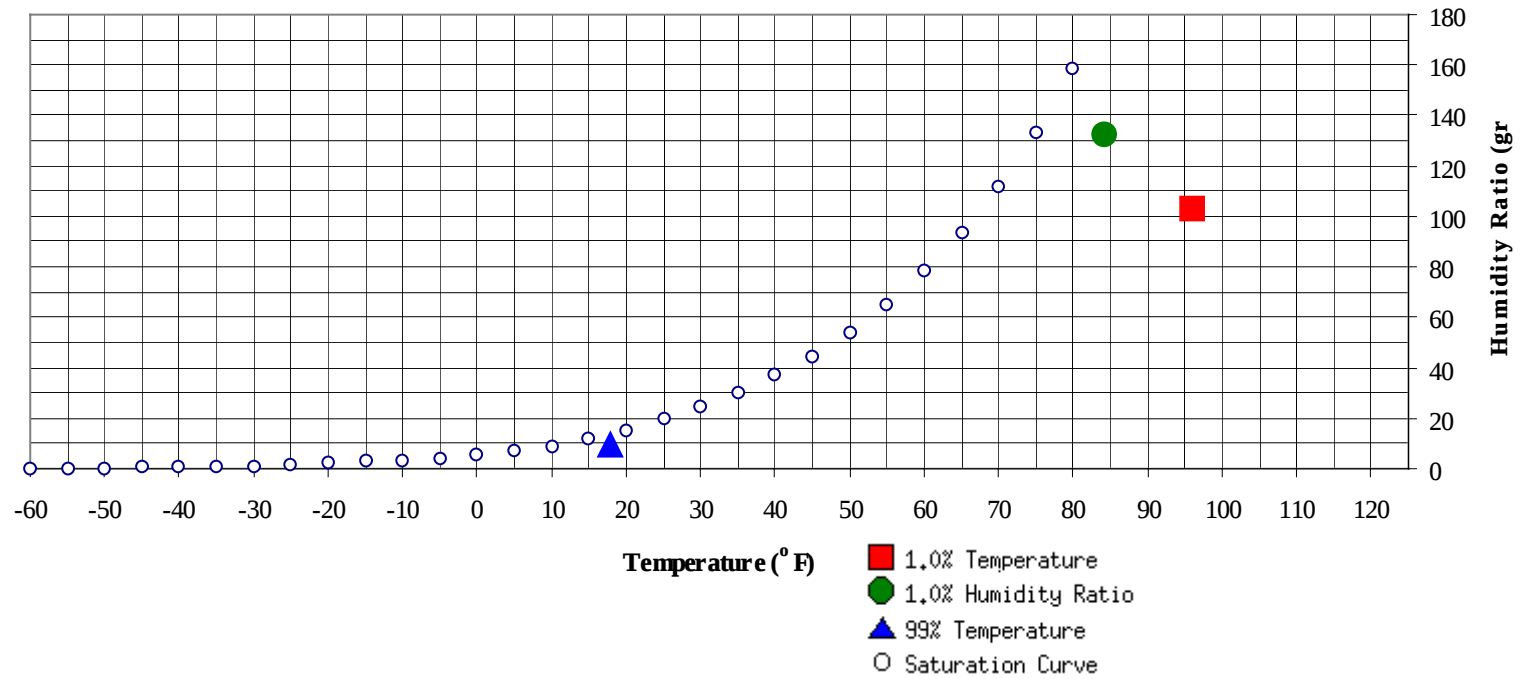
Long Term Psychrometric Summary



FORT SMITH

AR

WMO No. 723440

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	18	9.4	5.8		132.3	84.3	77.4	75	41.0

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	96	102.8	75.7	39.2

FORT SMITH

AR

WMO No. 723440

Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

Period of Record = 1973 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		
105 / 109															
100 / 104															
95 / 99															
90 / 94												0	0	0	65.4
85 / 89												1	0	1	65.2
80 / 84							0	0	1	58.1		7	2	9	62.3
75 / 79		0		0	58.3		4	1	5	58.2					
70 / 74		2	1	3	58.2		9	3	12	57.1	0	17	8	25	60.9
65 / 69	1	5	2	7	55.5	1	14	8	23	54.6	3	23	15	41	59.0
60 / 64	2	12	5	19	52.0	3	20	14	37	51.8	7	28	22	57	55.8
55 / 59	3	16	9	27	48.9	5	21	18	44	49.0	13	34	32	78	53.4
50 / 54	6	25	16	47	45.3	14	27	25	66	46.0	20	33	35	88	49.9
45 / 49	12	30	26	68	42.1	22	27	30	80	42.2	37	36	42	114	46.5
40 / 44	24	38	39	101	38.3	32	30	35	97	38.3	46	28	38	112	42.6
35 / 39	36	40	47	124	33.8	39	26	32	97	34.0	43	20	27	90	38.4
30 / 34	55	36	47	138	29.7	43	23	29	95	29.4	38	13	17	68	34.1
25 / 29	48	20	28	97	25.0	30	11	15	56	24.8	25	5	8	38	29.9
20 / 24	33	13	17	62	20.3	18	6	8	32	20.2	11	1	3	15	25.0
15 / 19	15	5	7	28	15.6	9	2	4	15	15.7	3	1	1	5	20.5
10 / 14	9	3	3	15	10.7	4	1	1	7	11.1	1	0	0	1	15.1
5 / 9	3	1	1	6	6.0	1	0	0	2	6.4	0			0	11.4
0 / 4	1	0	0	2	1.5	1	0		1	2.6					
-5 / -1	0	0	0	0	-3.2	0			0	-1.4					
-10 / -6	0			0	-7.0	0			0	-5.0					

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.

FORT SMITH

AR

WMO No. 723440

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**Period of Record = 1973 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		
105 / 109															
100 / 104							0		0	87.0		1	0	1	77.0
95 / 99		0		0	65.0		0		0			7	2	10	76.8
90 / 94		1	0	1	67.0		4	1	5	73.3		36	12	48	75.7
85 / 89		7	2	8	67.0		24	8	32	71.6	1	63	29	92	74.1
80 / 84		24	9	33	64.7	0	50	23	73	69.1	8	63	47	118	71.9
75 / 79	1	37	21	59	62.9	6	57	40	103	66.6	38	39	62	139	70.5
70 / 74	9	40	30	79	61.0	27	46	52	125	65.0	83	22	52	156	68.5
65 / 69	20	39	39	99	58.5	64	37	54	155	62.7	67	8	27	102	64.7
60 / 64	39	37	45	121	55.7	65	19	40	124	58.7	30	1	8	39	60.1
55 / 59	39	23	37	98	51.7	41	7	21	69	54.3	10	0	1	12	55.6
50 / 54	47	18	31	96	47.5	28	2	8	38	50.0	3			3	51.3
45 / 49	39	8	16	64	43.5	13	0	2	15	45.7	0			0	46.0
40 / 44	27	4	8	40	39.3	4		0	4	41.1					
35 / 39	14	1	3	18	35.0	0			0	38.3					
30 / 34	4	0	1	5	30.7										
25 / 29	1			1	26.2										
20 / 24	0			0	22.0										
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-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.

FORT SMITH

AR

WMO No. 723440

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)**Period of Record = 1973 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		
105 / 109		1	0	1	74.9		0		0	76.0					
100 / 104		7	3	10	75.4		7	2	9	75.3		1	0	1	75.6
95 / 99		32	11	43	76.2		30	10	39	75.8		7	2	8	73.9
90 / 94	0	72	31	103	75.9	0	56	22	78	75.5		24	6	30	73.6
85 / 89	2	63	40	105	74.7	1	62	35	98	74.1	0	41	15	57	72.5
80 / 84	21	41	62	124	73.6	11	49	55	116	72.9	2	48	29	80	70.2
75 / 79	86	21	66	173	72.4	67	28	70	165	71.9	17	42	48	107	69.1
70 / 74	102	8	30	140	69.9	107	11	41	160	69.5	64	33	52	149	67.4
65 / 69	31	1	5	38	65.3	45	2	12	59	64.9	57	23	39	119	63.4
60 / 64	6	0	1	6	60.6	14	0	2	16	60.4	43	11	25	78	58.8
55 / 59	1		0	1	56.2	3		0	4	55.8	27	7	14	47	54.3
50 / 54	0			0	53.0	1			1	51.6	16	1	8	25	50.1
45 / 49											10	0	3	12	45.8
40 / 44											4		1	5	41.3
35 / 39											1			1	37.7
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-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.

FORT SMITH

AR

WMO No. 723440

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)**Period of Record = 1973 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		
105 / 109															
100 / 104															
95 / 99															
90 / 94		2	0	3	68.4										
85 / 89		10	2	12	68.4		0		0	65.7					
80 / 84	1	26	5	32	66.3		4	0	4	63.2					
75 / 79	2	43	16	61	63.6	0	12	2	14	63.3		1	0	1	66.5
70 / 74	5	40	27	73	61.8	3	20	7	30	61.5	1	6	1	8	61.7
65 / 69	21	43	44	108	59.8	7	22	14	43	58.5	3	9	4	16	58.3
60 / 64	46	35	51	132	57.2	14	30	24	69	55.3	3	18	8	29	53.6
55 / 59	43	22	40	104	52.9	18	33	31	82	51.3	5	20	13	38	49.9
50 / 54	46	15	31	92	48.5	29	37	38	104	47.1	12	30	20	62	46.0
45 / 49	39	6	20	65	44.5	40	33	43	116	43.0	20	42	36	98	42.7
40 / 44	25	2	10	37	40.3	38	25	36	99	38.8	33	40	46	119	38.4
35 / 39	16	1	3	20	35.7	37	14	25	76	34.4	48	37	49	135	34.2
30 / 34	4	0	1	5	31.2	30	6	15	51	30.2	48	23	35	106	29.9
25 / 29	1		0	1	26.3	16	2	4	22	25.8	35	11	17	63	25.2
20 / 24	0			0	23.0	6	0	1	8	21.2	22	5	9	37	20.5
15 / 19						1		0	1	16.7	10	4	5	18	15.6
10 / 14						0		0	1	11.2	4	1	2	8	11.1
5 / 9						0			0	8.0	2	1	1	4	5.7
0 / 4											1	0	1	2	0.8
-5 / -1											0			0	-3.2
-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.

FORT SMITH AR

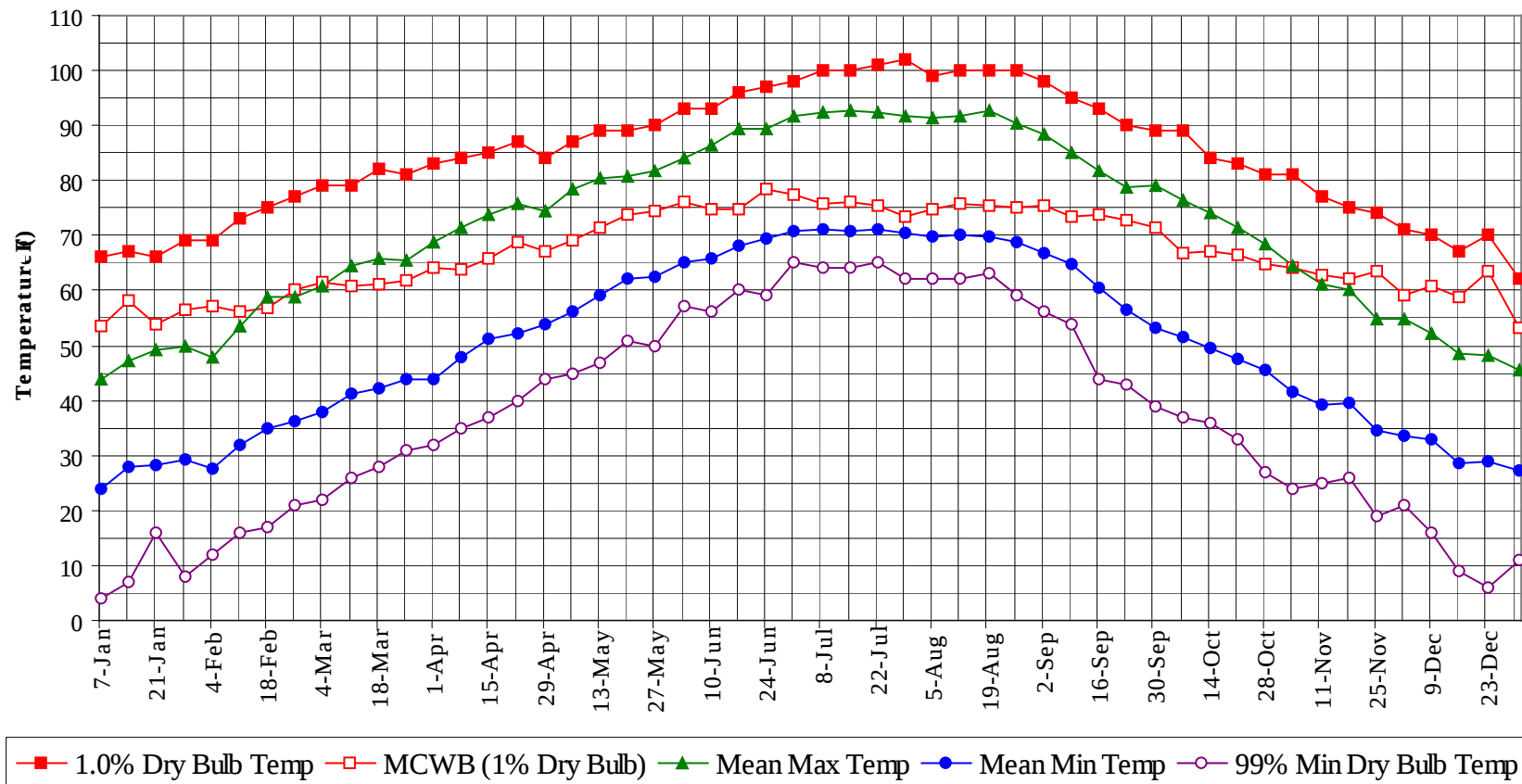
WMO No. 723440

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**Period of Record = 1973 to 1996**

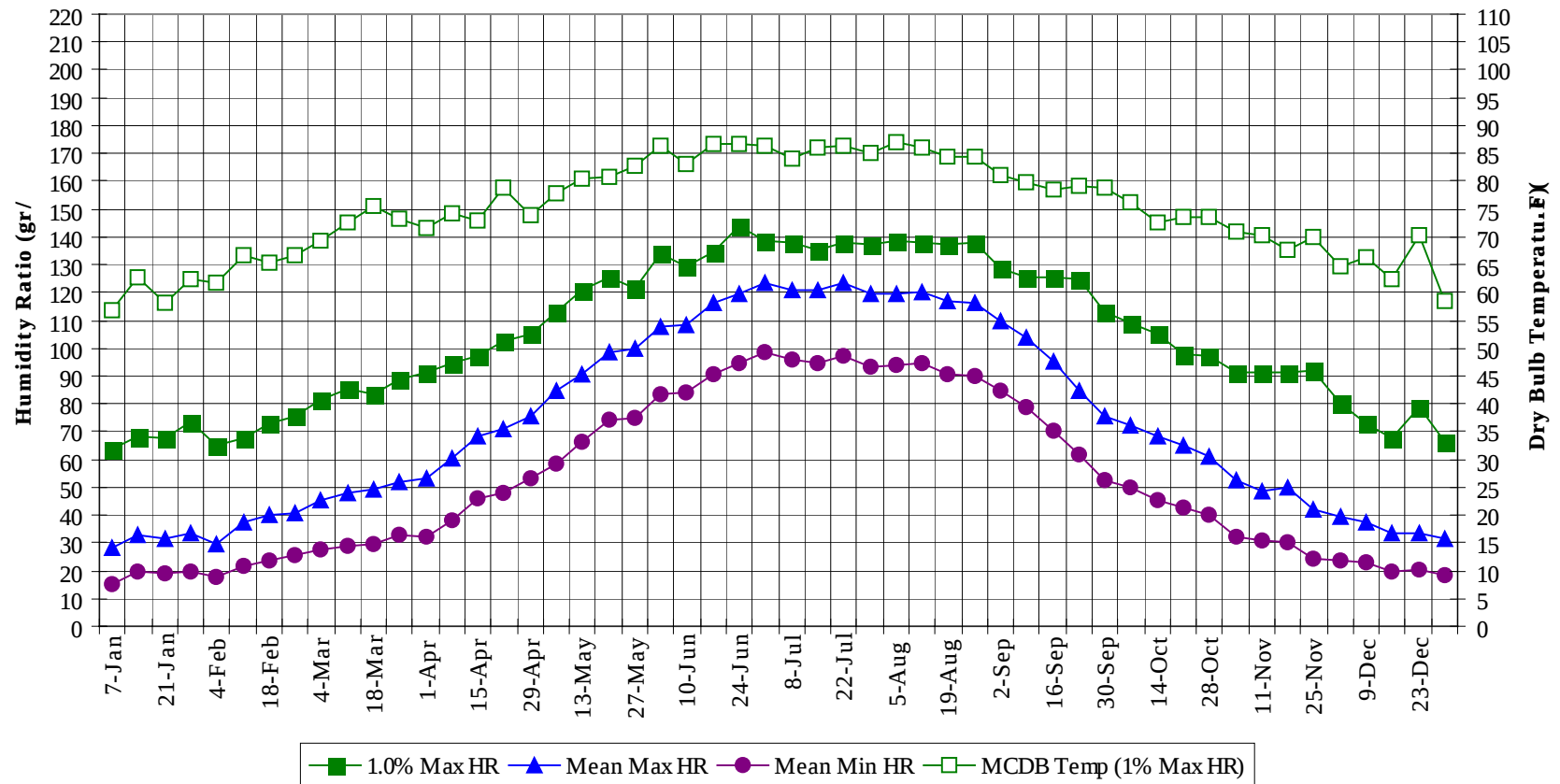
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		1	0	1	75.0
100 / 104		16	5	21	75.5
95 / 99		76	25	101	75.9
90 / 94	0	196	72	267	75.3
85 / 89	4	271	130	405	73.5
80 / 84	44	311	232	586	70.9
75 / 79	218	299	333	850	69.0
70 / 74	404	260	308	972	66.3
65 / 69	321	231	270	821	61.4
60 / 64	276	218	253	747	56.5
55 / 59	213	182	219	614	51.8
50 / 54	238	190	219	647	47.2
45 / 49	241	176	215	633	43.0
40 / 44	231	161	202	595	38.6
35 / 39	231	132	179	542	34.2
30 / 34	211	95	136	441	29.8
25 / 29	143	45	69	257	25.1
20 / 24	84	26	37	146	20.4
15 / 19	36	11	17	64	15.7
10 / 14	18	5	7	30	10.9
5 / 9	7	2	3	12	6.0
0 / 4	3	1	1	5	1.4
-5 / -1	1	0	0	1	-2.8
-10 / -6	0			0	-6.8

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.

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



FORT SMITH**AR****WMO No. 723440****Long Term Dry Bulb Temperature and Humidity Summary**

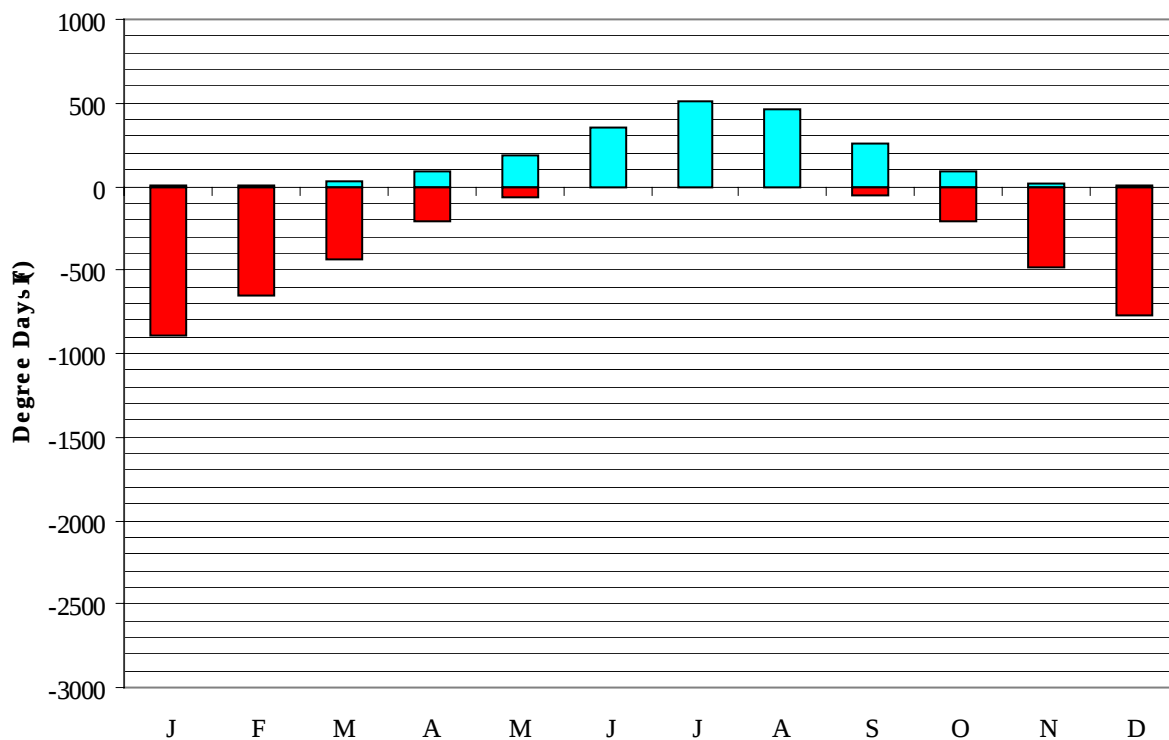
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	66.0	53.5	44.0	24.1	4.0	63.7	56.8	28.1	15.4
14-Jan	67.0	58.2	47.0	27.9	7.0	68.6	62.7	32.8	19.4
21-Jan	66.0	53.9	49.3	28.3	16.0	67.9	58.3	31.5	18.8
28-Jan	69.0	56.5	49.9	29.1	8.0	73.5	62.4	33.6	19.7
4-Feb	69.0	57.1	47.8	27.7	12.0	65.1	61.6	29.5	17.7
11-Feb	73.0	56.2	53.6	31.8	16.0	67.9	66.5	37.4	21.6
18-Feb	75.0	56.9	58.9	34.9	17.0	72.8	65.3	40.0	23.7
25-Feb	77.0	60.3	58.8	36.3	21.0	75.6	66.8	40.9	25.8
4-Mar	79.0	61.5	61.0	37.8	22.0	81.2	69.3	45.1	27.7
11-Mar	79.0	60.8	64.5	41.1	26.0	85.4	72.7	47.8	28.8
18-Mar	82.0	61.1	65.6	42.3	28.0	83.3	75.5	49.6	29.4
25-Mar	81.0	61.7	65.4	44.0	31.0	88.9	73.1	52.1	32.7
1-Apr	83.0	64.2	68.9	44.0	32.0	91.0	71.5	53.3	32.2
8-Apr	84.0	63.9	71.5	47.9	35.0	94.5	74.3	60.2	37.9
15-Apr	85.0	65.7	73.7	51.1	37.0	97.3	73.0	68.4	46.0
22-Apr	87.0	68.7	75.7	52.1	40.0	102.2	78.9	71.0	48.0
29-Apr	84.0	67.3	74.4	54.0	44.0	105.0	73.8	75.8	53.3
6-May	87.0	69.1	78.3	56.1	45.0	112.7	77.9	84.5	58.4
13-May	89.0	71.4	80.4	59.2	47.0	121.1	80.6	90.7	66.5
20-May	89.0	73.7	80.9	62.1	51.0	125.3	80.6	98.7	74.4
27-May	90.0	74.6	81.8	62.6	50.0	121.8	82.8	99.8	74.6
3-Jun	93.0	76.2	84.2	65.1	57.0	133.7	86.3	107.9	83.1
10-Jun	93.0	74.9	86.4	65.8	56.0	129.5	83.0	108.1	84.3
17-Jun	96.0	74.9	89.2	68.2	60.0	134.4	86.6	116.5	90.9
24-Jun	97.0	78.3	89.4	69.3	59.0	143.5	86.9	119.8	94.8
1-Jul	98.0	77.3	91.7	70.9	65.0	138.6	86.4	123.6	98.5
8-Jul	100.0	75.8	92.4	71.1	64.0	137.9	84.2	121.0	96.0
15-Jul	100.0	76.0	92.7	70.8	64.0	135.1	86.2	121.1	94.9
22-Jul	101.0	75.5	92.4	71.2	65.0	137.9	86.5	123.4	97.2
29-Jul	102.0	73.6	91.6	70.5	62.0	137.2	84.9	119.5	93.1
5-Aug	99.0	74.7	91.3	70.0	62.0	138.6	87.1	119.3	94.0
12-Aug	100.0	75.6	91.6	70.2	62.0	137.9	86.2	120.0	94.8
19-Aug	100.0	75.4	92.6	69.7	63.0	137.2	84.3	116.6	90.8
26-Aug	100.0	75.3	90.4	68.9	59.0	137.9	84.5	116.0	89.7
2-Sep	98.0	75.5	88.4	66.9	56.0	128.8	81.0	109.6	84.5
9-Sep	95.0	73.5	85.2	64.7	54.0	125.3	79.7	103.9	79.0
16-Sep	93.0	73.9	81.7	60.3	44.0	125.3	78.5	95.6	70.6
23-Sep	90.0	72.7	78.9	56.6	43.0	124.6	79.0	84.5	61.5
30-Sep	89.0	71.6	79.0	53.3	39.0	112.7	78.9	75.8	52.6
7-Oct	89.0	66.9	76.5	51.5	37.0	109.2	76.1	72.0	50.0
14-Oct	84.0	67.1	74.0	49.6	36.0	105.0	72.6	68.2	45.2
21-Oct	83.0	66.6	71.6	47.5	33.0	98.0	73.6	64.8	42.9
28-Oct	81.0	64.9	68.5	45.6	27.0	97.3	73.5	61.0	40.4
4-Nov	81.0	64.1	64.6	41.7	24.0	91.0	71.1	52.8	32.4
11-Nov	77.0	62.9	61.3	39.2	25.0	91.0	70.4	48.7	31.0
18-Nov	75.0	62.1	60.2	39.4	26.0	91.0	67.7	50.1	30.1
25-Nov	74.0	63.4	54.9	34.5	19.0	91.7	69.9	41.7	24.3
2-Dec	71.0	59.2	54.8	33.5	21.0	79.8	64.6	39.7	23.8
9-Dec	70.0	60.9	52.3	32.9	16.0	72.8	66.5	37.7	22.9
16-Dec	67.0	58.8	48.5	28.6	9.0	67.9	62.5	33.3	19.7
23-Dec	70.0	63.6	48.3	29.0	6.0	79.1	70.2	33.5	20.1
31-Dec	62.0	53.2	45.6	27.1	11.0	66.5	58.4	31.3	18.2

FORT SMITH

AR

WMO No. 723440

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



Mean Cooling Degree Days Mean Heating Degree Days

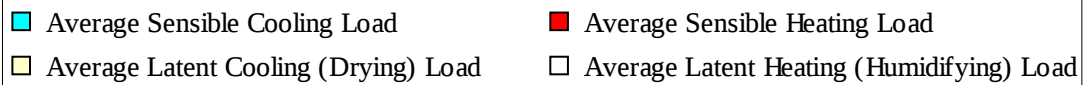
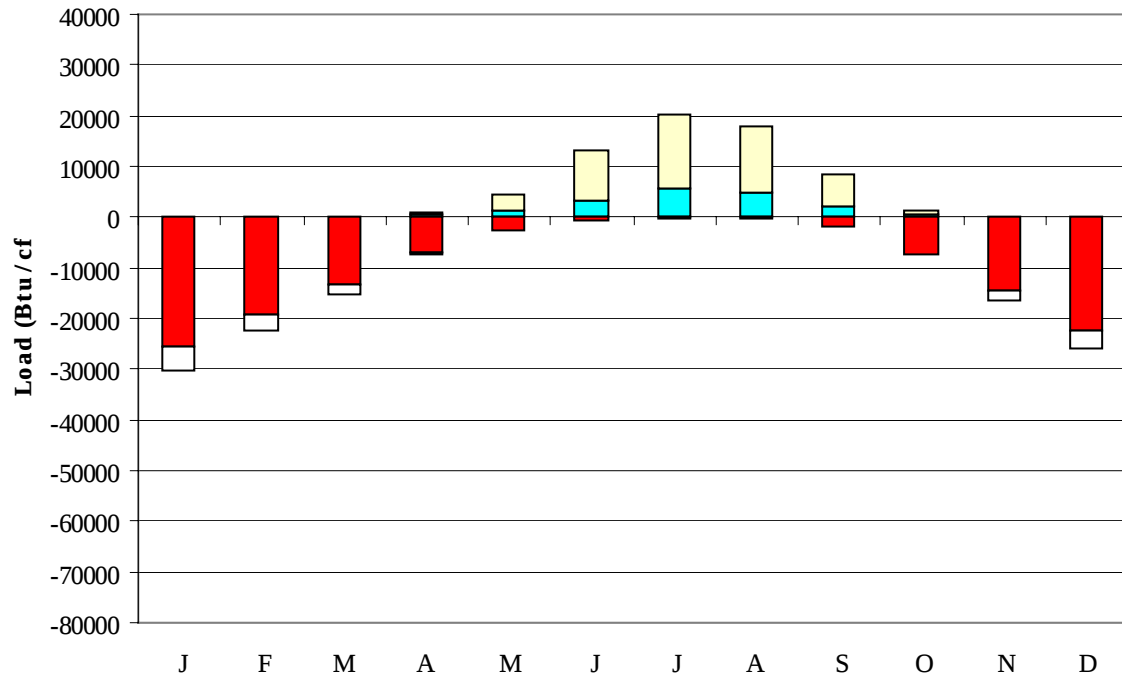
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	1	893
FEB	8	657
MAR	34	440
APR	87	211
MAY	186	70
JUN	357	9
JUL	504	1
AUG	461	3
SEP	261	51
OCT	93	214
NOV	21	484
DEC	4	776
ANN	2016	3809

FORT SMITH

AR

WMO No. 723440

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	0	-25538	1	-4744
FEB	9	-19136	4	-3345
MAR	115	-13465	53	-1677
APR	438	-7082	487	-416
MAY	1187	-2792	3339	-15
JUN	3378	-499	9881	0
JUL	5797	-77	14563	0
AUG	5055	-193	12865	0
SEP	2281	-1998	6191	-10
OCT	531	-7196	924	-249
NOV	53	-14646	146	-1604
DEC	1	-22455	18	-3613
ANN	18845	-115077	48472	-15673

Average Annual Solar Radiation – Nearest Available Site

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

City: FORT SMITH
 State: AR
 WBAN No: 13964
 Lat(N): 35.33
 Long(W): 94.37
 Elev(ft): 463

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.402
 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 Annual Solar Heat and Illumination – Nearest Available Site

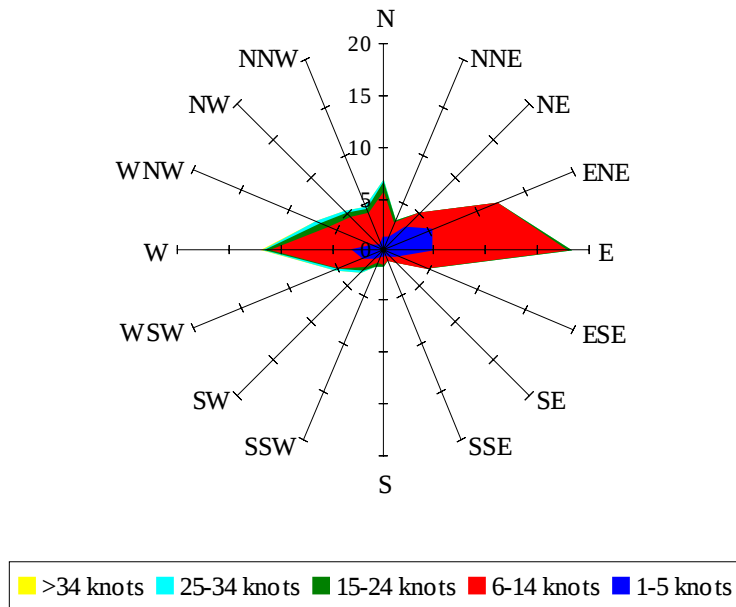
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	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

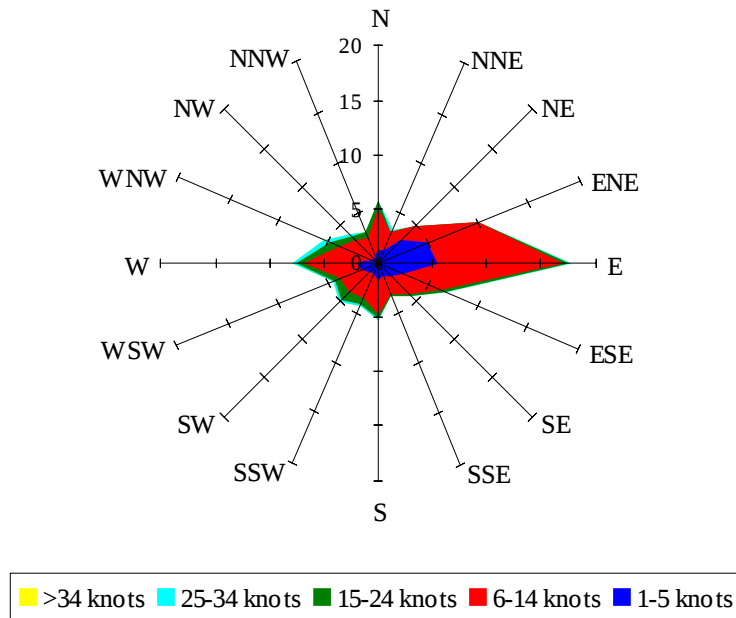
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	24	66	89	84	54	16	47	56	40	7
	M.Cloudy	14	41	57	58	37	9	28	34	23	5
NORTH	M.Clear	8	14	16	16	13	6	10	12	9	3
	M.Cloudy	6	15	18	18	14	4	11	13	9	2
EAST	M.Clear	60	74	35	16	13	47	46	12	9	3
	M.Cloudy	19	36	26	18	14	12	20	13	9	2
SOUTH	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 **Labels of Percent Frequency on North Axis**



Percent Calm = 8.59

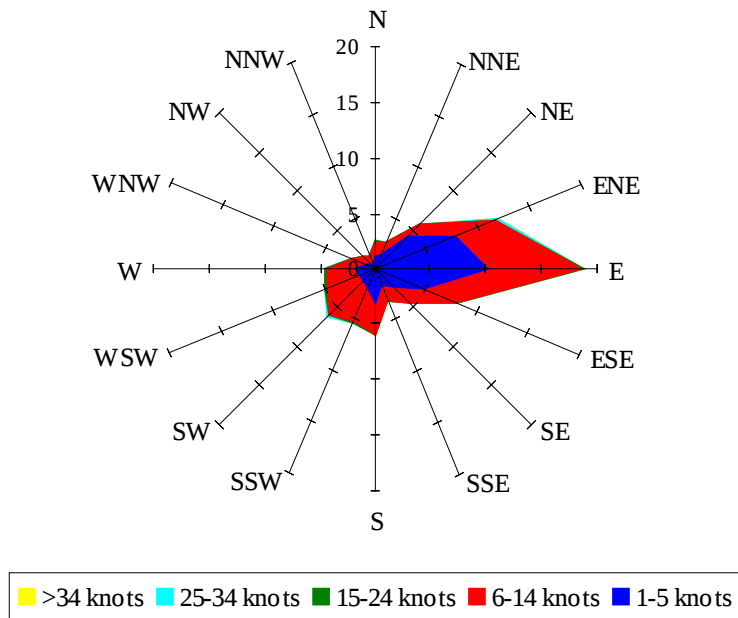
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 7.15

Wind Summary - June, July, and August

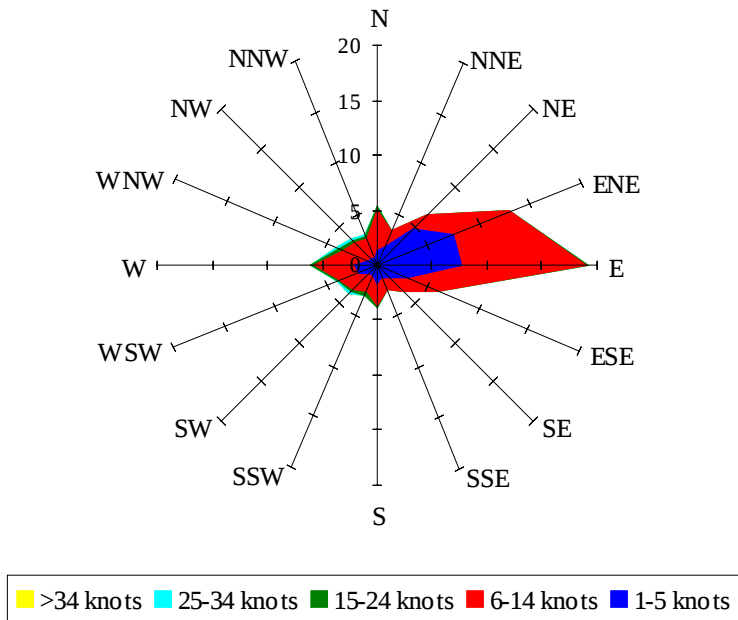
Labels of Percent Frequency on North Axis



Percent Calm = 11.73

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 10.45