

FORT SMITH CN

Latitude = 60.02 N

Longitude = 111.90 W

Period of Record = 1973 to 1996

WMO No. 719340

Elevation = 666 feet

Average Pressure = 29.19 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	88	66	61	8.4	S
0.4% Occurrence	82	62	55	8.6	S
1.0% Occurrence	79	61	54	8.1	S
2.0% Occurrence	75	60	53	7.5	S
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	-29	-29	1	4.2	WNW
99.0% Occurrence	-36	-35	1	2.9	WNW
99.6% Occurrence	-40	-40	1	2.0	SSE
Median of Extreme Lows	-46	.	.	0.9	WNW
	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	69	83	84	6.7	S
0.4% Occurrence	65	77	73	6.9	S
1.0% Occurrence	63	74	69	6.8	S
2.0% Occurrence	61	71	64	6.6	S
	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	94	76	0.61	6.8	S
0.4% Occurrence	82	69	0.54	5.0	S
1.0% Occurrence	76	68	0.50	5.3	S
2.0% Occurrence	71	67	0.47	5.4	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		0	75	1	18

Other Site Data

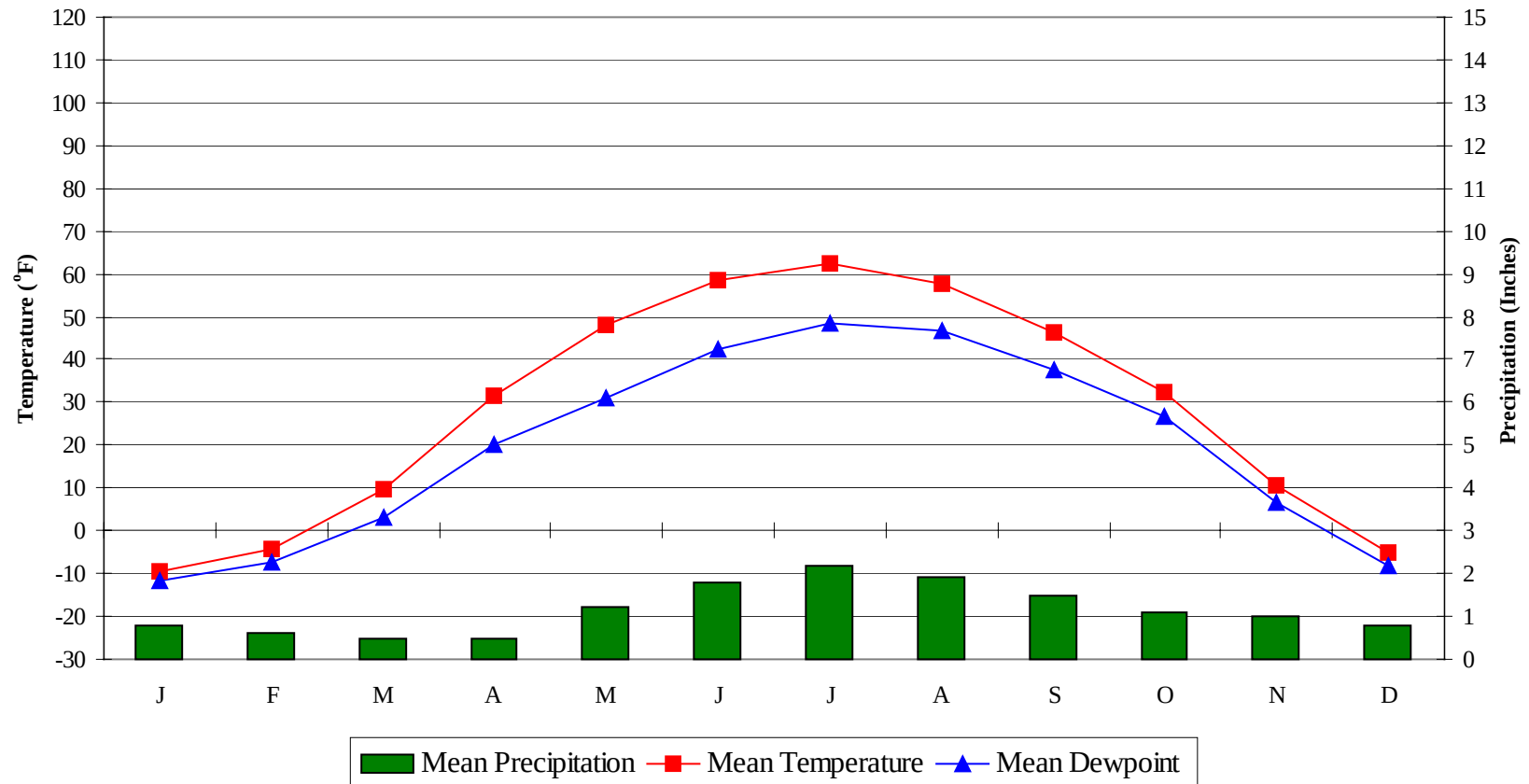
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
2	N/A	N/A	0.0 + 0.1
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
30.8	N/A	N/A	52

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

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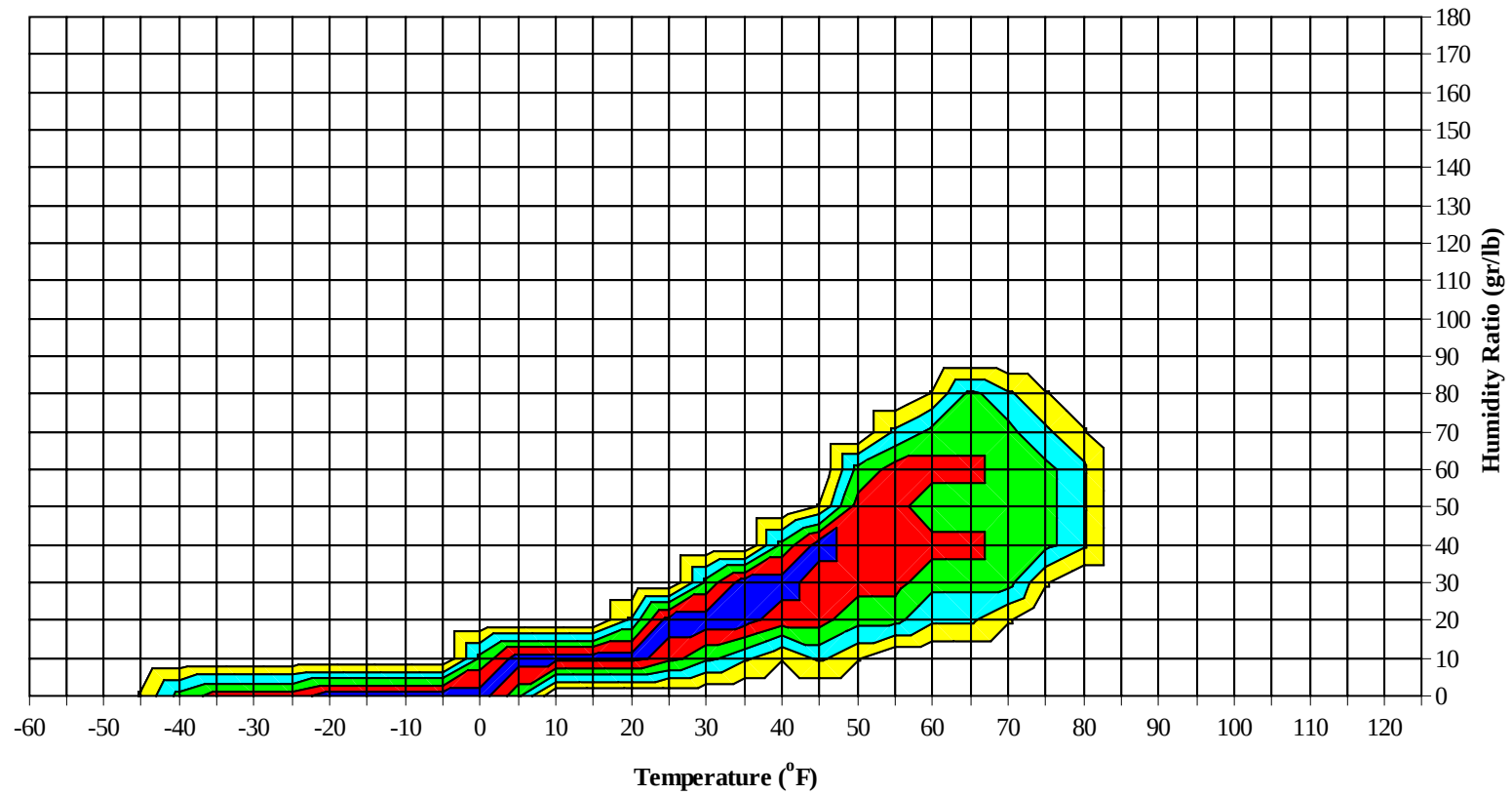
Average Annual Climate



FORT SMITH CN

WMO No. 719340

Long Term Psychrometric Summary

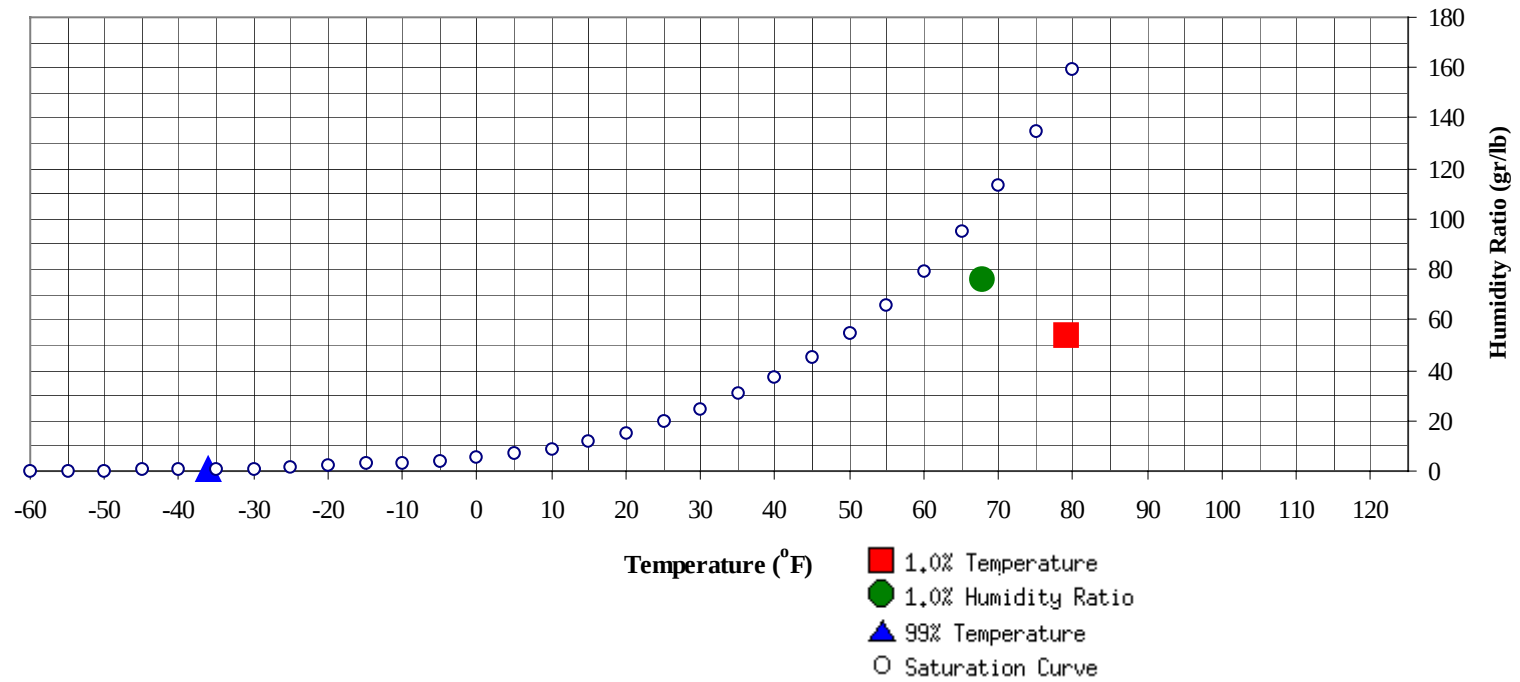


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

FORT SMITH CN

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Psychrometric Summary of Peak Design Values



99% Dry Bulb	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
	-36	0.7	-8.5		76.3	67.9	62.2	59	28.2

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	79	53.9	61	27.4

FORT SMITH CN

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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		
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64															
55 / 59											0	0	0	0	41.0
50 / 54						0			0	40.5	0	2	1	3	39.2
45 / 49	0	0		0	37.3	1	0		1	37.0	0	6	3	9	36.8
40 / 44	0	0		0	35.4		1	0	1	35.7	1	8	5	14	34.5
35 / 39	1	1	0	2	33.9	1	2	1	4	33.0	2	13	11	26	32.2
30 / 34	1	0	2	3	29.8	2	3	3	8	29.5	9	16	18	43	29.0
25 / 29	1	3	4	8	25.3	4	7	6	17	24.9	15	25	25	65	24.5
20 / 24	3	3	3	9	21.1	4	9	8	21	20.9	13	19	18	50	20.4
15 / 19	8	10	7	25	16.3	13	18	18	49	16.5	26	29	29	84	16.1
10 / 14	13	15	15	43	11.4	17	23	19	59	11.3	29	32	28	89	11.1
5 / 9	20	22	18	60	6.0	19	22	22	63	6.0	24	32	26	82	6.0
0 / 4	32	31	30	93	0.9	26	25	25	76	1.0	27	24	26	77	0.8
-5 / -1	20	23	22	65	-3.4	18	19	18	55	-3.5	17	13	17	47	-3.5
-10 / -6	28	28	30	86	-7.8	22	24	25	71	-7.9	24	16	19	59	-7.7
-15 / -11	18	18	21	57	-12.2	14	18	20	52	-12.3	16	6	9	31	-12.3
-20 / -16	22	26	22	70	-16.9	20	20	20	60	-17.0	17	6	8	31	-17.0
-25 / -21	23	23	26	72	-22.1	18	15	15	48	-22.0	14	2	4	20	-21.8
-30 / -26	21	20	23	64	-27.2	16	10	12	38	-27.3	8	1	2	11	-27.0
-35 / -31	13	8	12	33	-31.8	10	4	7	21	-31.8	3	0	1	4	-31.6
-40 / -36	13	9	9	31	-35.1	11	4	4	19	-35.3	2	0	0	2	-35.4
-45 / -41	8	4	6	18	-40.0	7	1	1	9		1		0	1	
-50 / -46	4	1	2	7		1	0	0	1						
-55 / -51	1	0		1		0			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.

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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		
90 / 94								0	0	65.0		0	0	0	61.0
85 / 89		0		0	60.0		0	0	0	62.4		1	0	1	60.8
80 / 84		0		0	58.5		2	1	3	59.3		10	5	15	60.6
75 / 79		1	0	1	56.4		6	4	10	56.6	0	24	13	37	58.6
70 / 74		1	0	1	52.4	0	15	9	24	53.9	2	39	23	64	56.7
65 / 69		2	1	3	48.9	1	20	13	34	51.2	6	36	29	71	54.6
60 / 64	0	5	3	8	46.8	5	37	26	68	49.0	23	50	48	121	53.2
55 / 59	1	11	7	19	44.1	15	38	34	87	46.9	49	40	53	142	50.5
50 / 54	1	22	12	35	41.0	26	39	40	105	43.7	69	24	39	133	47.5
45 / 49	5	32	23	60	38.0	43	36	42	121	40.2	50	11	21	82	43.0
40 / 44	9	27	26	62	35.4	39	20	27	86	37.0	21	4	5	30	39.1
35 / 39	30	39	43	112	32.8	52	18	23	93	33.9	15	1	3	19	35.2
30 / 34	48	31	42	121	29.3	34	9	16	59	29.5	5		0	5	31.0
25 / 29	54	25	33	112	24.8	20	5	7	32	24.7	1		0	1	27.2
20 / 24	22	12	13	47	20.3	6	2	3	11	20.2					
15 / 19	21	13	14	48	16.2	5	1	1	7	16.5					
10 / 14	16	7	9	32	11.3	2		0	2	11.5					
5 / 9	11	6	7	24	6.0	0			0	8.0					
0 / 4	8	2	3	13	0.9										
-5 / -1	5	1	2	8	-3.5										
-10 / -6	4	0	1	5	-7.5										
-15 / -11	1	0	1	2	-12.5										
-20 / -16	3	0	0	3	-16.8										
-25 / -21	1		0	1	-21.9										
-30 / -26	0			0	-26.7										
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															

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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		
90 / 94		2	1	3	67.8		1	0	1	65.6					
85 / 89		4	2	6	65.5		4	2	6	66.0					
80 / 84		14	7	21	63.3		12	6	18	63.8		0	0	0	60.5
75 / 79	1	36	21	58	60.8	0	21	12	33	61.9		2	1	3	59.8
70 / 74	5	53	37	96	58.6	2	35	22	59	59.3		7	3	10	57.3
65 / 69	11	43	33	87	56.9	6	31	24	61	57.7		9	4	13	54.7
60 / 64	43	50	59	152	55.5	24	46	41	111	55.6	1	26	13	40	52.3
55 / 59	76	30	51	157	52.9	48	48	55	151	52.2	7	40	28	75	49.9
50 / 54	68	12	28	108	49.2	69	33	49	151	48.8	25	49	45	119	46.9
45 / 49	34	2	7	43	44.7	53	13	23	89	44.4	55	53	60	167	43.5
40 / 44	8		1	9	40.4	23	2	9	34	40.2	48	26	35	109	39.4
35 / 39	3		0	3	37.0	18	0	5	23	36.5	51	19	33	103	35.4
30 / 34	0			0	31.8	6		1	7	31.5	36	6	14	56	30.8
25 / 29						0			0	27.8	14	3	6	23	26.0
20 / 24											3	0	0	3	22.0
15 / 19											1		0	1	17.1
10 / 14											0		0	0	13.3
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															

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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		
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74		0	0	0	55.4										
65 / 69		1	0	1	53.2										
60 / 64		2	1	3	51.5										
55 / 59	0	5	2	7	47.8										
50 / 54	1	14	5	20	44.3		0		0	41.5					
45 / 49	8	22	17	47	41.3	0	1		1	40.3					
40 / 44	15	27	25	67	38.5	0	1	1	2	36.2	0	0		0	35.9
35 / 39	41	53	50	144	35.1	2	4	3	9	33.9	0	1	1	2	33.0
30 / 34	73	57	65	195	30.8	10	14	12	36	30.3	2	1	2	5	30.3
25 / 29	53	33	42	128	25.8	23	28	27	78	25.4	4	6	5	15	25.3
20 / 24	25	15	19	59	21.3	25	27	29	81	21.4	6	8	8	22	21.3
15 / 19	17	10	11	38	16.8	39	38	32	110	16.6	17	17	17	51	16.5
10 / 14	7	5	6	18	11.5	31	31	32	95	11.4	23	25	21	69	11.4
5 / 9	3	2	4	9	6.2	29	26	30	85	6.1	27	26	30	83	6.0
0 / 4	2	1	1	4	1.3	24	23	23	70	1.0	27	29	27	83	1.0
-5 / -1	1	0	1	2	-3.5	14	14	14	42	-3.4	20	19	18	57	-3.4
-10 / -6	1	0	0	1	-7.3	15	14	17	46	-7.8	22	24	21	67	-7.8
-15 / -11	0	0	0	0	-11.8	9	7	9	25	-12.3	15	16	19	50	-12.3
-20 / -16	0	0		0	-15.6	9	6	8	23	-16.9	21	22	21	64	-17.0
-25 / -21						6	3	4	13	-21.6	21	22	24	67	-21.9
-30 / -26						2	1	1	4	-26.8	16	17	17	50	-27.3
-35 / -31						1	0	0	1	-31.9	11	6	9	26	-31.9
-40 / -36						1	0	0	1	-35.0	11	6	7	24	-35.2
-45 / -41								0	0		4	2	3	9	
-50 / -46											1	0	0	1	
-55 / -51															

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FORT SMITH CN

WMO No. 719340

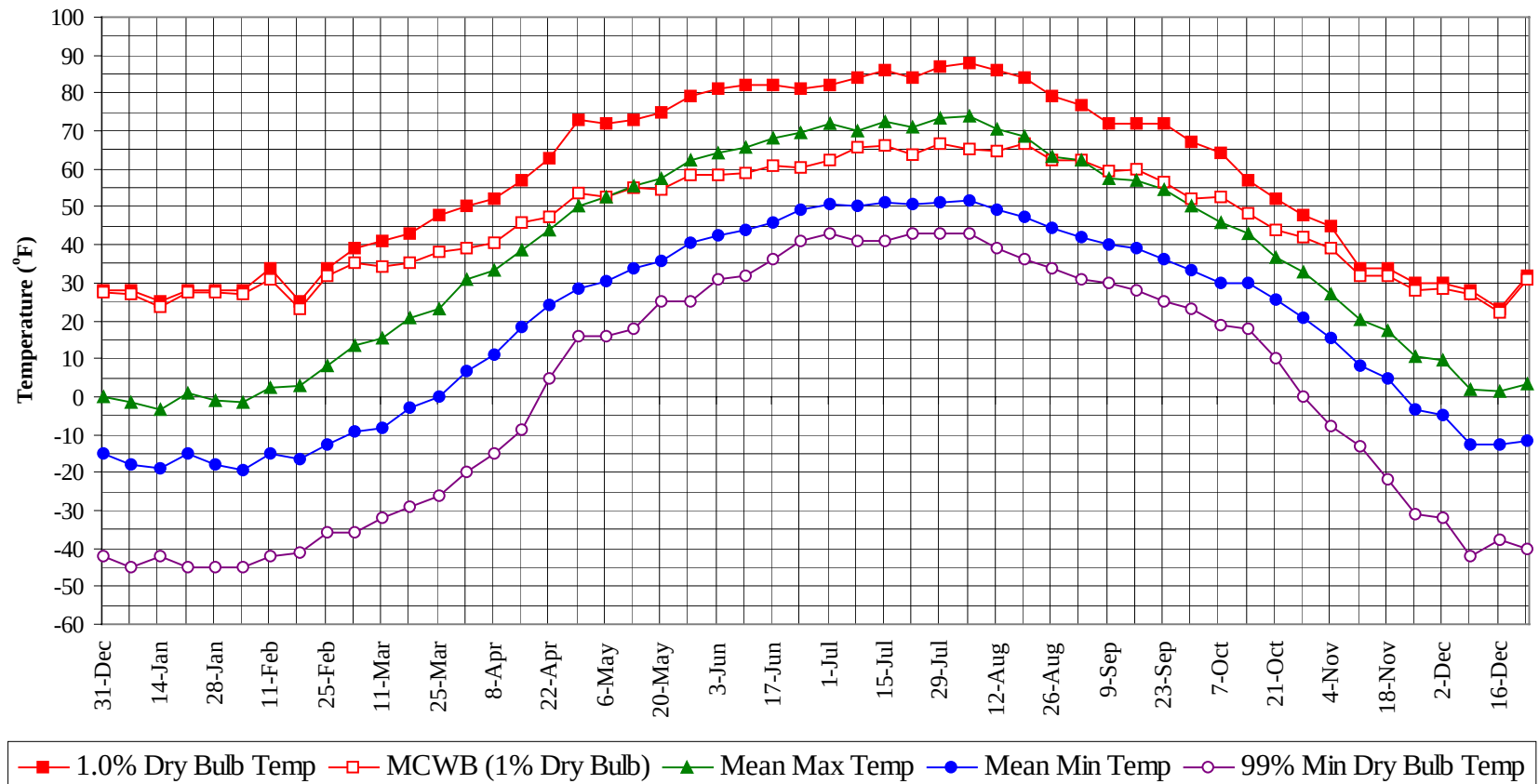
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

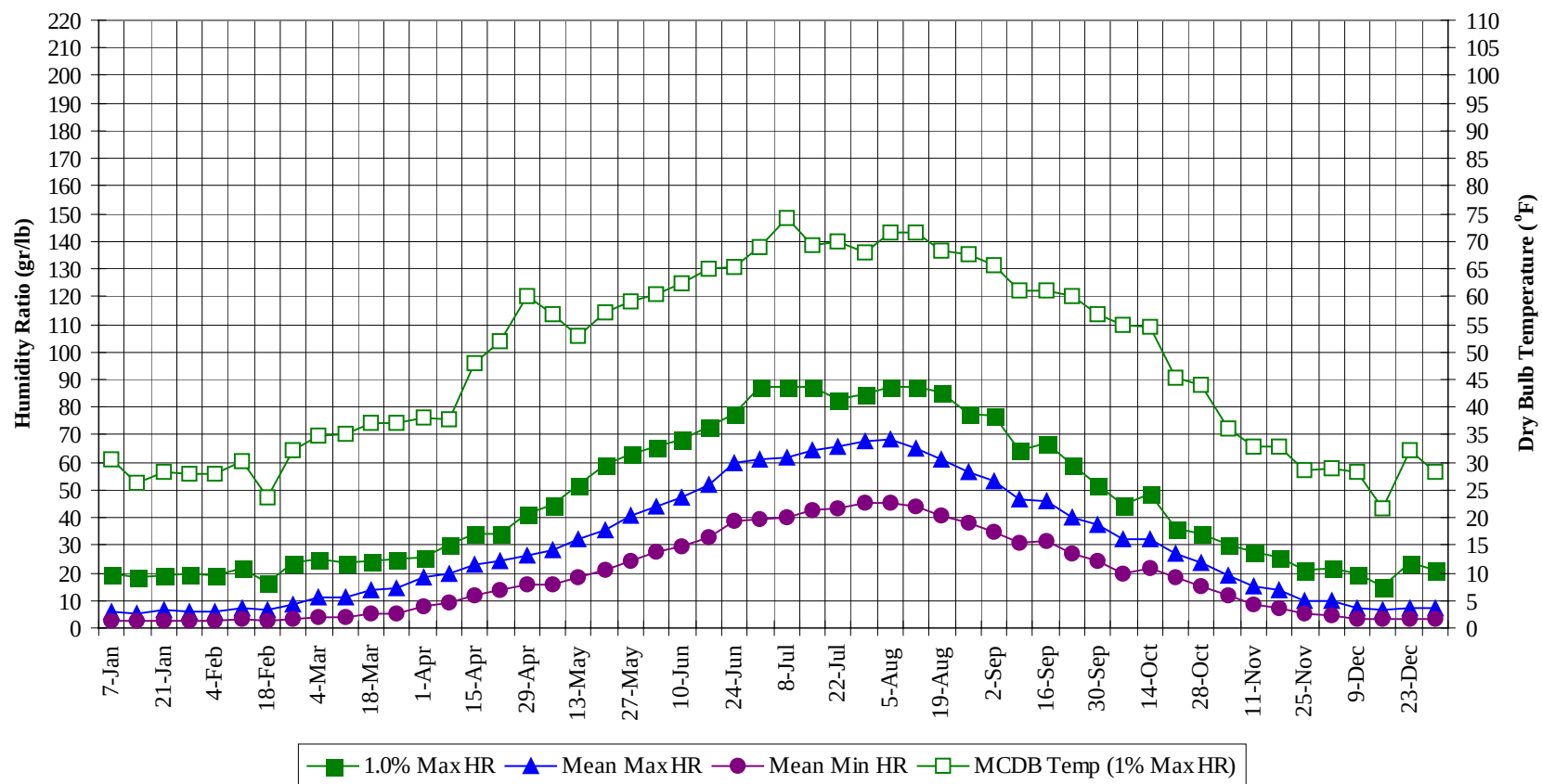
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
90 / 94		4	1	5	66.6
85 / 89		9	4	13	65.0
80 / 84		38	19	57	62.5
75 / 79	1	90	50	141	60.1
70 / 74	9	152	95	255	57.7
65 / 69	23	142	105	270	55.5
60 / 64	96	217	189	502	53.7
55 / 59	196	213	229	638	50.7
50 / 54	260	197	219	676	46.8
45 / 49	247	176	195	618	42.2
40 / 44	165	115	132	412	38.0
35 / 39	215	150	173	538	34.4
30 / 34	224	136	174	535	30.1
25 / 29	191	133	154	479	25.2
20 / 24	107	96	100	303	20.9
15 / 19	145	137	131	413	16.4
10 / 14	138	139	131	408	11.3
5 / 9	134	136	135	406	6.0
0 / 4	146	135	134	416	1.0
-5 / -1	96	88	92	276	-3.5
-10 / -6	116	107	113	336	-7.8
-15 / -11	74	66	78	218	-12.3
-20 / -16	92	80	80	252	-17.0
-25 / -21	83	65	72	220	-22.0
-30 / -26	63	49	55	167	-27.2
-35 / -31	37	19	29	85	-31.8
-40 / -36	37	19	21	77	-35.2
-45 / -41	20	7	10	37	-40.0
-50 / -46	6	1	2	9	
-55 / -51	1	0		1	

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Annual Summary of Temperatures

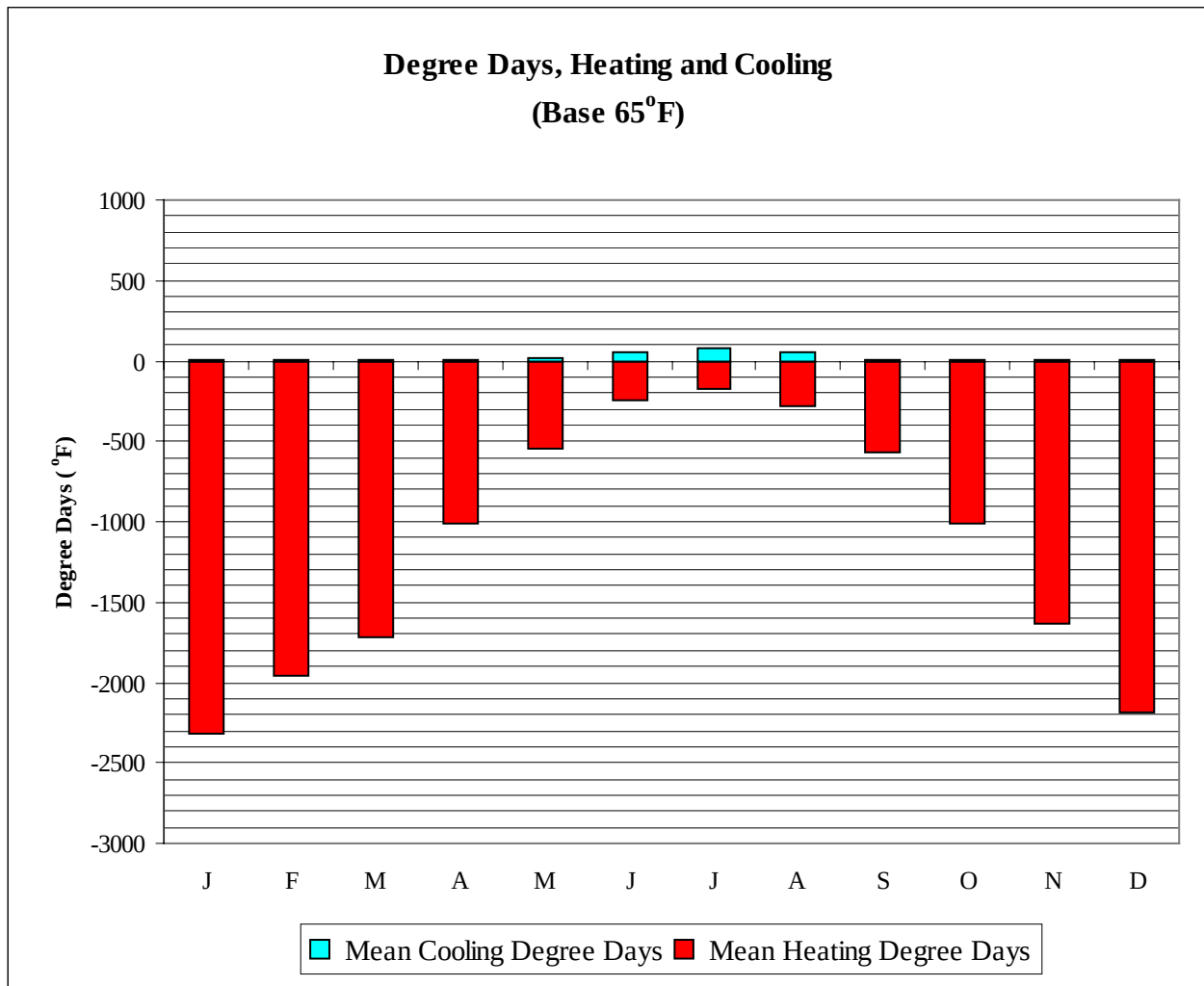


Long Term Humidity and Dry Bulb Temperature Summary



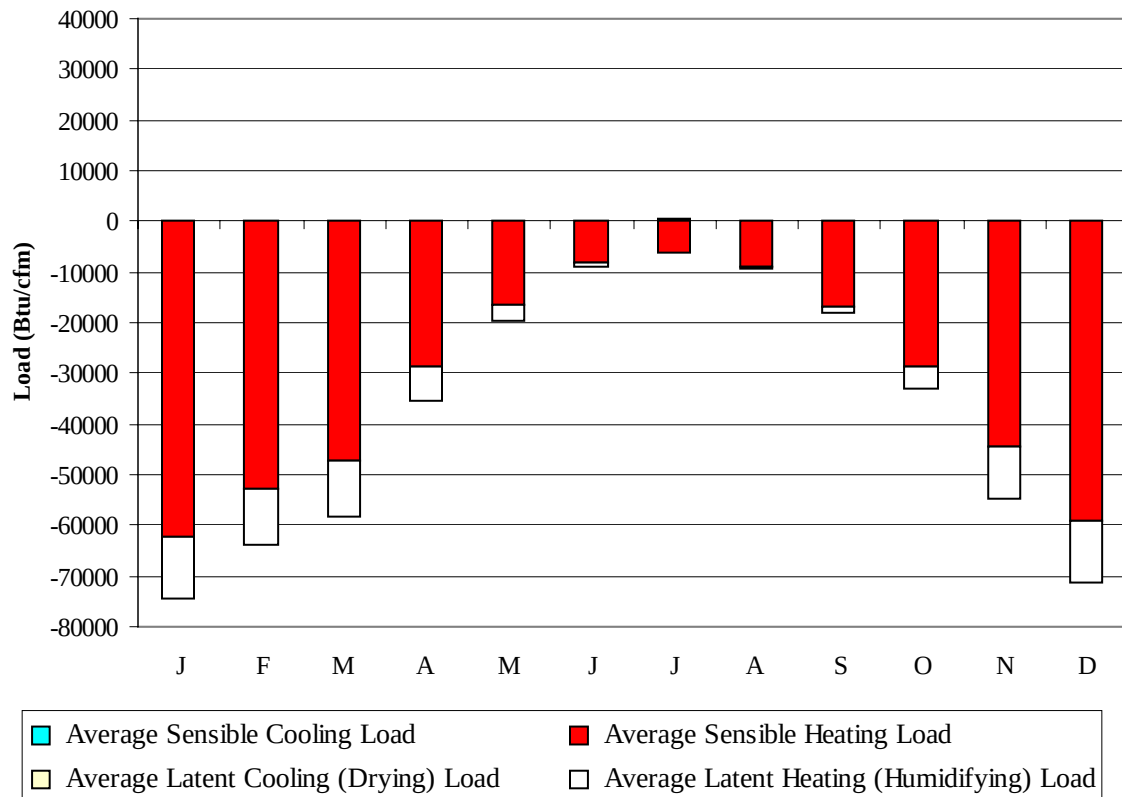
FORT SMITH CN**WMO No. 719340****Long Term Dry Bulb Temperature and Humidity Summary**

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	28.0	27.0	-1.7	-17.7	-45.0	19.6	30.5	5.8	2.3
14-Jan	25.0	23.7	-3.5	-19.1	-42.0	18.2	26.4	5.3	2.3
21-Jan	28.0	27.7	1.0	-15.0	-45.0	18.9	28.4	6.4	2.7
28-Jan	28.0	27.6	-0.8	-18.0	-45.0	19.6	27.8	5.9	2.4
4-Feb	28.0	27.2	-1.7	-19.4	-45.0	18.9	27.9	6.1	2.4
11-Feb	34.0	31.1	2.5	-14.8	-42.0	21.7	30.2	7.4	3.1
18-Feb	25.0	23.2	2.7	-16.5	-41.0	16.1	23.7	6.5	2.6
25-Feb	34.0	31.7	8.0	-12.4	-36.0	23.8	32.3	8.9	3.3
4-Mar	39.0	35.1	13.6	-9.0	-36.0	25.2	34.7	10.9	3.8
11-Mar	41.0	34.1	15.4	-8.5	-32.0	23.8	35.2	10.9	4.1
18-Mar	43.0	35.2	20.9	-2.9	-29.0	24.5	37.0	13.5	5.0
25-Mar	48.0	38.0	23.0	-0.2	-26.0	25.2	37.2	14.3	5.4
1-Apr	50.0	38.9	30.6	6.9	-20.0	25.9	38.2	18.1	7.6
8-Apr	52.0	40.5	33.2	11.1	-15.0	30.1	37.9	19.9	9.1
15-Apr	57.0	46.0	38.6	18.1	-9.0	34.3	47.9	22.7	11.8
22-Apr	63.0	47.4	44.1	24.1	5.0	34.3	51.9	24.6	13.5
29-Apr	73.0	53.8	50.1	28.4	16.0	41.3	59.9	26.4	15.7
6-May	72.0	52.8	52.8	30.6	16.0	44.8	56.7	28.4	15.9
13-May	73.0	54.9	55.4	33.7	18.0	51.8	53.0	32.3	18.4
20-May	75.0	54.6	57.5	35.8	25.0	58.8	57.1	35.6	20.9
27-May	79.0	58.3	62.1	40.7	25.0	63.0	59.1	40.9	24.5
3-Jun	81.0	58.3	64.2	42.6	31.0	65.8	60.3	44.0	27.4
10-Jun	82.0	59.0	65.5	43.9	32.0	68.6	62.3	47.5	29.5
17-Jun	82.0	60.9	68.3	46.0	36.0	72.8	65.1	51.8	32.5
24-Jun	81.0	60.5	69.5	49.2	41.0	77.7	65.4	59.4	38.7
1-Jul	82.0	62.5	72.0	50.5	43.0	87.5	69.0	60.9	39.6
8-Jul	84.0	65.8	70.3	50.4	41.0	87.5	74.1	61.5	39.9
15-Jul	86.0	66.2	72.5	51.1	41.0	87.5	69.4	64.6	42.6
22-Jul	84.0	63.7	71.2	50.9	43.0	82.6	69.9	65.6	43.3
29-Jul	87.0	66.5	73.3	51.3	43.0	84.7	67.9	67.8	45.4
5-Aug	88.0	65.3	73.9	51.8	43.0	87.5	71.7	68.3	45.6
12-Aug	86.0	64.9	70.7	49.5	39.0	87.5	71.7	65.3	44.0
19-Aug	84.0	66.7	68.4	47.1	36.0	85.4	68.3	61.3	40.9
26-Aug	79.0	62.4	63.4	44.6	34.0	77.7	67.5	56.3	38.4
2-Sep	77.0	62.2	62.3	42.2	31.0	77.0	65.7	53.3	34.9
9-Sep	72.0	59.3	57.5	39.9	30.0	64.4	61.1	46.8	31.1
16-Sep	72.0	59.8	57.2	39.2	28.0	67.2	61.0	45.8	31.2
23-Sep	72.0	56.6	54.7	36.2	25.0	58.8	59.9	40.1	26.8
30-Sep	67.0	52.0	50.1	33.5	23.0	51.8	57.0	37.2	24.4
7-Oct	64.0	52.8	45.7	29.8	19.0	44.8	54.9	32.0	20.0
14-Oct	57.0	48.3	43.1	29.7	18.0	48.3	54.6	32.3	21.5
21-Oct	52.0	43.8	36.9	25.5	10.0	36.4	45.2	27.1	18.2
28-Oct	48.0	41.8	32.7	20.9	0.0	34.3	44.1	23.6	15.2
4-Nov	45.0	39.1	26.9	15.2	-8.0	30.1	36.0	19.1	11.7
11-Nov	34.0	31.8	20.3	8.4	-13.0	27.3	32.9	14.9	8.5
18-Nov	34.0	31.8	17.5	4.7	-22.0	25.9	32.9	13.7	7.5
25-Nov	30.0	27.8	10.4	-3.3	-31.0	21.0	28.5	9.7	4.9
2-Dec	30.0	28.6	9.7	-5.0	-32.0	21.7	29.0	9.6	4.7
9-Dec	28.0	26.9	2.1	-12.8	-42.0	19.6	28.1	7.2	3.3
16-Dec	23.0	22.3	1.4	-12.8	-38.0	15.4	21.7	6.5	3.1
23-Dec	32.0	30.8	3.1	-11.9	-40.0	23.8	32.1	7.5	3.2
31-Dec	28.0	27.6	0.2	-15.1	-42.0	21.0	28.2	7.1	3.2



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	2315
FEB	0	1957
MAR	0	1723
APR	1	1010
MAY	16	545
JUN	51	250
JUL	83	169
AUG	55	277
SEP	5	565
OCT	0	1014
NOV	0	1633
DEC	0	2184
ANN	212	13642

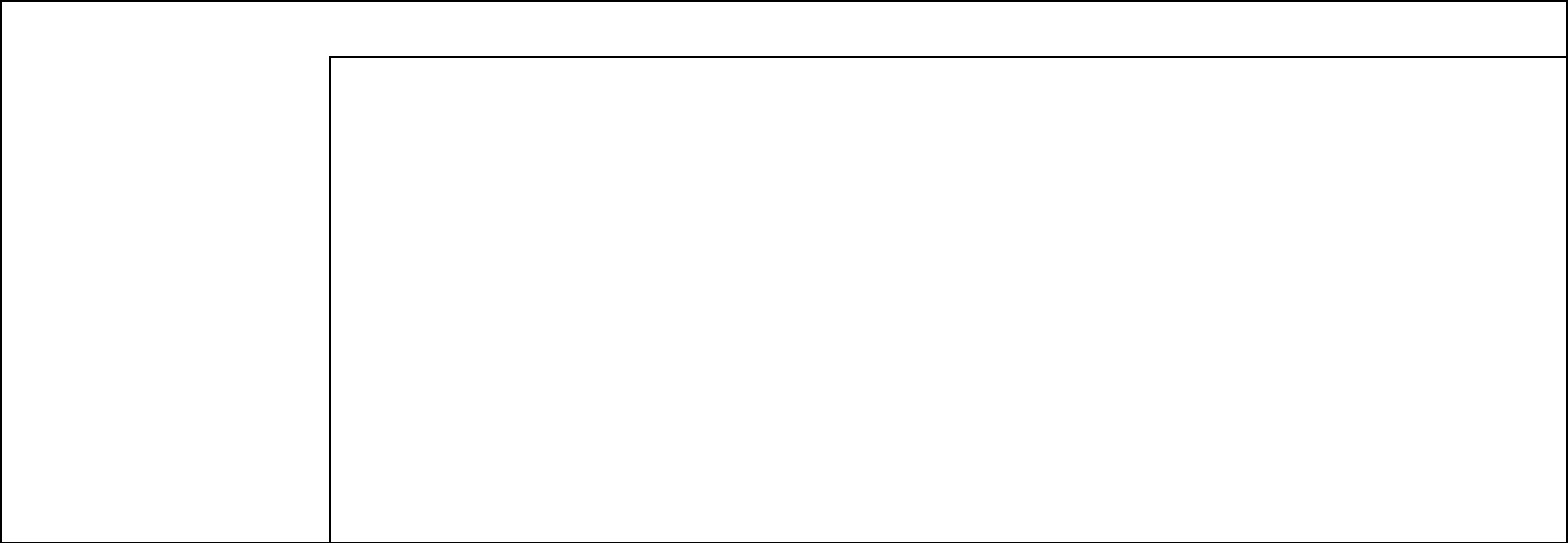
Average Ventilation and Infiltration Loads
(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)



	Average Sensible Cooling Load	Average Sensible Heating Load	Average Latent Cooling Load	Average Latent Heating Load
	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)
JAN	0	-62406	0	-12122
FEB	0	-52942	0	-10926
MAR	0	-47060	0	-11046
APR	4	-28503	0	-6719
MAY	43	-16356	0	-3253
JUN	191	-8304	10	-541
JUL	376	-6027	61	-43
AUG	278	-9094	40	-134
SEP	7	-16908	0	-1152
OCT	0	-28671	0	-4388
NOV	0	-44656	0	-9999
DEC	0	-59017	0	-12230
ANN	899	-379944	111	-72553

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

No Solar Radiation
Data Available

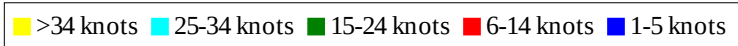
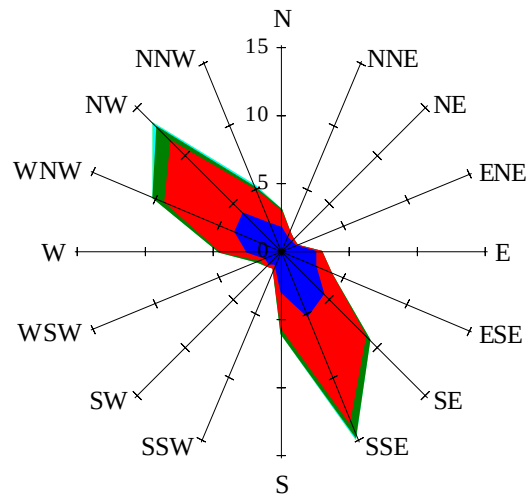


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

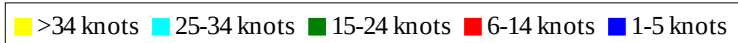
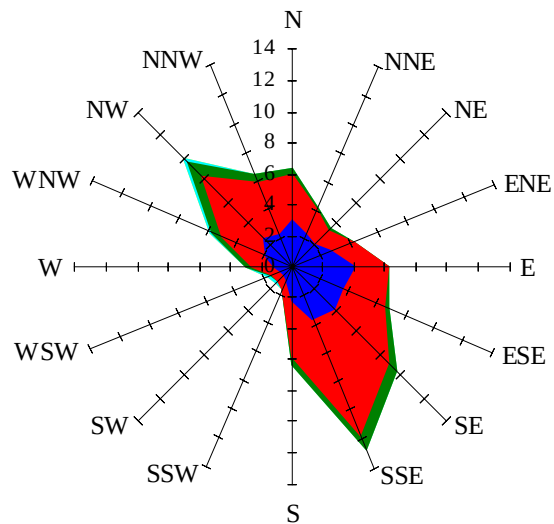
Labels of Percent Frequency on North Axis



Percent Calm = 18.53

Wind Summary - March, April, and May

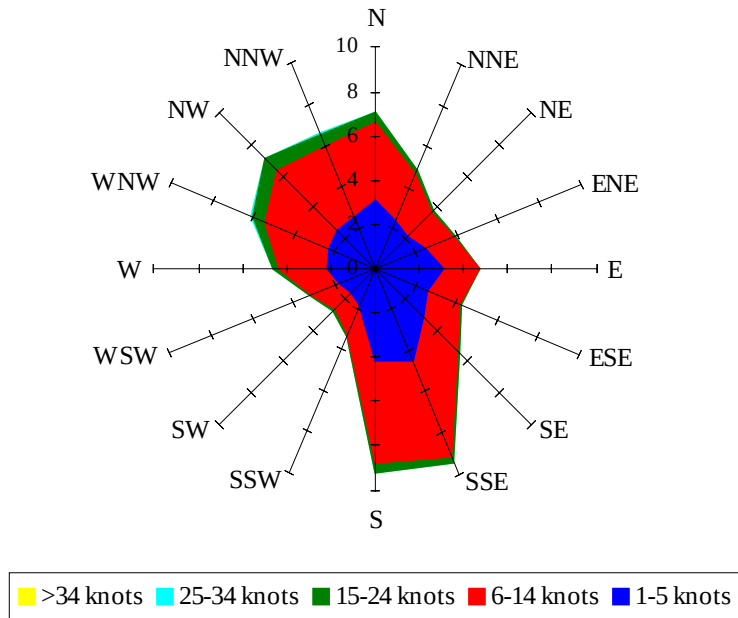
Labels of Percent Frequency on North Axis



Percent Calm = 11.45

Wind Summary - June, July, and August

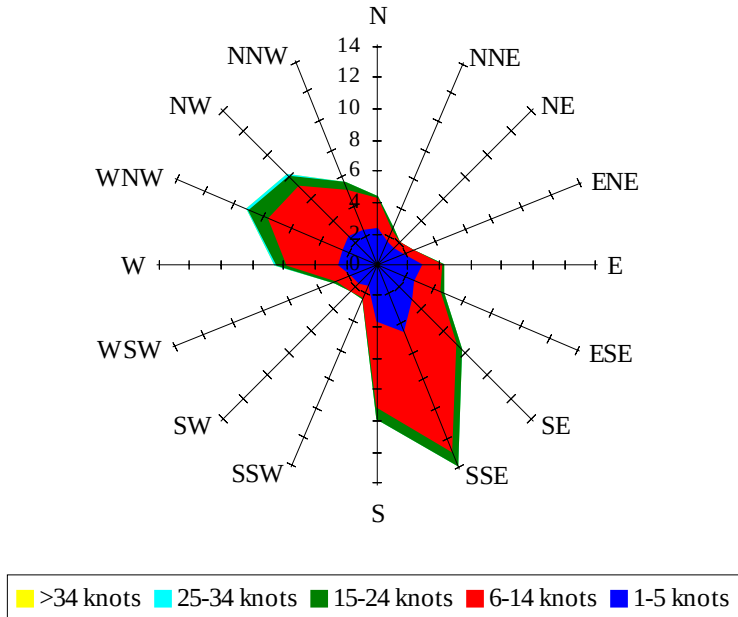
Labels of Percent Frequency on North Axis



Percent Calm = 14.14

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 12.30