

FORT NELSON CN

Latitude = 58.83 N

Longitude = 122.50 W

Period of Record = 1973 to 1996

WMO No. 719450

Elevation = 1253 feet

Average Pressure = 28.55 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	87	65	61	4.7	S
0.4% Occurrence	82	62	57	5.5	ESE
1.0% Occurrence	79	61	56	5.5	SE
2.0% Occurrence	75	59	53	5.6	SE
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	-23	-23	1	1.9	SSW
99.0% Occurrence	-31	-31	1	1.3	SSW
99.6% Occurrence	-36	-36	1	0.8	SSW
Median of Extreme Lows	-40	-40	1	0.8	SSW
	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	82	87	3.9	SE
0.4% Occurrence	65	77	75	4.1	ESE
1.0% Occurrence	63	75	69	4.4	SE
2.0% Occurrence	61	72	65	4.7	N
	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	91	70	0.58	3.7	N
0.4% Occurrence	83	70	0.54	3.3	N
1.0% Occurrence	76	66	0.49	4.8	NNW
2.0% Occurrence	69	65	0.44	4.0	NNW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		1	65	0	14

Other Site Data

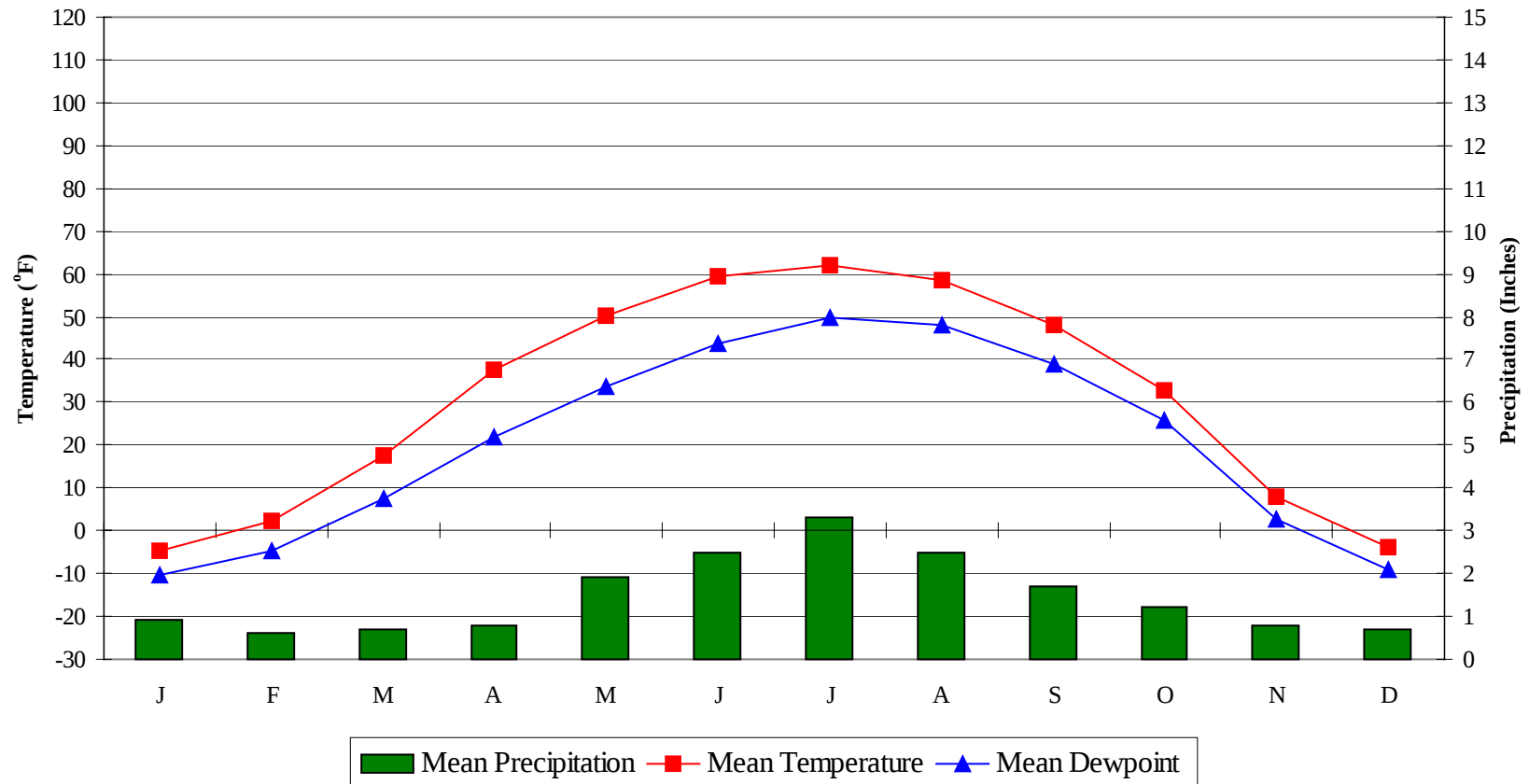
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
3	N/A	N/A	0.0 + 0.1
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
33.2	N/A	N/A	64

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

FORT NELSON CN

WMO No. 719450

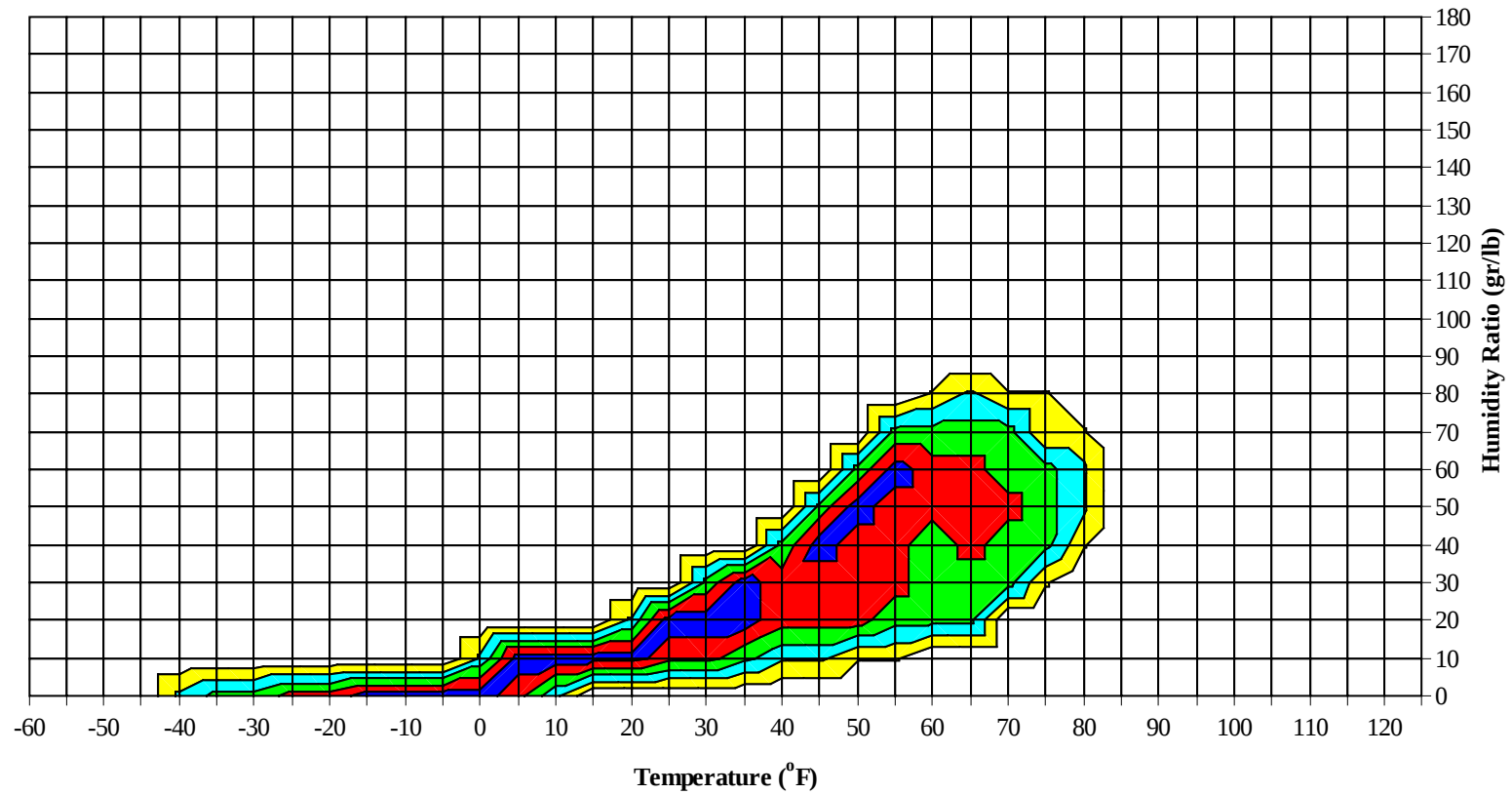
Average Annual Climate



FORT NELSON CN

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Long Term Psychrometric Summary

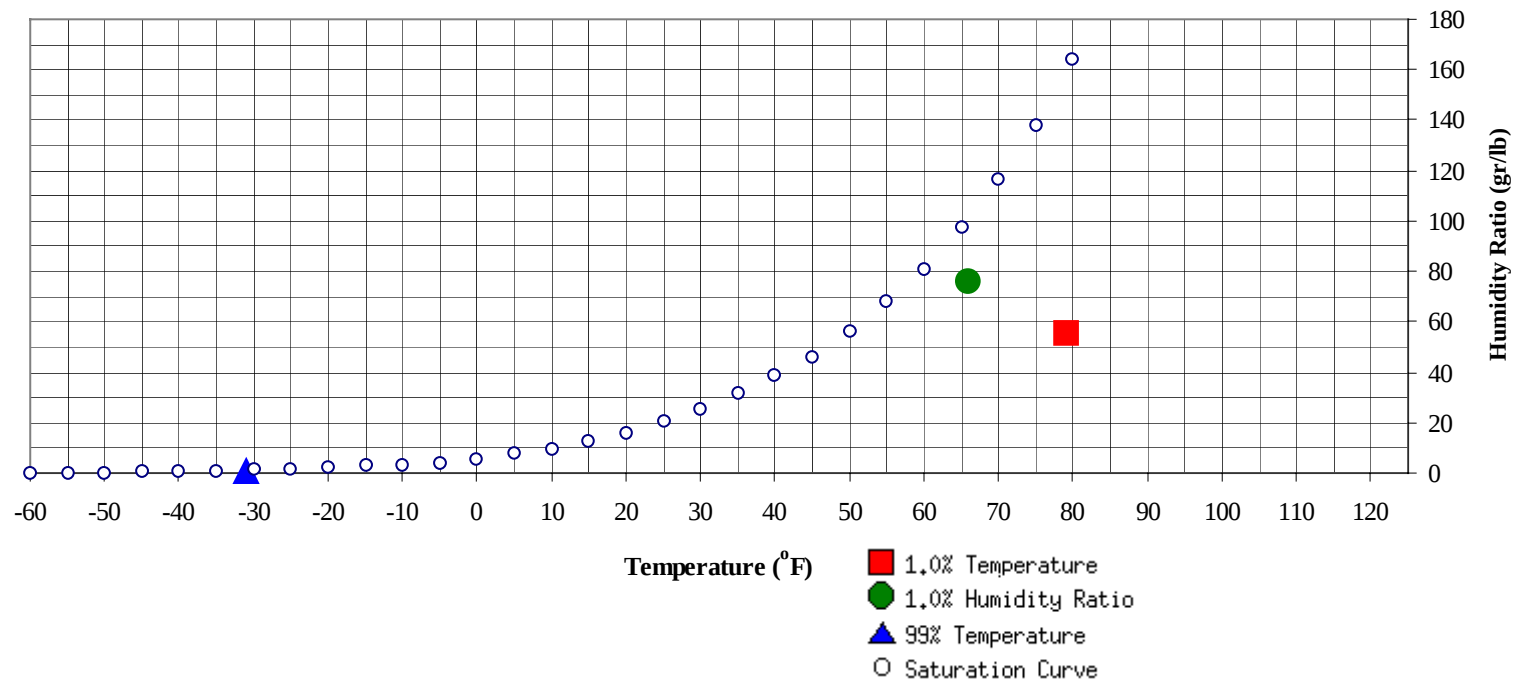


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

FORT NELSON 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)
	-31	0.7	-7.3		76.3	65.8	60.9	58.1	27.7

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	79	55.9	61.1	27.7

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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		
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64													0	0	46.0
55 / 59												1	1	2	42.0
50 / 54							0	0	0	41.1		4	3	7	39.3
45 / 49	1	0	0	1	38.0	1	2	1	4	36.6	0	12	9	21	35.9
40 / 44	0	1	1	2	35.3	1	2	2	5	33.9	1	13	12	26	33.4
35 / 39	1	2	2	5	31.4	1	5	5	11	31.5	4	22	22	48	30.9
30 / 34	2	2	3	7	28.7	5	8	9	22	28.1	15	23	30	68	27.8
25 / 29	3	4	5	12	24.8	8	11	12	31	24.2	33	26	35	94	23.7
20 / 24	4	5	5	14	20.5	8	11	13	32	20.3	24	20	23	67	19.8
15 / 19	10	12	12	34	16.3	14	17	17	48	16.1	31	32	31	94	15.5
10 / 14	16	18	17	51	11.2	18	20	22	60	10.9	36	31	28	95	10.7
5 / 9	25	28	29	82	5.8	23	25	25	73	5.9	30	25	21	76	5.8
0 / 4	30	35	35	99	0.7	28	30	29	87	0.6	27	18	15	60	0.8
-5 / -1	26	24	25	75	-3.7	22	21	23	66	-3.9	13	8	7	28	-3.6
-10 / -6	33	34	34	100	-8.0	30	27	26	83	-8.0	15	8	7	30	-8.0
-15 / -11	22	19	21	62	-12.5	20	15	14	49	-12.4	8	3	2	13	-12.3
-20 / -16	25	24	23	72	-16.9	17	14	12	43	-17.0	7	2	1	10	-16.6
-25 / -21	17	16	15	48	-22.1	12	9	8	29	-21.8	3	1	0	4	-21.8
-30 / -26	11	9	12	32	-27.2	11	5	5	21	-27.2	1	0		1	-27.0
-35 / -31	7	5	6	18	-31.8	3	2	1	6	-31.8	0	0		0	-31.0
-40 / -36	8	5	4	17	-36.4	2	1	0	3	-35.8					
-45 / -41	4	2	2	8	-41.8	1	0		1	-41.3					
-50 / -46	1	1	0	2	-46.3										
-55 / -51	0	0		0	-51.7										

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 NELSON CN

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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		
95 / 99															
90 / 94							0	0	0	66.5		0	0	0	63.8
85 / 89							0	0	0	63.6	0	1	0	1	63.1
80 / 84							1	1	2	59.3	0	6	5	11	60.6
75 / 79							5	4	9	56.1	0	20	17	37	58.5
70 / 74		1	1	2	50.4	0	15	14	29	53.5	0	41	34	75	56.0
65 / 69		2	2	4	48.8	0	18	16	34	51.5	2	41	34	77	54.0
60 / 64		9	9	18	46.2	2	41	37	80	48.8	17	57	55	129	52.6
55 / 59	0	19	19	38	43.1	11	53	48	112	46.3	52	42	50	144	50.9
50 / 54	2	34	29	65	40.2	29	45	48	122	44.2	85	21	32	138	48.3
45 / 49	9	45	43	97	37.4	61	33	40	134	41.7	60	8	11	79	44.5
40 / 44	15	31	34	80	35.1	49	16	18	83	38.5	17	1	1	19	40.3
35 / 39	44	37	41	122	32.6	55	14	14	83	34.8	6	1	1	8	36.9
30 / 34	71	27	30	128	29.0	31	6	7	44	30.3	0	0		0	32.9
25 / 29	55	14	15	84	24.5	8	1	1	10	25.2					
20 / 24	14	7	6	27	20.2	2	0	0	2	20.7					
15 / 19	11	6	6	23	15.9	0			0	17.0					
10 / 14	7	4	4	15	10.7										
5 / 9	5	3	2	10	5.8										
0 / 4	4	1	0	5	0.8										
-5 / -1	1	0	0	1	-3.5										
-10 / -6	1	0	0	1	-7.3										
-15 / -11	0			0	-12.3										
-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 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		
95 / 99			0	0	66.0										
90 / 94		1	1	2	65.6		0	0	0	65.5					
85 / 89		2	3	5	64.9		2	2	4	65.9					
80 / 84		11	10	21	63.1		9	8	17	63.5		1	1	2	60.4
75 / 79	0	30	23	53	61.0	0	21	18	39	61.3		3	2	5	59.3
70 / 74	1	52	42	95	58.6	1	36	27	64	58.8		10	7	17	56.9
65 / 69	5	44	39	88	57.4	3	33	29	65	57.1	0	13	10	23	54.4
60 / 64	32	53	58	143	56.1	23	50	49	122	55.5	2	31	22	55	51.3
55 / 59	88	36	51	175	53.7	51	43	50	144	52.9	7	39	38	84	49.3
50 / 54	87	14	20	121	50.0	79	31	41	151	49.8	25	43	51	119	47.2
45 / 49	31	3	2	36	45.7	58	14	16	88	45.2	58	44	49	151	43.9
40 / 44	4		0	4	41.3	21	6	6	33	41.1	46	24	27	97	39.9
35 / 39	1			1	36.5	10	2	2	14	36.6	57	20	22	99	36.1
30 / 34						2	0	0	2	32.1	32	8	10	50	31.3
25 / 29						1			1	25.5	9	2	2	13	26.6
20 / 24						0			0	21.0	2	1	1	4	21.0
15 / 19											1	0	0	1	17.2
10 / 14															
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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FORT NELSON CN

WMO No. 719450

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		
95 / 99															
90 / 94															
85 / 89															
80 / 84		0		0	59.0										
75 / 79		0	0	0	58.0										
70 / 74		1	0	1	54.2										
65 / 69		1	1	2	52.2										
60 / 64		5	2	7	49.0										
55 / 59	0	11	6	17	45.9										
50 / 54	3	17	13	33	42.9		0	0	0	41.0	0	0		0	38.3
45 / 49	7	22	21	50	40.2	0	1	1	2	36.5	0	0	0	0	37.1
40 / 44	13	22	21	56	37.7	1	2	1	4	34.8	0	0	0	0	34.6
35 / 39	34	45	43	122	34.5	2	5	3	10	32.6	1	1	1	3	31.2
30 / 34	74	54	65	193	30.5	6	10	8	24	29.1	2	2	2	6	28.7
25 / 29	59	32	39	130	25.8	13	17	18	48	25.1	3	4	4	11	24.5
20 / 24	21	13	11	45	21.2	11	15	15	41	21.1	4	5	6	15	20.6
15 / 19	17	14	13	44	16.6	27	29	30	86	16.5	11	14	11	36	16.3
10 / 14	10	8	7	25	11.6	38	34	33	105	11.4	19	20	21	60	11.1
5 / 9	5	2	3	10	6.5	37	37	38	112	6.2	30	33	30	93	6.0
0 / 4	3	1	2	6	0.9	31	33	33	97	0.8	32	34	37	103	0.8
-5 / -1	1	1	1	3	-3.6	21	19	20	60	-3.6	27	27	27	81	-3.6
-10 / -6	1	0	1	2	-8.1	24	20	21	65	-7.8	36	34	35	105	-7.9
-15 / -11	0	0	0	0	-12.3	13	9	10	32	-12.3	20	20	20	60	-12.5
-20 / -16	0	0	0	0	-15.9	10	6	6	22	-16.8	24	19	22	65	-16.7
-25 / -21						5	2	2	9	-21.8	11	12	9	32	-22.1
-30 / -26						1	1	0	2	-27.0	9	10	10	29	-27.4
-35 / -31						0	0	0	0	-31.0	6	4	6	16	-32.0
-40 / -36						0	0	0	0		7	5	6	18	-36.3
-45 / -41						0			0		4	2	2	8	-41.5
-50 / -46											0	0	0	0	-46.2
-55 / -51															

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FORT NELSON CN

WMO No. 719450

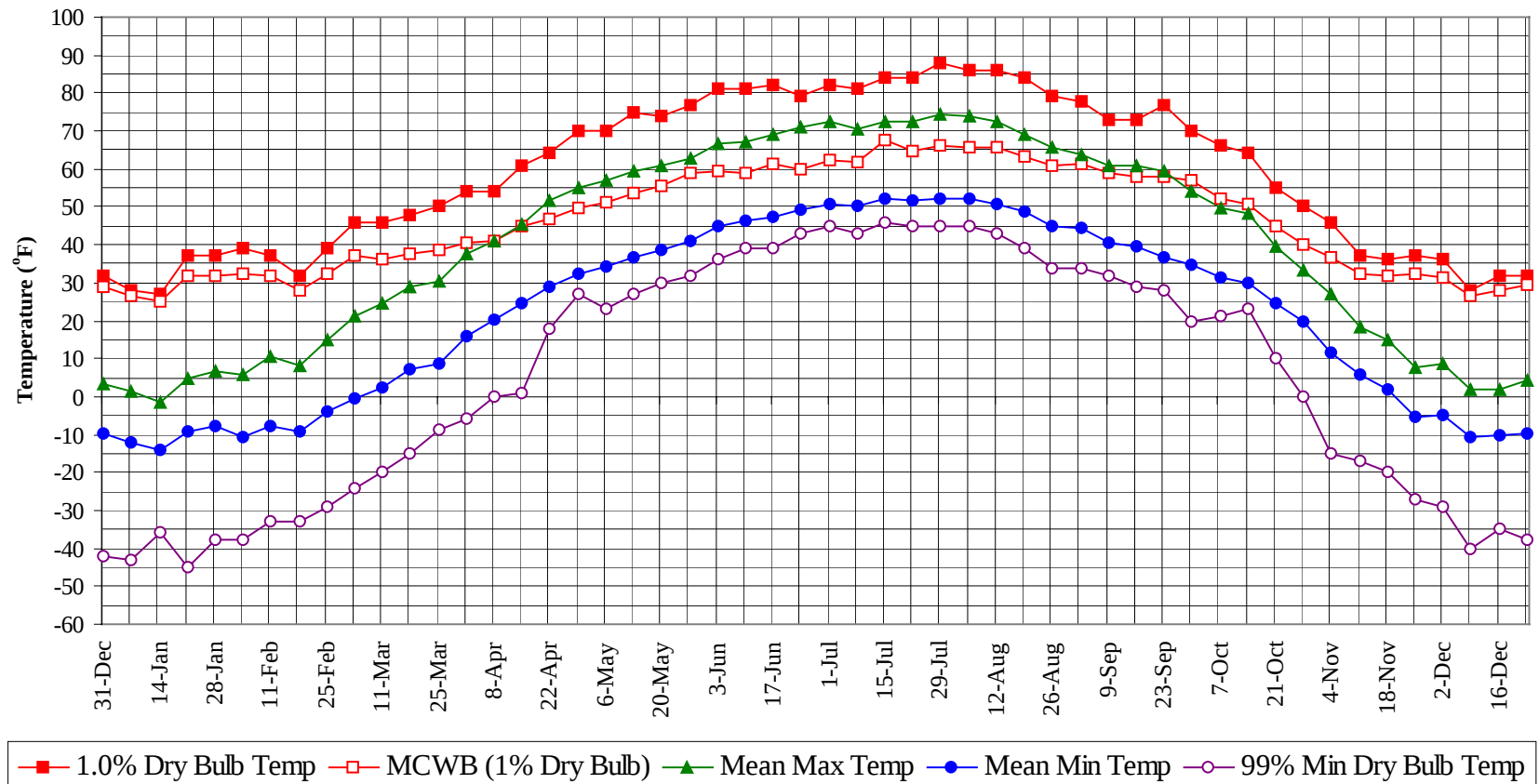
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

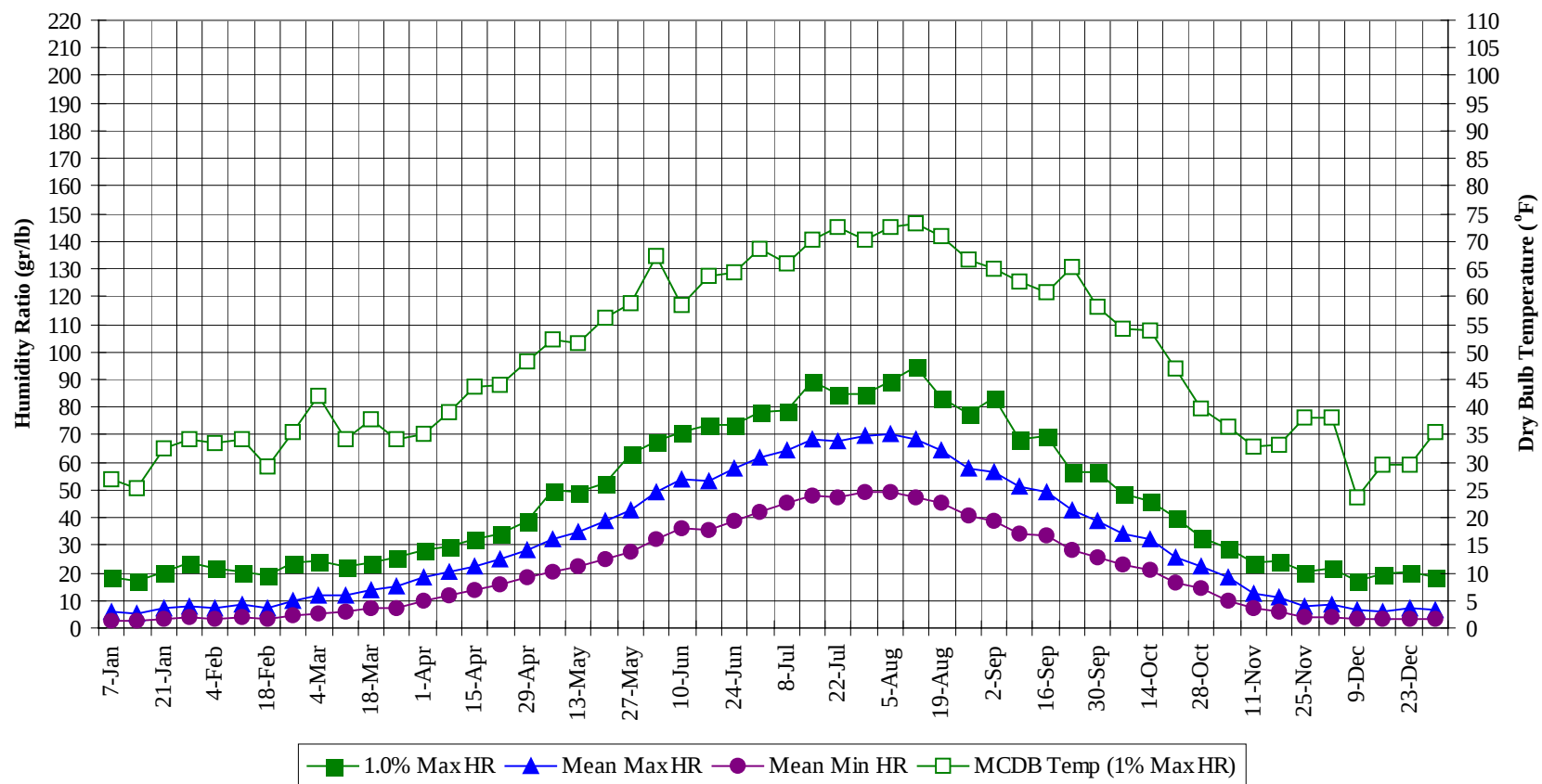
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99			0	0	66.0
90 / 94		2	1	3	65.5
85 / 89	0	5	5	10	65.0
80 / 84	0	28	25	53	62.5
75 / 79	0	79	64	143	60.1
70 / 74	2	154	124	281	57.3
65 / 69	10	152	130	293	55.3
60 / 64	75	246	231	552	53.2
55 / 59	209	242	260	711	50.5
50 / 54	311	211	237	759	47.0
45 / 49	285	184	192	661	42.2
40 / 44	167	118	123	408	38.0
35 / 39	217	154	154	525	34.0
30 / 34	241	140	164	545	29.7
25 / 29	190	111	132	433	24.9
20 / 24	91	77	80	248	20.5
15 / 19	121	126	120	368	16.1
10 / 14	143	136	132	412	11.1
5 / 9	156	153	148	457	6.0
0 / 4	156	152	151	459	0.7
-5 / -1	111	101	102	314	-3.7
-10 / -6	140	122	123	386	-7.9
-15 / -11	84	65	67	216	-12.5
-20 / -16	84	65	65	214	-16.8
-25 / -21	48	40	33	121	-22.0
-30 / -26	34	25	28	87	-27.2
-35 / -31	16	12	13	41	-31.9
-40 / -36	17	11	11	39	-36.3
-45 / -41	9	5	3	17	-41.6
-50 / -46	2	1	0	3	-46.3
-55 / -51	0	0		0	-51.7

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Annual Summary of Temperatures

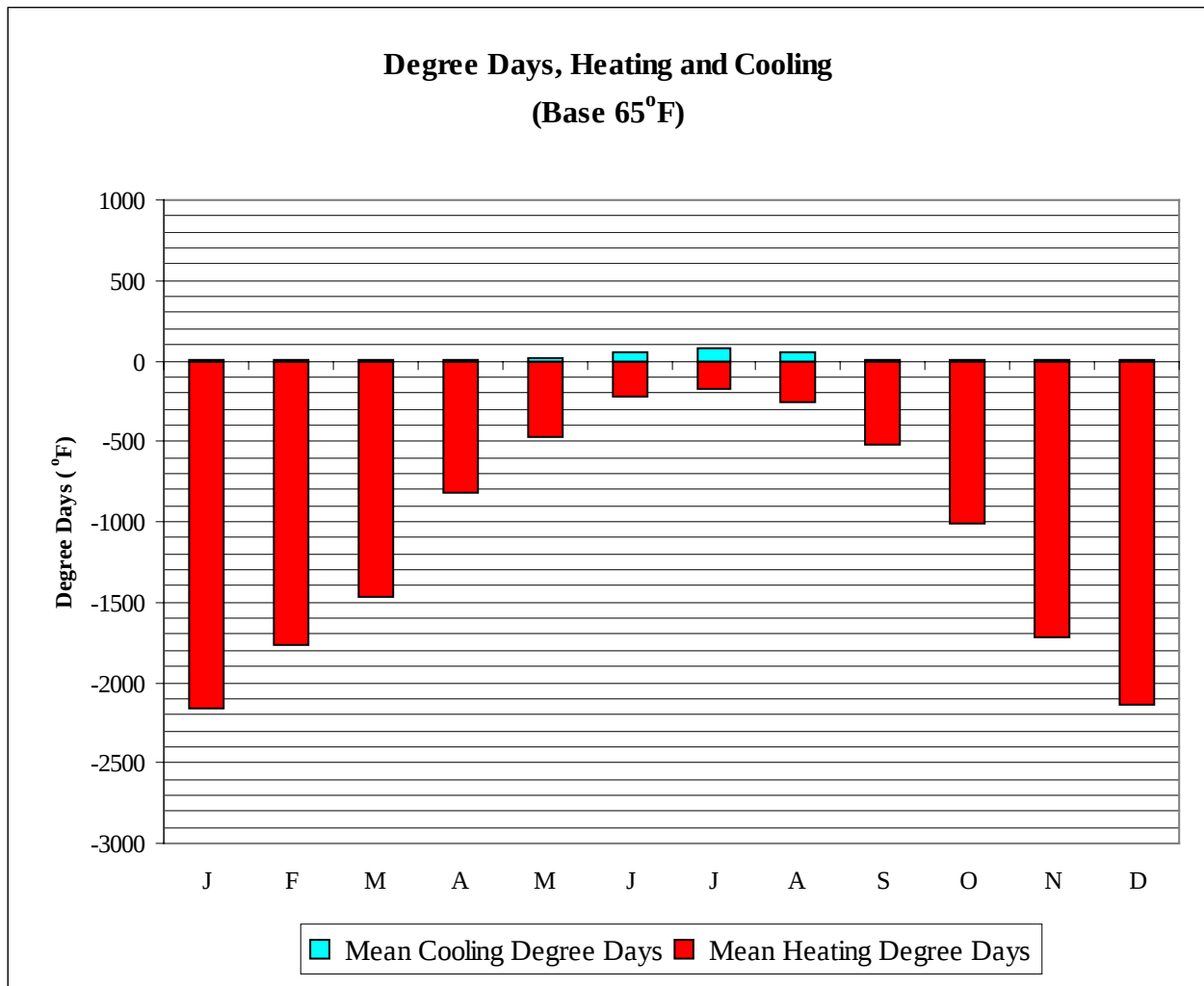


Long Term Humidity and Dry Bulb Temperature Summary



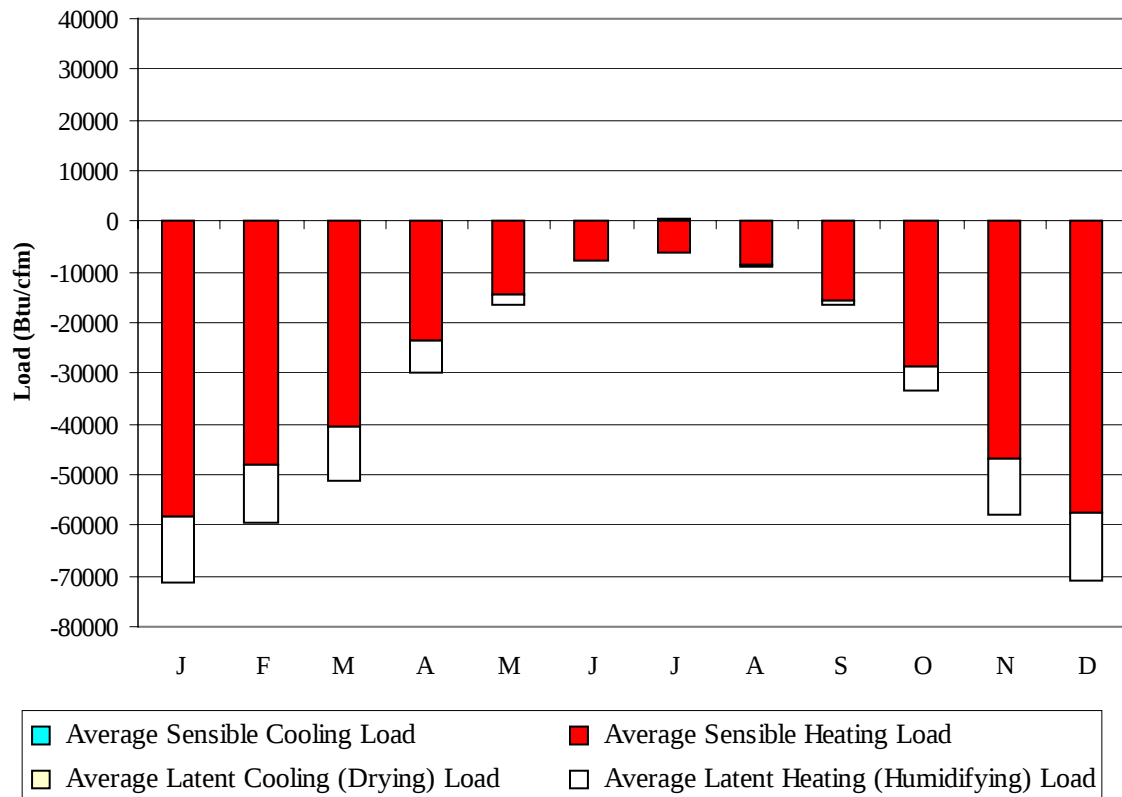
FORT NELSON CN**WMO No. 719450****Long Term Dry Bulb Temperature and Humidity Summary**

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	26.6	1.2	-12.2	-43.0	18.2	27.1	6.1	2.9
14-Jan	27.0	25.2	-1.5	-14.3	-36.0	16.8	25.3	5.3	2.6
21-Jan	37.0	31.7	4.7	-9.1	-45.0	20.3	32.6	7.1	3.5
28-Jan	37.0	31.7	6.9	-7.6	-38.0	23.8	34.0	7.8	3.9
4-Feb	39.0	32.4	5.5	-10.7	-38.0	21.7	33.5	7.1	3.1
11-Feb	37.0	31.7	10.7	-7.9	-33.0	20.3	34.1	8.8	3.8
18-Feb	32.0	27.8	8.2	-9.1	-33.0	18.9	29.2	7.5	3.2
25-Feb	39.0	32.4	14.7	-4.1	-29.0	23.8	35.6	10.1	4.6
4-Mar	46.0	37.3	21.3	-0.3	-24.0	24.5	42.0	11.9	5.4
11-Mar	46.0	36.2	24.6	2.6	-20.0	22.4	34.0	12.1	5.7
18-Mar	48.0	37.7	28.9	7.4	-15.0	23.8	37.8	14.1	7.0
25-Mar	50.0	38.6	30.5	8.9	-9.0	25.9	34.3	15.0	7.5
1-Apr	54.0	40.7	37.9	16.1	-6.0	28.0	35.1	18.3	10.1
8-Apr	54.0	40.9	40.9	20.2	0.0	29.4	39.1	20.4	11.7
15-Apr	61.0	45.1	45.5	24.7	1.0	32.2	43.8	22.4	13.8
22-Apr	64.0	46.8	51.5	29.1	18.0	34.3	43.8	24.7	15.8
29-Apr	70.0	49.9	55.2	32.2	27.0	38.5	48.4	28.6	18.2
6-May	70.0	51.3	56.9	34.3	23.0	49.7	52.1	32.2	20.2
13-May	75.0	53.4	59.2	36.7	27.0	49.0	51.6	34.9	22.1
20-May	74.0	55.5	60.7	38.7	30.0	52.5	56.1	39.0	25.0
27-May	77.0	58.7	62.7	40.8	32.0	63.0	58.8	42.9	27.3
3-Jun	81.0	59.3	66.7	44.7	36.0	67.9	67.2	49.3	32.1
10-Jun	81.0	59.0	66.9	46.2	39.0	70.7	58.5	53.6	36.0
17-Jun	82.0	61.6	69.2	47.2	39.0	73.5	63.9	53.3	35.3
24-Jun	79.0	60.1	70.9	49.1	43.0	73.5	64.3	57.8	38.5
1-Jul	82.0	62.1	72.2	50.8	45.0	78.4	68.7	61.7	42.0
8-Jul	81.0	61.8	70.7	50.1	43.0	79.1	66.0	64.6	45.3
15-Jul	84.0	67.4	72.2	52.3	46.0	89.6	70.4	68.0	48.2
22-Jul	84.0	64.9	72.5	51.6	45.0	84.7	72.5	67.7	47.2
29-Jul	88.0	66.1	74.2	52.3	45.0	84.7	70.2	69.9	49.0
5-Aug	86.0	65.6	73.8	52.2	45.0	89.6	72.5	70.4	49.1
12-Aug	86.0	65.6	72.6	50.9	43.0	94.5	73.1	68.0	47.5
19-Aug	84.0	63.2	69.1	48.9	39.0	83.3	70.9	64.3	45.2
26-Aug	79.0	60.8	65.9	44.9	34.0	77.7	66.7	57.9	40.7
2-Sep	78.0	61.5	63.7	44.3	34.0	83.3	65.1	56.5	38.9
9-Sep	73.0	59.1	60.6	40.4	32.0	68.6	62.8	51.0	34.2
16-Sep	73.0	57.9	61.0	39.8	29.0	69.3	60.6	49.2	33.2
23-Sep	77.0	57.9	59.4	36.8	28.0	56.7	65.3	42.9	28.1
30-Sep	70.0	56.9	54.2	34.6	20.0	56.7	58.3	38.8	25.4
7-Oct	66.0	52.3	49.6	31.5	21.0	48.3	54.3	34.4	22.7
14-Oct	64.0	50.8	48.0	29.9	23.0	46.2	53.9	32.3	21.1
21-Oct	55.0	45.1	39.6	24.5	10.0	39.9	47.0	25.4	16.7
28-Oct	50.0	40.2	33.4	20.0	0.0	32.9	39.7	22.3	14.4
4-Nov	46.0	36.7	27.2	11.7	-15.0	28.7	36.5	18.3	10.2
11-Nov	37.0	32.5	18.1	5.5	-17.0	23.8	32.9	12.7	7.4
18-Nov	36.0	31.9	15.0	1.9	-20.0	24.5	33.3	11.3	6.0
25-Nov	37.0	32.3	7.8	-5.5	-27.0	20.3	38.0	7.7	3.8
2-Dec	36.0	31.1	8.4	-4.7	-29.0	21.7	38.0	8.3	4.1
9-Dec	28.0	26.4	1.9	-10.6	-40.0	16.8	23.7	6.4	3.1
16-Dec	32.0	27.9	1.8	-10.4	-35.0	19.6	29.5	6.1	3.1
23-Dec	32.0	29.5	4.3	-9.8	-38.0	20.3	29.4	7.3	3.4
31-Dec	32.0	28.9	3.5	-9.8	-42.0	18.2	35.3	6.7	3.4



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	2161
FEB	0	1772
MAR	0	1467
APR	1	823
MAY	16	469
JUN	52	223
JUL	79	168
AUG	56	262
SEP	9	522
OCT	1	1008
NOV	0	1716
DEC	0	2133
ANN	213	12724

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	-58424	0	-13034
FEB	0	-48140	0	-11348
MAR	0	-40430	0	-10805
APR	0	-23662	0	-6341
MAY	33	-14381	0	-2237
JUN	159	-7574	0	-263
JUL	343	-6019	56	-17
AUG	246	-8681	55	-77
SEP	15	-15739	0	-898
OCT	1	-28517	0	-4940
NOV	0	-46819	0	-11177
DEC	0	-57687	0	-13133
ANN	797	-356073	111	-74270

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

No Solar Radiation
Data Available

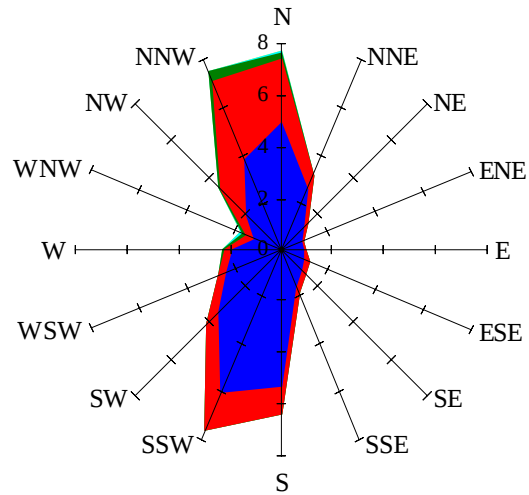


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

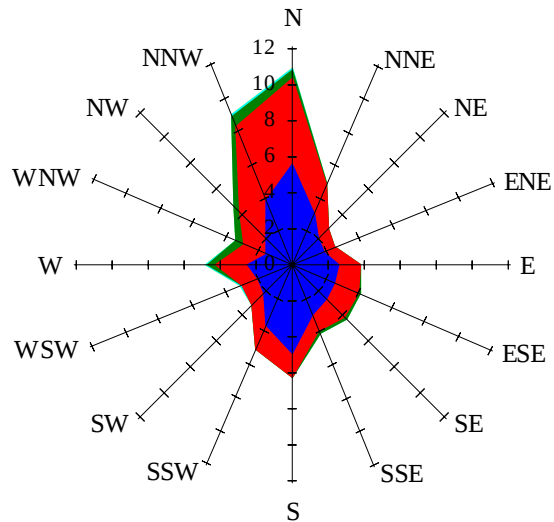
Labels of Percent Frequency on North Axis



Percent Calm = 46.14

Wind Summary - March, April, and May

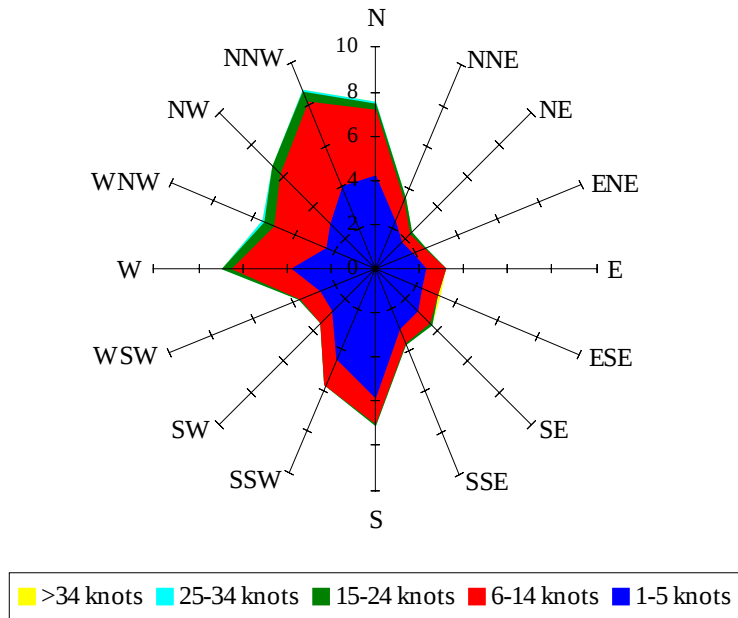
Labels of Percent Frequency on North Axis



Percent Calm = 24.04

Wind Summary - June, July, and August

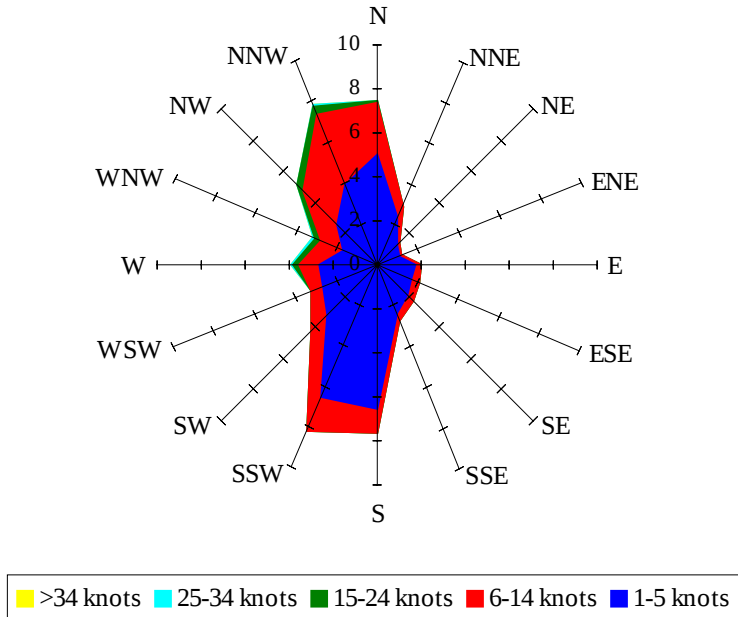
Labels of Percent Frequency on North Axis



Percent Calm = 23.75

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 34.47