

HAVRE MT	
Latitude = 48.55 N	WMO No. 727770
Longitude = 109.70 W	Elevation = 2599 feet
Period of Record = 1973 to 1996	Average Pressure = 27.21 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	65	44	10.6	W
0.4% Occurrence	94	63	46	9.7	W
1.0% Occurrence	90	62	48	9.4	W
2.0% Occurrence	87	62	50	9.4	W
Mean Daily Range	24	-	-	-	-
97.5% Occurrence	-9	-9	3	7.2	WSW
99.0% Occurrence	-18	-18	1	6.4	W
99.6% Occurrence	-24	-24	1	5.5	WSW
Median of Extreme Lows	-31	-31	1	4.9	WSW
	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	70	88	91	9.3	ESE
0.4% Occurrence	66	86	71	8.7	E
1.0% Occurrence	64	84	65	8.6	E
2.0% Occurrence	63	83	62	8.8	E
	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	99	78	0.60	9.4	ESE
0.4% Occurrence	85	73	0.52	7.8	E
1.0% Occurrence	77	69	0.47	7.8	E
2.0% Occurrence	74	69	0.45	8.0	E
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		52	458	2	33

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
5	1.5	90	0.0 + 0.5
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 (#)
45.7	N/A	24	99

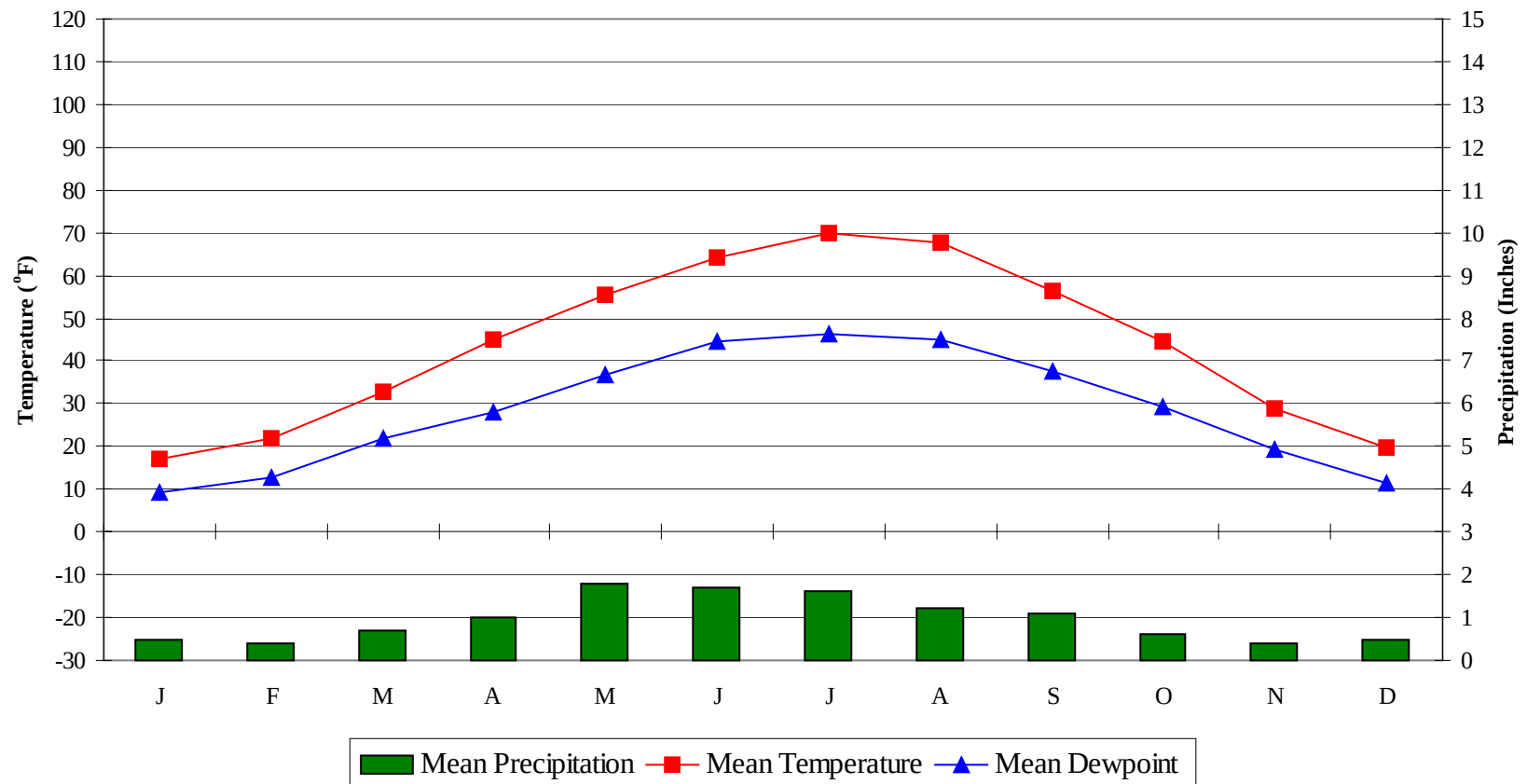
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

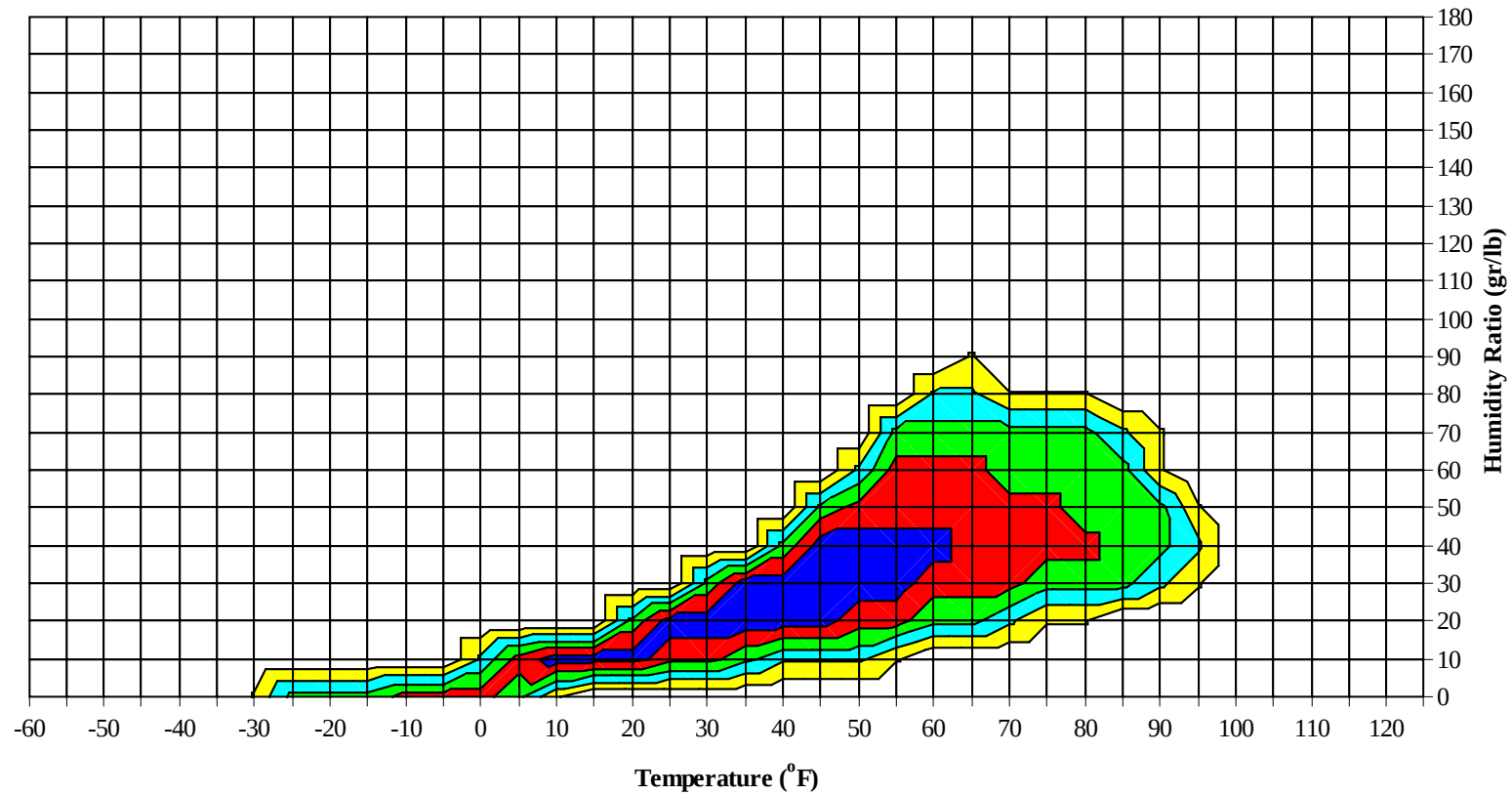


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Long Term Psychrometric Summary



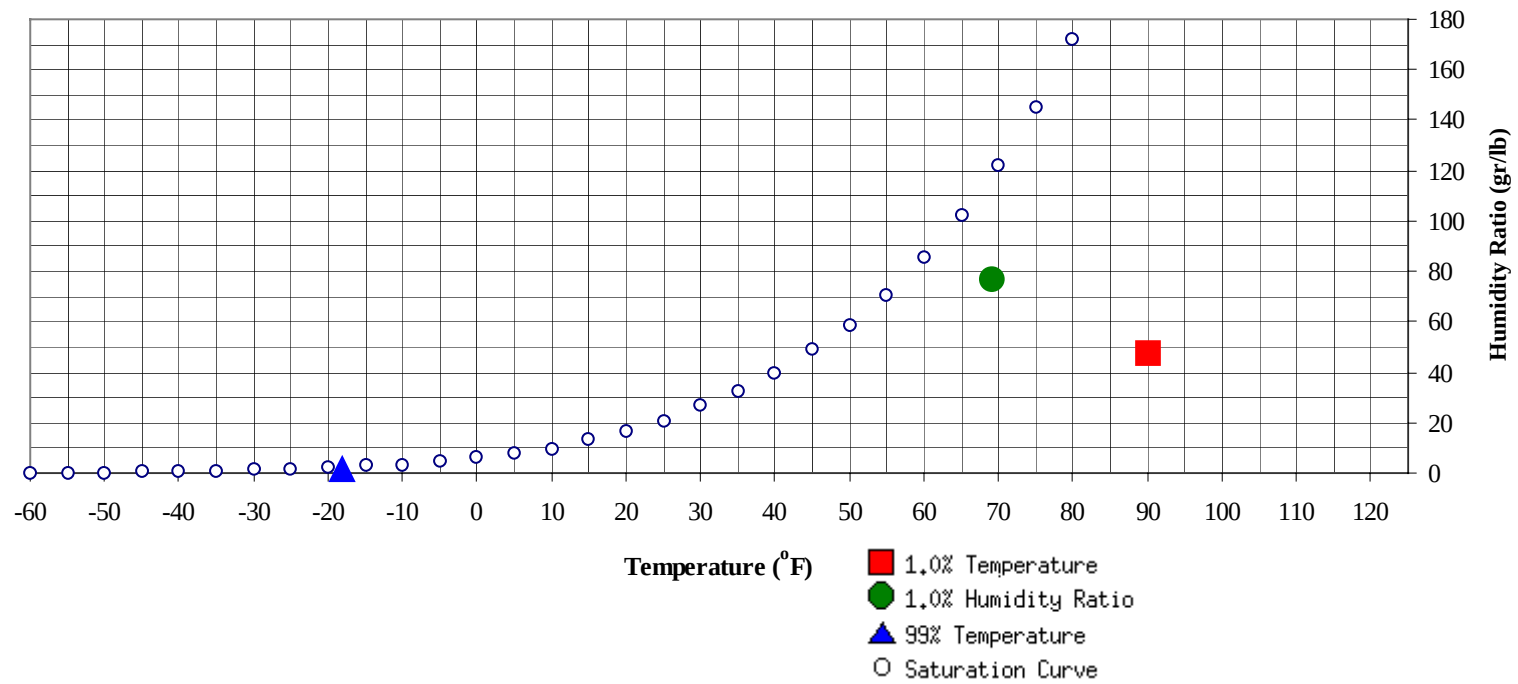
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	-18	1.5	-4.1		77	69.1	61.3	57	28.6

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	90	47.7	62.3	29.1

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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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79												0		0	52.0
70 / 74							0	0	0	49.0		1	0	1	50.2
65 / 69		0		0	46.0		1	0	1	47.5		3	1	4	48.4
60 / 64		0	0	0	45.1		2	0	2	45.0		8	2	10	45.5
55 / 59		1	0	1	43.1		5	1	6	43.3	0	16	6	22	43.4
50 / 54	0	6	1	7	41.0	0	12	3	15	40.8	1	28	13	42	40.8
45 / 49	3	12	7	22	38.3	2	19	8	29	38.3	4	31	21	57	38.5
40 / 44	10	20	12	42	35.6	10	27	19	56	35.6	13	35	34	83	36.0
35 / 39	22	30	29	81	32.8	24	28	33	85	32.6	37	39	46	123	33.1
30 / 34	25	27	28	80	28.8	30	20	32	82	29.0	52	28	45	125	29.5
25 / 29	24	26	27	77	25.0	28	17	25	70	25.1	53	21	30	104	25.3
20 / 24	23	19	24	66	20.8	24	15	16	55	20.5	34	12	16	62	20.8
15 / 19	24	15	20	59	16.1	21	14	15	50	16.0	18	10	11	39	16.1
10 / 14	17	14	14	45	11.1	14	14	13	41	10.9	11	5	7	23	11.0
5 / 9	20	19	15	54	6.1	15	16	14	45	5.8	6	4	4	14	6.2
0 / 4	16	15	14	45	1.1	13	11	12	36	1.1	5	4	4	13	1.4
-5 / -1	11	11	10	32	-3.3	10	8	9	27	-3.4	3	2	3	8	-3.3
-10 / -6	16	17	17	50	-7.6	11	8	9	28	-7.5	3	1	2	6	-7.4
-15 / -11	13	10	13	36	-12.2	6	4	4	14	-12.2	2	1	1	4	-11.8
-20 / -16	11	6	7	24	-16.9	6	3	4	13	-17.1	2	0	1	3	-16.7
-25 / -21	5	2	4	11	-21.8	5	2	2	9	-22.2	1	0	0	1	-21.7
-30 / -26	3	1	2	6	-26.5	3	1	1	5	-26.4	1		0	1	-25.8
-35 / -31	2	0	1	3	-31.7	1	0	1	2	-31.6	0			0	
-40 / -36	0	0	0	0	-35.9	1	0	0	1	-36.7					
-45 / -41	0			0		0	0		0	-40.9					
-50 / -46															

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		
110 / 114											0			0	77.0
105 / 109											0	0		0	66.0
100 / 104											0	0	0	0	66.0
95 / 99							0		0	61.0	0	3	1	4	64.7
90 / 94							1	0	1	60.2	0	7	3	10	63.5
85 / 89		0	0	0	57.0		5	2	7	59.0	0	15	7	22	62.1
80 / 84		2	1	3	56.5		12	4	16	57.7	0	26	14	39	60.1
75 / 79		7	2	9	53.7	0	18	9	28	56.2	2	39	24	65	58.7
70 / 74		14	5	19	51.8	1	28	15	44	54.0	6	43	29	79	56.4
65 / 69	0	19	10	29	49.3	4	44	25	73	51.5	17	45	39	101	54.6
60 / 64	1	24	15	41	46.9	10	46	35	91	49.3	34	30	44	108	53.0
55 / 59	5	32	23	61	44.4	27	37	45	109	47.7	60	19	39	119	51.0
50 / 54	13	39	33	86	41.9	49	28	47	124	45.3	64	10	26	101	47.5
45 / 49	26	35	36	98	39.4	64	16	34	114	42.2	39	3	11	54	43.8
40 / 44	40	26	43	109	36.7	48	8	20	76	38.3	14	0	2	16	39.8
35 / 39	61	21	34	116	33.5	31	5	8	44	34.2	3		0	3	35.8
30 / 34	51	10	21	82	29.7	11	1	3	15	30.7	0			0	30.4
25 / 29	22	4	8	34	25.2	2		0	2	25.8					
20 / 24	10	4	4	18	20.7										
15 / 19	6	2	2	10	16.0										
10 / 14	2	1	1	4	11.1										
5 / 9	1	0	0	1	6.9										
0 / 4	1	0	0	1	1.4										
-5 / -1	0	0	0	0	-2.6										
-10 / -6	0		0	0	-7.3										
-15 / -11	0			0	-12.0										
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															

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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		
110 / 114															
105 / 109		0	0	0	66.7		0	0	0	66.8					
100 / 104		1	0	1	65.0		1	0	1	64.6					
95 / 99		9	4	14	63.8		6	2	8	63.9		1	0	1	62.6
90 / 94		21	12	33	63.0		19	9	28	62.5		4	1	5	60.4
85 / 89	0	32	17	49	62.3		30	16	46	61.6		9	3	12	58.9
80 / 84	1	44	28	72	60.3	0	38	22	60	60.0	0	15	6	22	57.5
75 / 79	4	52	37	93	58.7	2	46	31	79	58.4	0	27	12	39	56.0
70 / 74	15	41	36	92	57.4	10	40	39	89	56.6	0	31	16	47	54.0
65 / 69	32	26	41	100	56.1	27	29	42	98	55.2	2	33	22	57	51.9
60 / 64	60	13	36	109	54.3	54	21	39	113	53.4	11	37	35	82	50.2
55 / 59	71	6	26	103	51.9	68	12	28	109	50.8	26	29	38	92	48.0
50 / 54	47	3	10	59	48.4	56	6	16	77	47.7	50	25	41	116	45.6
45 / 49	17	0	1	18	44.2	22	0	3	25	43.4	59	17	34	110	42.6
40 / 44	2			2	40.1	6	1	1	8	39.8	43	7	19	69	38.5
35 / 39						2	0	0	2	36.3	30	4	9	43	34.8
30 / 34						0			0	33.0	12	2	3	17	30.2
25 / 29						0			0	20.0	4	0	1	5	25.9
20 / 24											2			2	21.4
15 / 19											0			0	18.0
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															

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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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89		1	0	1	57.5										
80 / 84	0	4	0	4	55.9										
75 / 79	0	7	1	8	54.0		0		0	51.0					
70 / 74	0	13	3	16	52.3		1		1	50.1					
65 / 69	0	22	6	28	50.0	0	3	0	3	48.9					
60 / 64	1	28	12	42	47.7	1	5	1	7	47.1		1	0	1	46.5
55 / 59	5	34	22	62	45.1	1	11	3	15	44.1	0	3	0	3	44.6
50 / 54	16	39	36	92	42.6	3	20	7	30	41.4	1	7	2	10	41.2
45 / 49	35	34	45	113	40.4	8	27	15	50	38.9	4	14	5	23	38.5
40 / 44	43	25	42	110	37.4	13	30	21	64	36.0	11	21	12	45	35.2
35 / 39	54	19	37	110	33.9	30	34	37	101	32.7	20	31	26	78	32.2
30 / 34	44	11	23	78	29.7	40	30	43	113	29.3	30	33	35	97	28.7
25 / 29	29	5	11	46	25.4	38	21	32	91	25.2	30	27	32	88	24.7
20 / 24	14	2	5	21	21.1	28	16	23	67	20.7	29	21	27	77	20.5
15 / 19	5	2	1	8	16.2	25	14	18	57	16.2	26	20	25	71	16.0
10 / 14	1	0	1	2	11.5	14	9	10	33	11.3	22	14	19	55	11.1
5 / 9	1	1	1	3	6.5	12	7	9	28	6.5	18	15	15	48	6.4
0 / 4	0	1	0	1	1.5	9	7	6	22	1.1	14	11	12	37	1.1
-5 / -1	0	0	0	0	-3.3	4	3	5	12	-3.2	9	7	7	23	-3.3
-10 / -6	0	0	1	1	-7.6	4	3	5	12	-7.3	9	7	8	24	-7.6
-15 / -11	0	0	0	0	-11.9	3	1	2	6	-12.1	7	5	7	19	-12.2
-20 / -16	0		0	0	-16.1	3	1	1	5	-16.9	6	7	6	19	-17.2
-25 / -21	0			0	-20.0	2	0	1	3	-21.4	5	4	4	13	-21.7
-30 / -26						0	0	0	0	-26.0	3	1	2	6	-26.7
-35 / -31						0		0	0	-30.0	2	1	1	4	-31.5
-40 / -36											1	0	1	2	-36.4
-45 / -41											0	0	0	0	-41.6
-50 / -46											0	0	0	0	-46.6

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

Period of Record = 1973 to 1996

Temperature Range (°F)	Annual Totals				M C W B (°F)
	Hour Group (LST)			Total Obs	
	01 To 08	09 To 16	17 To 00		
110 / 114	0			0	77.0
105 / 109	0	0	0	0	66.6
100 / 104	0	2	1	3	65.0
95 / 99	0	18	7	25	63.9
90 / 94	0	52	24	77	62.7
85 / 89	0	93	43	136	61.5
80 / 84	2	139	70	212	59.6
75 / 79	9	195	111	315	57.8
70 / 74	30	212	137	379	55.7
65 / 69	79	220	180	479	53.6
60 / 64	164	213	210	586	51.3
55 / 59	253	204	225	682	48.5
50 / 54	292	220	232	744	44.7
45 / 49	278	210	222	711	40.8
40 / 44	254	201	230	685	36.9
35 / 39	319	213	267	800	33.2
30 / 34	301	161	240	702	29.3
25 / 29	237	121	171	529	25.1
20 / 24	169	89	119	377	20.7
15 / 19	128	76	98	302	16.1
10 / 14	85	57	68	211	11.1
5 / 9	76	61	62	199	6.2
0 / 4	60	47	51	158	1.1
-5 / -1	40	31	36	106	-3.3
-10 / -6	46	36	43	124	-7.5
-15 / -11	32	20	30	81	-12.2
-20 / -16	29	16	20	66	-17.0
-25 / -21	18	8	12	38	-21.8
-30 / -26	10	3	6	19	-26.5
-35 / -31	5	1	2	8	-31.6
-40 / -36	2	1	1	4	-36.3
-45 / -41	1	0	0	1	-41.4
-50 / -46	0	0	0	0	-46.6

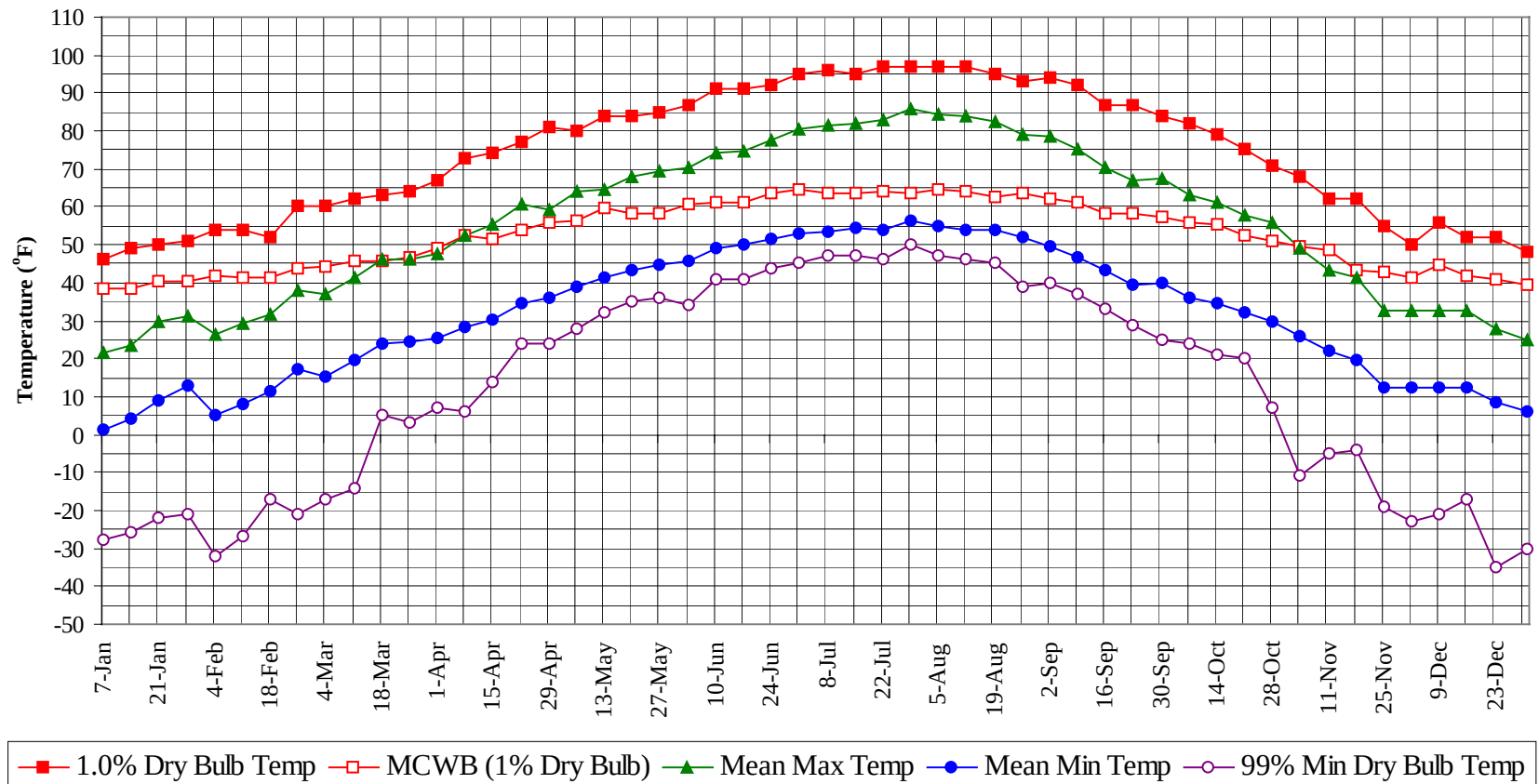
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Annual Summary of Temperatures

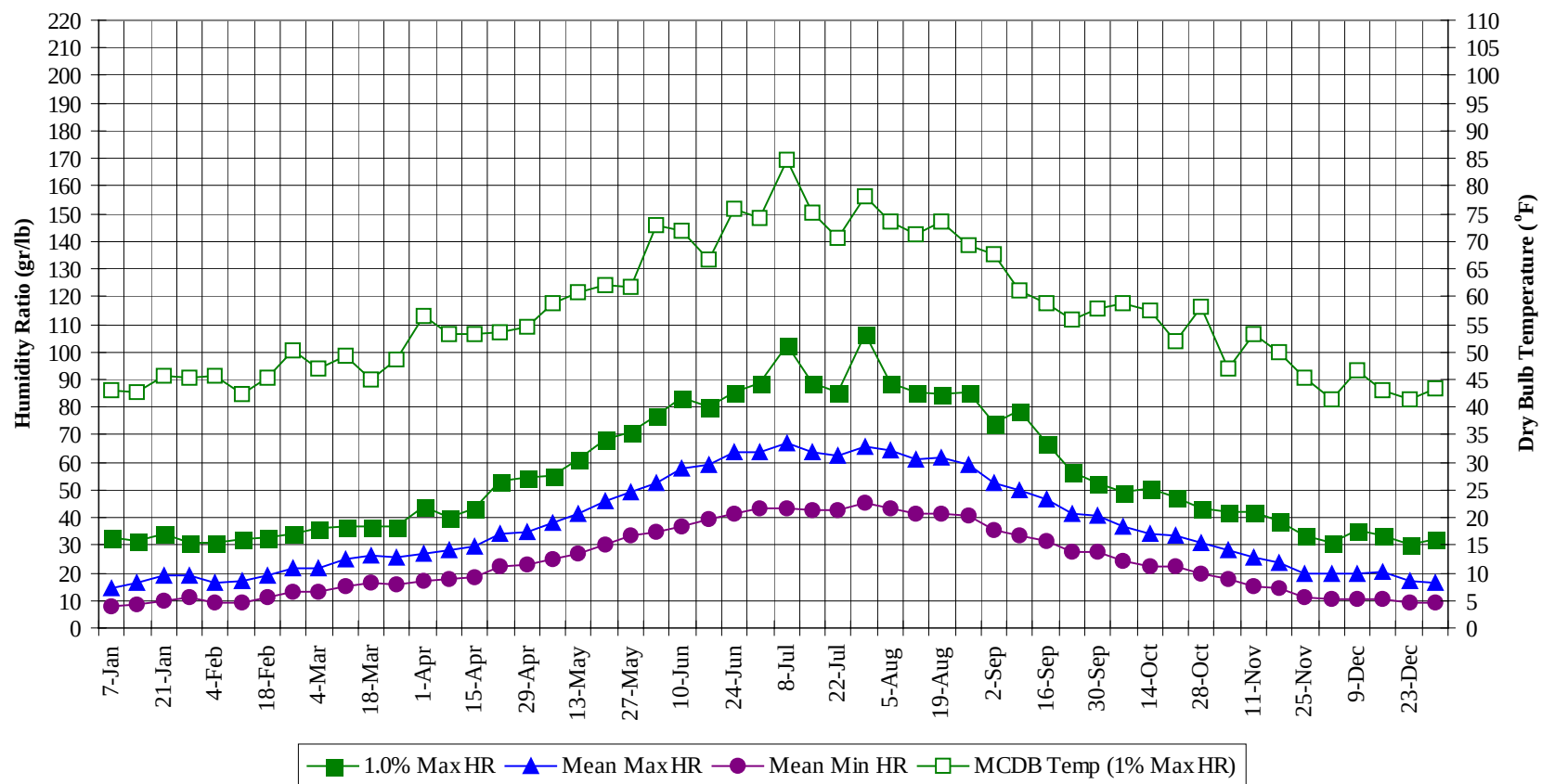


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Long Term Humidity and Dry Bulb Temperature Summary



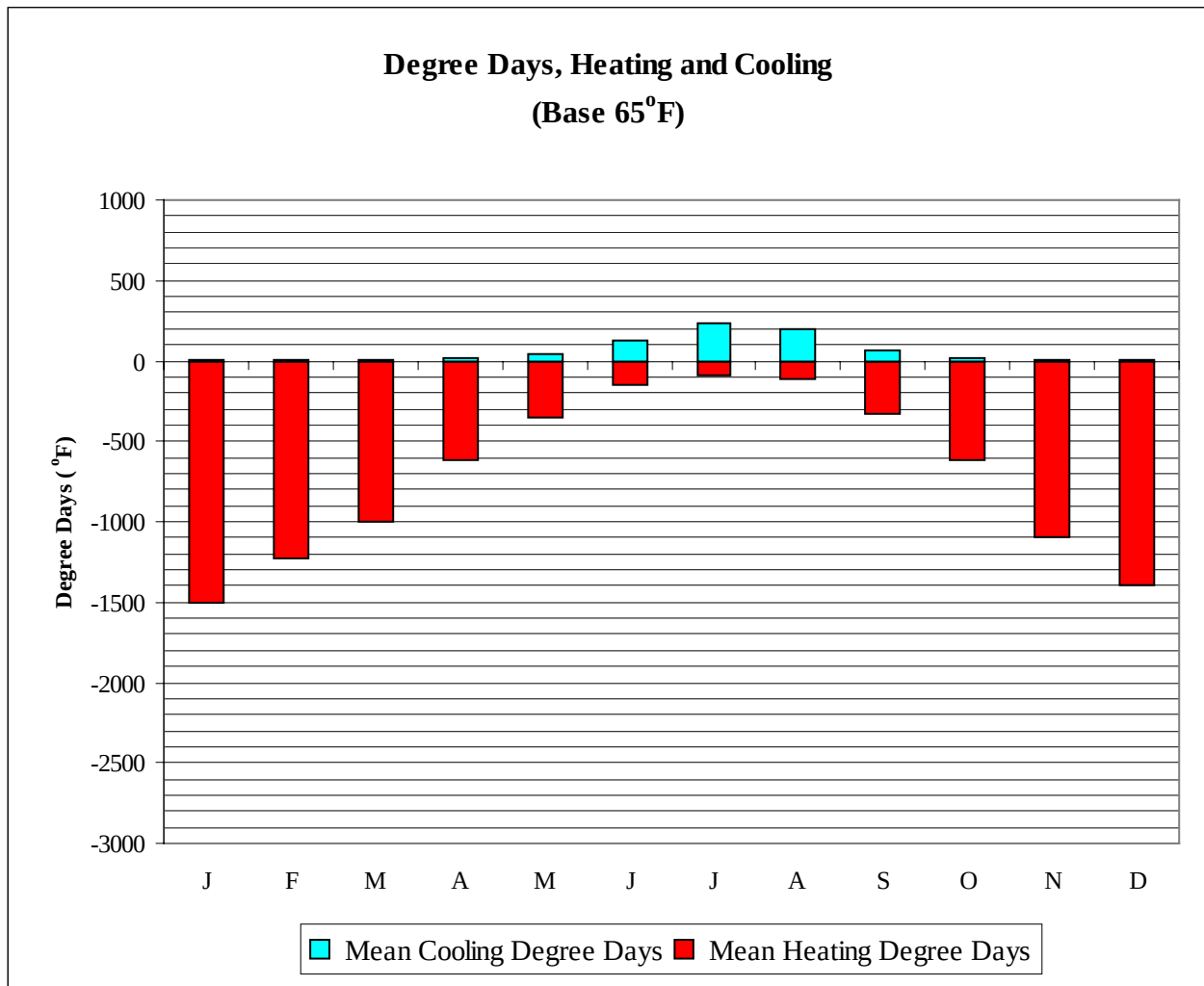
HAVRE**MT****WMO No. 727770****Long Term Dry Bulb Temperature and Humidity Summary**

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	46.0	38.5	21.4	1.3	-28.0	32.9	42.9	14.4	7.6
14-Jan	49.0	38.4	23.3	3.9	-26.0	31.5	42.7	16.1	8.3
21-Jan	50.0	40.5	29.9	9.1	-22.0	34.3	45.7	18.9	10.1
28-Jan	51.0	40.2	31.3	13.0	-21.0	30.8	45.4	19.1	11.3
4-Feb	54.0	41.8	26.1	5.2	-32.0	30.8	45.5	16.2	9.3
11-Feb	54.0	41.2	29.2	8.0	-27.0	32.2	42.3	17.0	9.1
18-Feb	52.0	41.3	31.8	11.4	-17.0	32.9	45.4	19.4	10.9
25-Feb	60.0	44.0	38.0	17.3	-21.0	34.3	50.1	21.8	13.0
4-Mar	60.0	44.3	37.0	15.2	-17.0	36.4	47.1	21.7	12.9
11-Mar	62.0	45.8	41.5	19.7	-14.0	37.1	49.3	24.6	15.0
18-Mar	63.0	45.9	46.0	23.7	5.0	37.1	45.1	26.2	16.6
25-Mar	64.0	46.7	46.0	24.2	3.0	37.1	48.5	25.7	15.8
1-Apr	67.0	49.2	47.5	25.4	7.0	44.1	56.4	27.1	17.1
8-Apr	73.0	52.5	52.4	28.2	6.0	39.9	53.2	28.5	18.0
15-Apr	74.0	51.5	55.6	30.5	14.0	43.4	53.2	29.7	18.7
22-Apr	77.0	53.8	60.7	34.6	24.0	53.2	53.4	34.1	22.3
29-Apr	81.0	55.6	59.2	36.1	24.0	54.6	54.5	34.9	23.1
6-May	80.0	56.1	63.9	38.8	28.0	55.3	58.7	38.0	25.0
13-May	84.0	59.7	64.7	41.2	32.0	60.9	60.8	41.6	27.2
20-May	84.0	58.5	67.9	43.2	35.0	68.6	62.2	46.1	30.5
27-May	85.0	58.4	69.4	44.9	36.0	70.7	61.9	49.2	33.2
3-Jun	87.0	60.7	70.4	45.9	34.0	77.0	73.0	52.8	35.0
10-Jun	91.0	61.0	74.5	49.1	41.0	83.3	71.8	57.6	36.6
17-Jun	91.0	61.0	74.6	49.8	41.0	79.8	66.8	59.1	39.1
24-Jun	92.0	63.5	77.6	51.7	44.0	85.4	75.8	63.8	41.7
1-Jul	95.0	64.4	80.4	52.8	45.0	88.9	74.1	63.6	43.1
8-Jul	96.0	63.8	81.6	53.5	47.0	102.2	84.6	67.0	43.3
15-Jul	95.0	63.7	81.9	54.3	47.0	88.9	75.3	63.4	42.8
22-Jul	97.0	64.0	83.2	53.8	46.0	85.4	70.6	62.2	42.5
29-Jul	97.0	63.5	85.6	56.4	50.0	106.4	78.3	65.8	45.2
5-Aug	97.0	64.5	84.6	55.0	47.0	88.9	73.7	64.2	43.5
12-Aug	97.0	64.1	83.9	54.1	46.0	85.4	71.1	61.2	41.6
19-Aug	95.0	62.8	82.3	53.7	45.0	84.7	73.7	61.8	41.1
26-Aug	93.0	63.4	79.1	52.1	39.0	85.4	69.4	58.9	40.7
2-Sep	94.0	61.9	78.8	49.5	40.0	74.2	67.6	52.7	35.3
9-Sep	92.0	61.1	75.3	46.7	37.0	79.1	61.1	50.0	33.8
16-Sep	87.0	58.1	70.4	43.2	33.0	67.2	58.9	46.6	31.5
23-Sep	87.0	58.5	66.7	39.5	29.0	56.7	55.8	41.6	27.7
30-Sep	84.0	57.3	67.5	39.9	25.0	52.5	57.9	41.0	27.5
7-Oct	82.0	55.7	63.2	36.3	24.0	49.0	58.8	37.0	24.4
14-Oct	79.0	55.1	61.3	34.5	21.0	50.4	57.5	34.3	22.6
21-Oct	75.0	52.6	57.6	32.1	20.0	47.6	51.9	33.8	22.4
28-Oct	71.0	51.0	55.8	29.8	7.0	43.4	58.1	30.8	19.6
4-Nov	68.0	49.6	49.0	25.7	-11.0	42.0	46.9	28.2	17.9
11-Nov	62.0	48.7	43.3	22.0	-5.0	42.0	53.1	25.6	15.4
18-Nov	62.0	43.2	41.4	19.7	-4.0	38.5	49.8	23.9	14.2
25-Nov	55.0	42.7	32.9	12.5	-19.0	33.6	45.4	19.7	11.3
2-Dec	50.0	41.3	32.6	12.2	-23.0	30.8	41.4	20.0	10.8
9-Dec	56.0	44.6	32.8	12.6	-21.0	35.7	46.6	19.6	10.6
16-Dec	52.0	41.8	32.8	12.2	-17.0	33.6	43.1	20.3	10.8
23-Dec	52.0	40.8	27.8	8.4	-35.0	30.1	41.5	17.0	9.4
31-Dec	48.0	39.6	25.0	5.9	-30.0	32.2	43.5	16.5	9.0

HAVRE

MT

WMO No. 727770

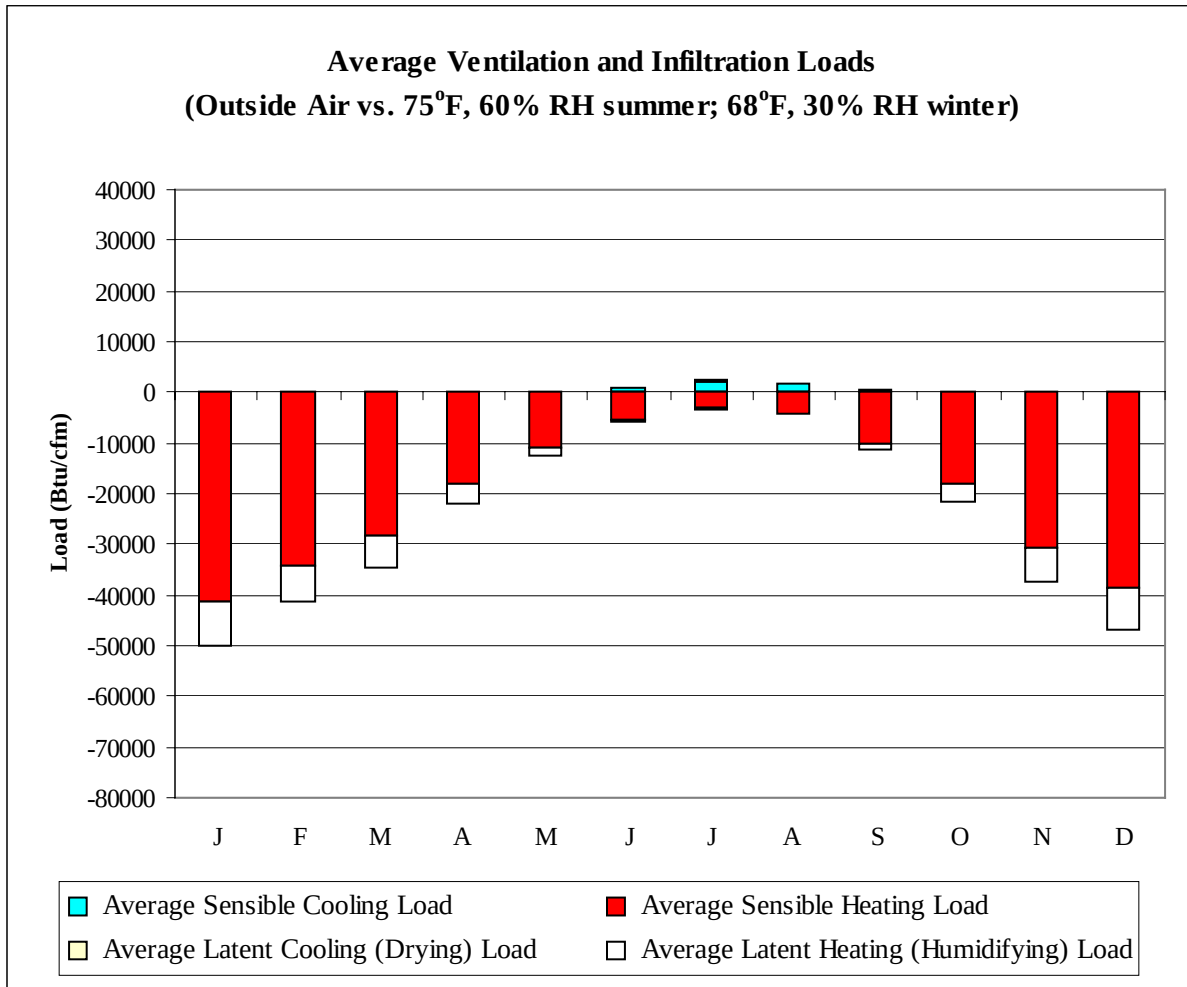


	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1500
FEB	0	1228
MAR	1	1004
APR	14	617
MAY	46	348
JUN	126	153
JUL	235	84
AUG	198	112
SEP	70	324
OCT	13	616
NOV	1	1090
DEC	0	1399
ANN	704	8475

HAVRE

MT

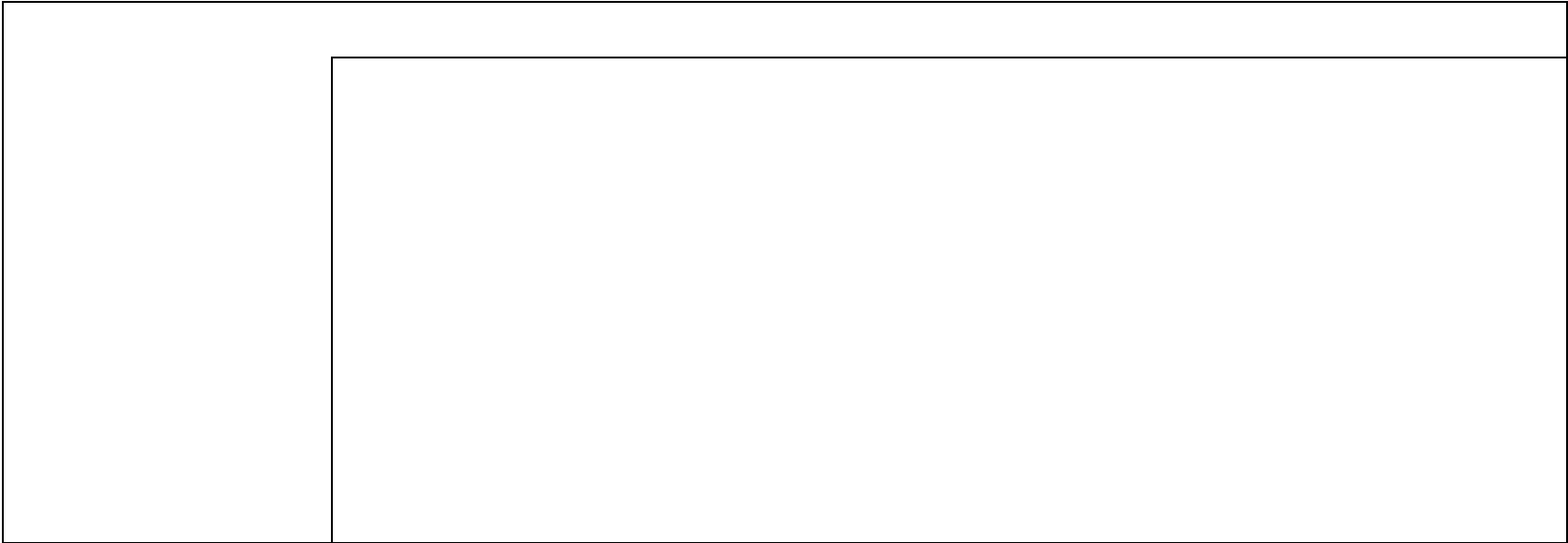
WMO No. 727770



	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	-41294	0	-8694
FEB	0	-34030	0	-7478
MAR	0	-28436	0	-6199
APR	44	-18192	0	-3896
MAY	253	-11029	0	-1489
JUN	926	-5383	16	-291
JUL	2231	-3182	107	-165
AUG	1823	-4072	14	-210
SEP	490	-10196	1	-1034
OCT	51	-18100	0	-3320
NOV	0	-30581	0	-6727
DEC	0	-38668	0	-8199
ANN	5818	-243163	138	-47702

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

No Solar Radiation
Data Available

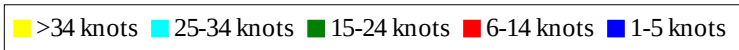
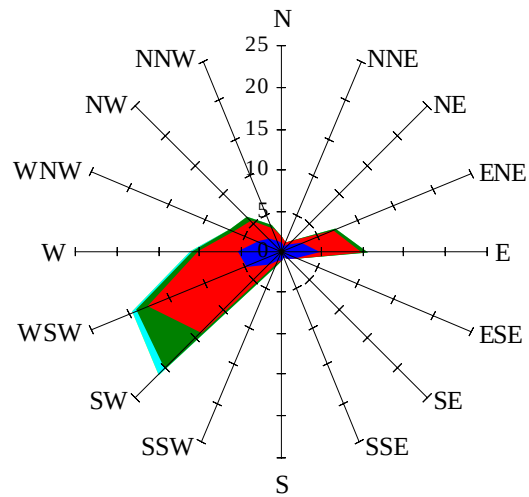


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

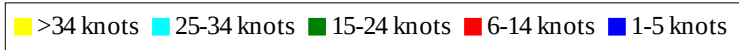
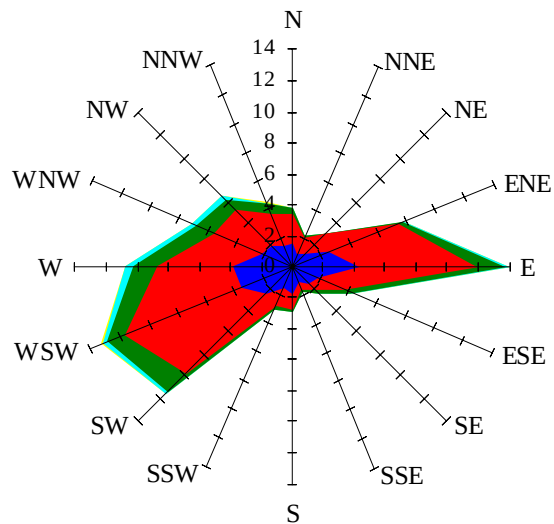
Labels of Percent Frequency on North Axis



Percent Calm = 4.58

Wind Summary - March, April, and May

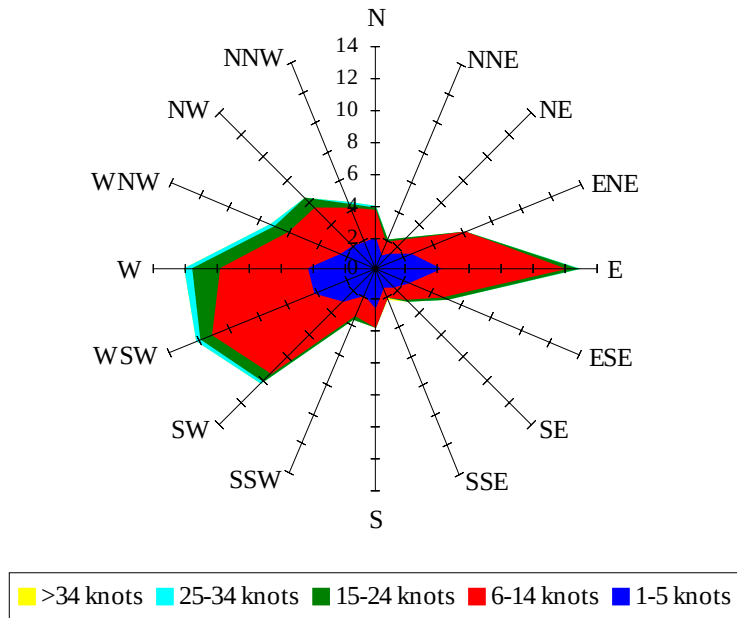
Labels of Percent Frequency on North Axis



Percent Calm = 3.23

Wind Summary - June, July, and August

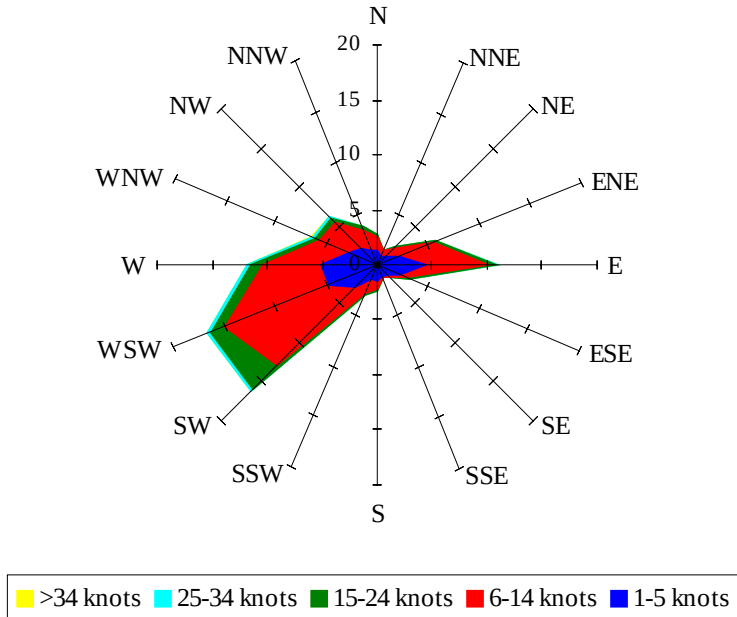
Labels of Percent Frequency on North Axis



Percent Calm = 3.68

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 4.71