

BEMIDJI MN

Latitude = 47.50 N

Longitude = 94.93 W

Period of Record = 1973 to 1996

WMO No. 727550

Elevation = 1378 feet

Average Pressure = 28.48 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	95	73	95	10.8	S
0.4% Occurrence	89	71	94	10.6	S
1.0% Occurrence	86	70	89	10.2	S
2.0% Occurrence	82	67	80	10.5	S
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	-12	-12	2	7.4	WNW
99.0% Occurrence	-19	-19	1	6.3	W
99.6% Occurrence	-26	-26	1	4.6	W
Median of Extreme Lows	-33	-33	1	3.8	W
	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	78	89	130	10.5	S
0.4% Occurrence	74	85	113	9.4	S
1.0% Occurrence	72	83	106	9.5	S
2.0% Occurrence	70	80	99	9.5	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	133	83	0.84	7.3	SSE
0.4% Occurrence	117	80	0.74	8.6	S
1.0% Occurrence	109	78	0.69	8.2	S
2.0% Occurrence	101	76	0.65	8.5	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		11	308	65	386

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
4	3.0	90	0.3 + 0.2
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 (#)
43.1	N/A	N/A	61

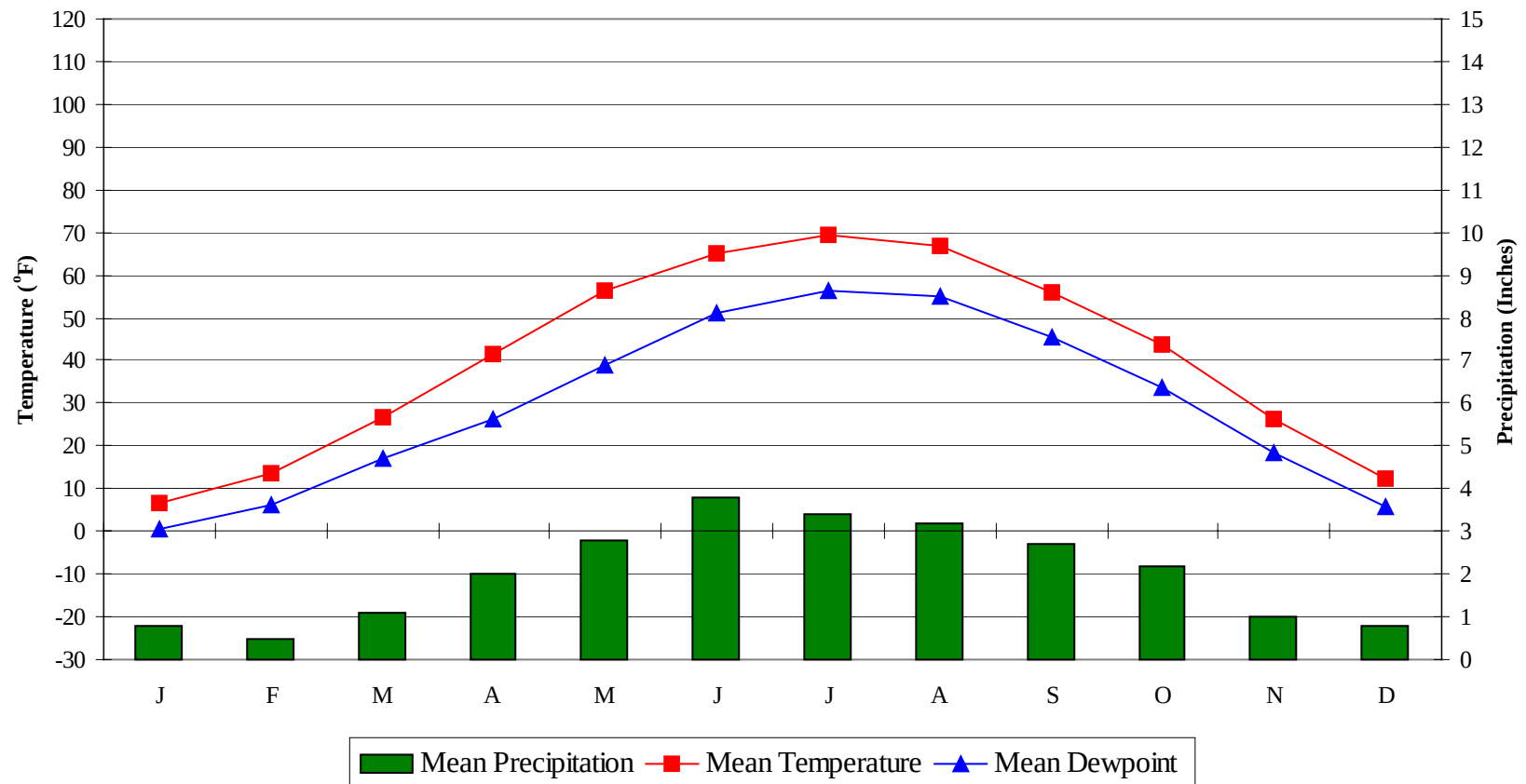
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

BEMIDJI

MN

WMO No. 727550

Average Annual Climate

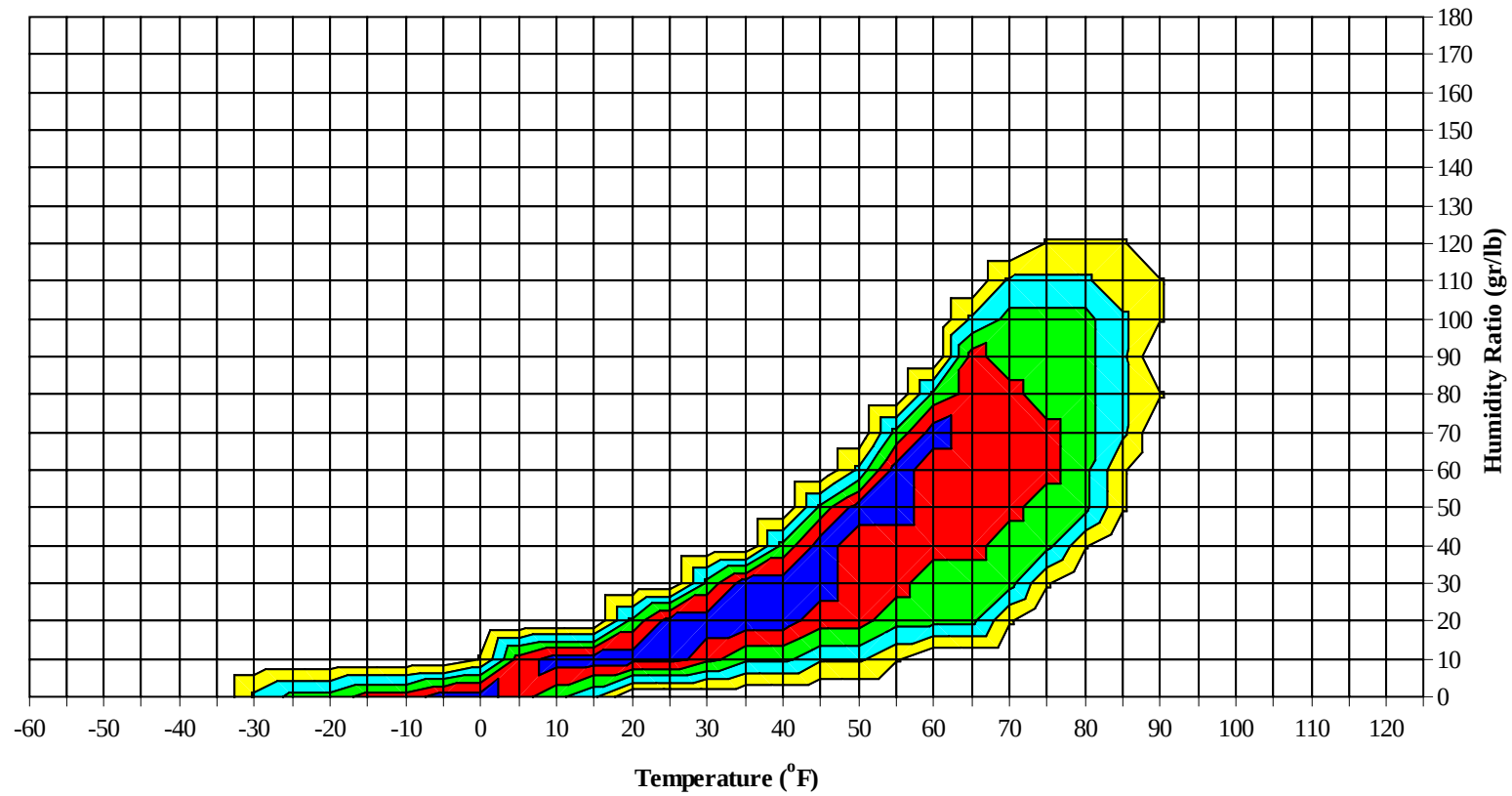


BEMIDJI

MN

WMO No. 727550

Long Term Psychrometric Summary

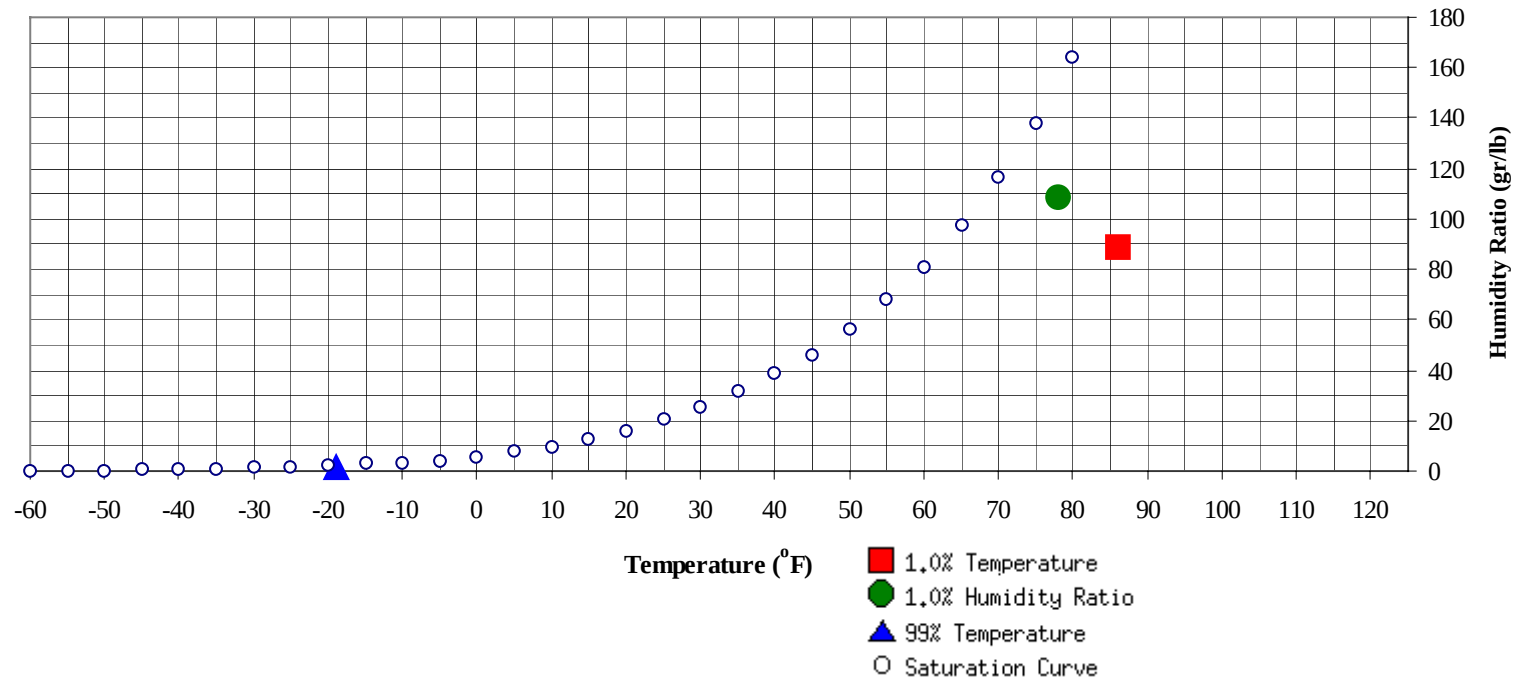


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

BEMIDJI MN

WMO No. 727550

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)
	-19	1.3	-4.4		108.5	78.1	71	68	35.7

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	86	88.8	69.7	34.6

BEMIDJI

MN

WMO No. 727550

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		
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69												0	0	0	55.0
60 / 64												1	0	1	53.2
55 / 59							0		0	42.3		4	2	6	46.3
50 / 54		0		0	41.3		1	0	1	42.1	0	5	4	10	43.4
45 / 49		1	0	1	38.4		3	1	4	40.0	1	17	12	31	39.5
40 / 44	0	2	1	3	36.3	0	7	5	12	36.4	4	26	20	50	36.6
35 / 39	1	6	5	12	32.9	3	14	12	29	33.1	22	41	42	104	33.3
30 / 34	5	13	14	33	29.5	16	25	24	66	29.8	44	43	45	133	29.4
25 / 29	18	21	21	60	25.4	20	25	27	73	24.9	43	36	37	116	24.7
20 / 24	20	26	23	70	20.5	24	26	23	74	20.3	30	23	27	80	19.8
15 / 19	23	29	28	80	15.6	23	26	28	77	15.3	24	20	20	64	15.3
10 / 14	22	29	26	77	10.5	22	24	23	69	10.4	20	13	16	50	10.3
5 / 9	30	29	26	85	5.9	20	21	20	62	5.7	16	10	8	35	5.6
0 / 4	24	24	22	70	0.8	18	18	17	53	0.9	15	5	6	26	1.0
-5 / -1	16	17	16	49	-3.3	14	10	11	35	-3.2	8	2	3	13	-3.3
-10 / -6	20	20	23	63	-7.6	20	11	14	46	-7.7	8	2	3	13	-7.8
-15 / -11	18	13	14	44	-12.3	16	6	7	30	-12.3	7	1	1	9	-12.4
-20 / -16	16	10	13	40	-17.1	12	3	5	20	-16.7	4	0	0	4	-17.1
-25 / -21	13	6	8	27	-21.8	7	2	2	10	-21.3	1			1	-21.4
-30 / -26	12	3	3	18	-26.9	4	1	1	6	-26.8	0			0	-27.0
-35 / -31	8	1	1	10	-31.9	1	1	1	3	-30.9					
-40 / -36	1	0		1	-35.5	1	0	0	1	-36.8					
-45 / -41	0	0		0		1			1						

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.

BEMIDJI

MN

WMO No. 727550

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		
100 / 104															
95 / 99		0		0	63.0							0	0	0	70.8
90 / 94		0	0	0	60.6		1	0	1	66.4		3	1	4	69.1
85 / 89		0	0	0	59.2		3	1	4	65.3		10	6	16	69.0
80 / 84		1	1	2	59.5	0	10	7	16	62.4	0	23	14	38	66.0
75 / 79		4	2	6	57.1	0	19	13	32	59.8	4	38	28	69	63.4
70 / 74		6	4	10	54.5	1	29	21	51	56.8	11	47	40	98	60.8
65 / 69	0	9	6	16	51.7	7	35	28	70	54.3	30	46	46	122	58.4
60 / 64	3	17	12	31	48.4	20	40	39	100	51.9	53	34	50	138	56.0
55 / 59	3	23	16	41	45.0	31	39	42	112	48.9	56	25	32	113	52.4
50 / 54	8	31	25	63	42.4	42	32	37	110	45.5	46	10	17	73	48.6
45 / 49	16	36	35	88	39.6	49	22	27	98	41.9	23	2	6	31	44.2
40 / 44	27	36	35	98	36.4	38	11	18	67	38.0	12	0	1	13	40.3
35 / 39	42	36	42	119	33.1	31	6	11	49	34.1	5		0	5	35.6
30 / 34	57	24	33	115	29.1	18	2	2	22	30.1	1			1	31.5
25 / 29	44	11	17	72	24.6	8	0	1	10	25.9	0			0	
20 / 24	20	3	6	30	20.0	1		0	1	21.9	0			0	17.0
15 / 19	11	2	2	15	15.4										
10 / 14	6	1	1	8	10.7										
5 / 9	1	1	0	2	6.0										
0 / 4	1		1	2	0.5										
-5 / -1	1		0	1	-2.7										
-10 / -6	0			0	-5.6										
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															

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.

BEMIDJI

MN

WMO No. 727550

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		
100 / 104		0		0	75.0			0	0	73.0					
95 / 99		1	1	2	73.0		2	0	2	72.6		0	0	0	74.5
90 / 94		6	3	10	73.8	0	4	2	6	72.5		1	0	1	72.4
85 / 89	0	19	10	28	71.2	0	12	5	18	71.0		2	0	2	71.0
80 / 84	1	40	28	69	67.9	0	28	17	46	67.9		6	2	9	67.2
75 / 79	8	53	42	103	65.4	4	46	32	81	65.6	0	13	8	22	63.9
70 / 74	24	58	51	132	62.8	18	58	49	125	63.0	3	23	16	43	61.3
65 / 69	46	42	50	137	60.6	39	47	50	136	60.7	9	32	24	65	58.4
60 / 64	73	22	40	134	57.9	66	32	48	146	57.4	19	42	41	102	55.1
55 / 59	58	5	18	80	54.0	58	14	28	100	53.3	34	48	45	126	51.5
50 / 54	28	2	7	36	49.9	38	4	12	54	49.3	48	39	47	134	48.1
45 / 49	9		0	9	45.3	21	0	3	24	45.1	49	21	30	99	43.7
40 / 44	1		0	1	40.9	5		0	5	41.2	37	10	18	66	39.4
35 / 39						1			1	36.4	26	3	7	36	35.1
30 / 34											12	1	1	14	30.5
25 / 29											3		0	3	26.6
20 / 24											0			0	23.5
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															

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.

BEMIDJI

MN

WMO No. 727550

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		
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84		1	0	1	58.8										
75 / 79		2	0	2	57.7										
70 / 74		4	1	5	56.7		0		0	53.5					
65 / 69	0	10	4	15	54.6		1	0	1	53.2					
60 / 64	2	20	11	34	52.2		2	0	2	49.5					
55 / 59	8	27	21	57	49.2	0	3	1	4	47.5					
50 / 54	17	36	33	86	45.6	1	7	4	13	44.7		1	0	1	45.9
45 / 49	31	47	43	122	42.0	4	10	9	23	41.4	0	2	0	2	39.5
40 / 44	45	41	46	131	38.4	7	18	12	36	37.4	0	3	1	4	35.6
35 / 39	53	34	41	128	34.3	16	29	23	68	33.7	1	7	5	14	32.8
30 / 34	53	18	30	101	30.0	39	44	44	127	29.6	13	21	21	55	29.6
25 / 29	23	5	11	40	25.4	49	45	49	142	25.1	28	33	31	92	25.3
20 / 24	8	2	4	14	20.4	35	30	31	96	20.3	28	33	33	95	20.4
15 / 19	4	1	1	6	16.1	31	24	28	83	15.6	34	36	32	101	15.9
10 / 14	2	0	0	2	11.2	22	14	17	52	10.5	28	24	26	78	10.8
5 / 9	0			0	7.0	14	7	11	32	5.9	24	23	23	70	5.9
0 / 4						8	5	5	18	1.0	22	22	22	66	1.0
-5 / -1						5	2	3	10	-3.0	15	13	15	43	-3.2
-10 / -6						4	1	2	7	-7.2	16	14	17	47	-7.7
-15 / -11						3	1	1	5	-11.8	15	7	11	33	-12.3
-20 / -16						1	0	0	1	-16.6	12	6	7	25	-16.8
-25 / -21						0			0	-20.0	7	2	3	12	-21.6
-30 / -26											3	1	1	4	-26.7
-35 / -31											1	0	0	1	-32.3
-40 / -36											0	0		0	-35.6
-45 / -41															

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.

BEMIDJI MN

WMO No. 727550

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

Period of Record = 1973 to 1996

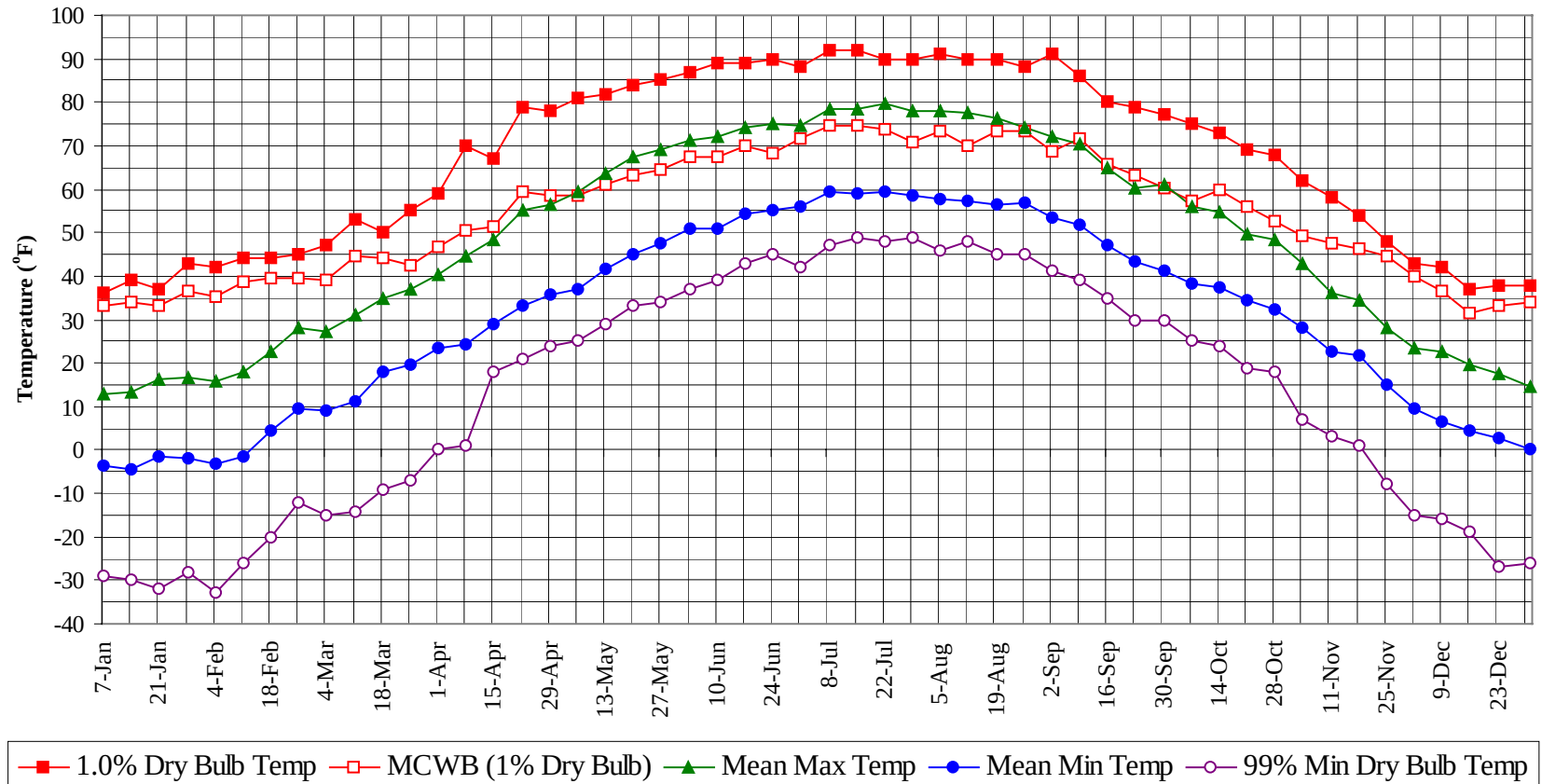
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		0	0	0	74.5
95 / 99		2	1	3	72.6
90 / 94	0	15	6	21	71.9
85 / 89	0	46	22	68	70.2
80 / 84	1	109	68	178	66.8
75 / 79	16	174	121	311	64.1
70 / 74	60	223	177	460	61.4
65 / 69	143	221	202	566	58.6
60 / 64	252	211	232	695	55.3
55 / 59	263	187	197	647	51.0
50 / 54	243	167	178	588	46.6
45 / 49	214	162	161	536	41.9
40 / 44	183	153	155	491	37.8
35 / 39	203	175	187	565	33.7
30 / 34	252	193	220	665	29.6
25 / 29	227	178	204	608	25.0
20 / 24	158	144	155	457	20.3
15 / 19	140	136	149	426	15.6
10 / 14	114	103	116	333	10.5
5 / 9	98	91	94	282	5.8
0 / 4	81	74	78	233	0.9
-5 / -1	55	44	51	150	-3.2
-10 / -6	65	48	63	176	-7.7
-15 / -11	53	27	36	116	-12.3
-20 / -16	43	20	27	89	-17.0
-25 / -21	26	10	13	49	-21.7
-30 / -26	19	5	5	29	-26.8
-35 / -31	10	2	1	13	-31.8
-40 / -36	3	1	0	3	-35.7
-45 / -41	1	0		1	

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.

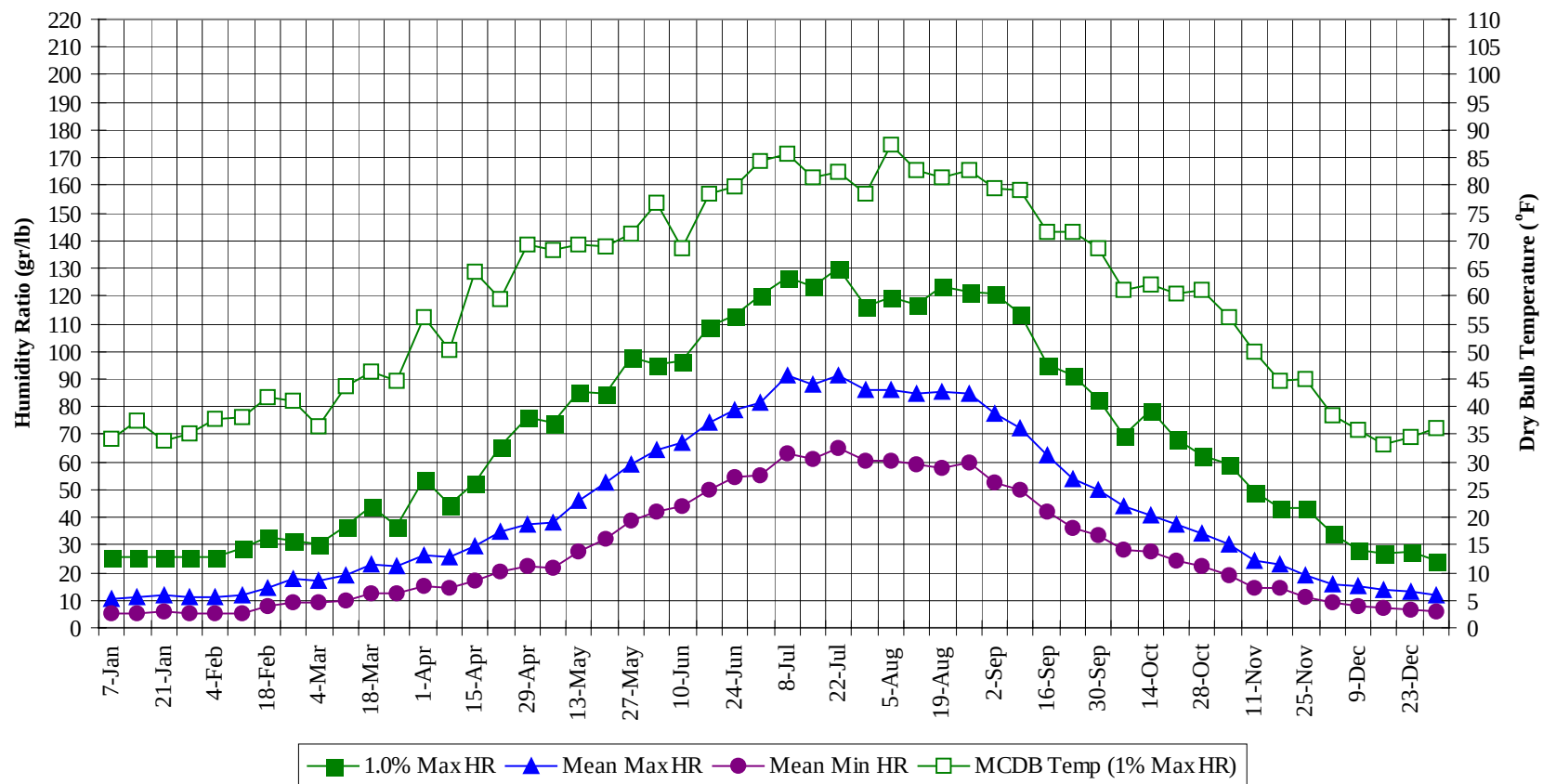
BEMIDJI MN

WMO No. 727550

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

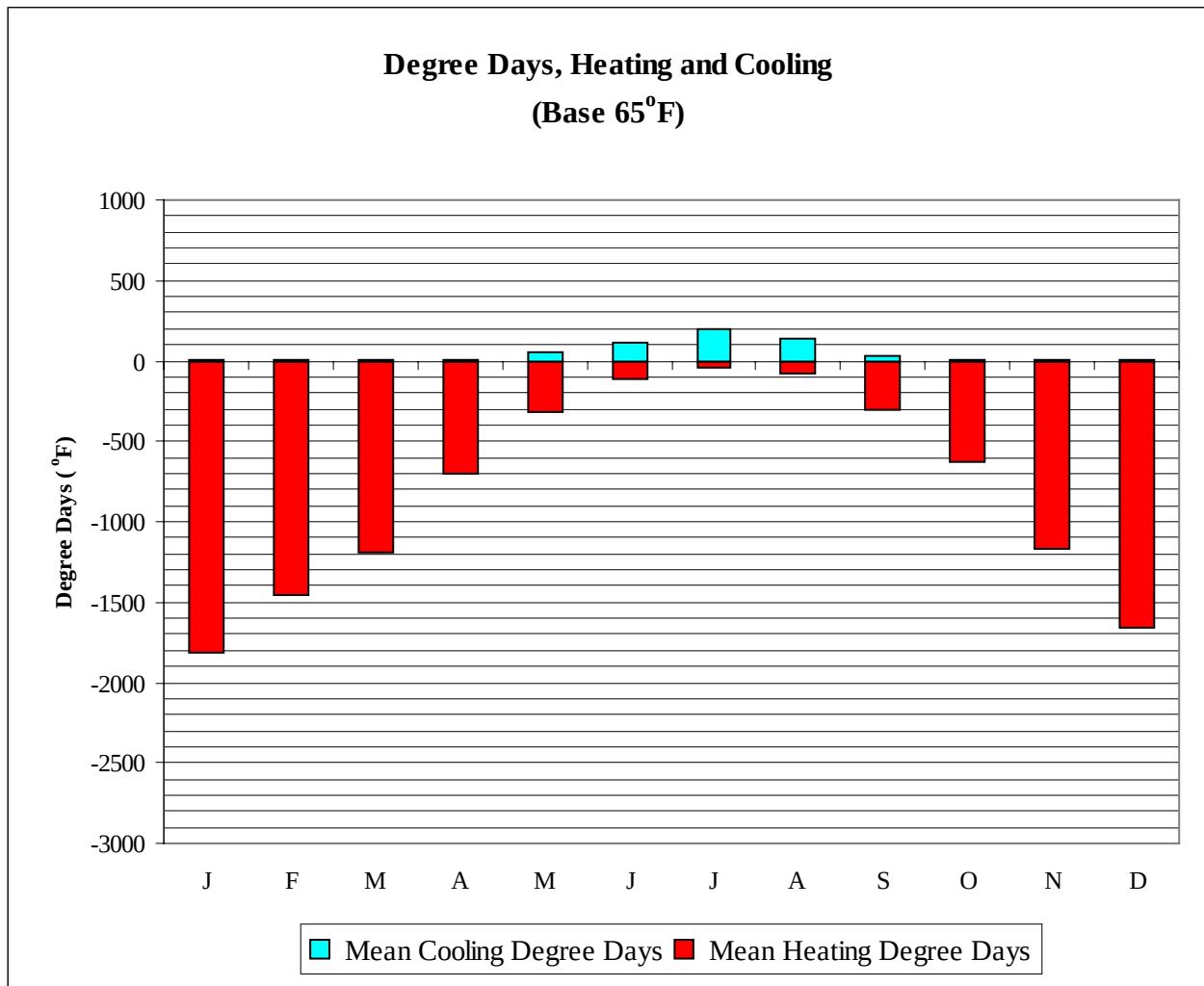


BEMIDJI**MN****WMO No. 727550****Long Term Dry Bulb Temperature and Humidity Summary**

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	36.0	33.3	13.0	-3.7	-29.0	25.9	34.2	10.5	5.4
14-Jan	39.0	34.1	13.4	-4.7	-30.0	25.9	37.3	10.9	4.9
21-Jan	37.0	33.3	16.3	-1.4	-32.0	25.9	33.9	11.8	5.6
28-Jan	43.0	36.4	16.9	-1.9	-28.0	25.9	35.2	11.3	5.2
4-Feb	42.0	35.5	15.9	-3.2	-33.0	25.9	37.7	11.3	5.5
11-Feb	44.0	38.6	18.0	-1.7	-26.0	28.7	38.2	12.1	5.4
18-Feb	44.0	39.6	22.6	4.4	-20.0	32.9	41.7	14.8	7.7
25-Feb	45.0	39.4	28.0	9.6	-12.0	31.5	41.0	17.8	9.0
4-Mar	47.0	39.1	27.3	8.9	-15.0	30.1	36.4	16.8	9.0
11-Mar	53.0	44.8	30.9	11.2	-14.0	37.1	43.5	19.0	9.7
18-Mar	50.0	44.4	34.8	18.1	-9.0	44.1	46.3	22.7	12.8
25-Mar	55.0	42.6	37.0	19.5	-7.0	37.1	44.7	22.5	12.6
1-Apr	59.0	46.6	40.4	23.4	0.0	53.9	56.0	26.1	15.3
8-Apr	70.0	50.6	44.5	24.3	1.0	44.8	50.2	25.5	14.3
15-Apr	67.0	51.3	48.5	29.0	18.0	52.5	64.2	29.6	16.8
22-Apr	79.0	59.5	55.2	33.0	21.0	65.8	59.4	34.6	20.1
29-Apr	78.0	58.4	56.4	35.7	24.0	76.3	69.3	37.3	22.2
6-May	81.0	58.8	59.4	36.8	25.0	74.2	68.3	38.1	21.8
13-May	82.0	60.9	63.7	41.5	29.0	85.4	69.3	46.0	27.9
20-May	84.0	63.4	67.6	45.2	33.0	84.7	69.1	52.5	32.3
27-May	85.0	64.7	69.1	47.6	34.0	98.0	71.2	59.1	38.6
3-Jun	87.0	67.3	71.4	50.9	37.0	95.2	76.8	64.3	42.1
10-Jun	89.0	67.4	72.3	51.1	39.0	96.6	68.5	66.9	43.8
17-Jun	89.0	70.0	74.2	54.3	43.0	109.2	78.5	74.1	50.1
24-Jun	90.0	68.5	75.1	55.3	45.0	112.7	79.9	78.9	54.5
1-Jul	88.0	71.7	74.8	56.0	42.0	120.4	84.3	81.8	55.5
8-Jul	92.0	74.8	78.6	59.3	47.0	126.7	85.6	91.5	63.2
15-Jul	92.0	74.7	78.3	58.8	49.0	123.2	81.4	87.8	61.2
22-Jul	90.0	73.6	79.6	59.4	48.0	130.2	82.3	91.0	64.9
29-Jul	90.0	71.0	78.0	58.8	49.0	116.2	78.4	86.1	60.5
5-Aug	91.0	73.6	78.0	57.7	46.0	119.7	87.2	86.3	60.2
12-Aug	90.0	70.1	77.8	57.3	48.0	116.9	82.8	84.7	58.8
19-Aug	90.0	73.2	76.4	56.5	45.0	123.2	81.6	85.5	57.8
26-Aug	88.0	73.6	74.4	57.0	45.0	121.8	82.6	85.0	59.6
2-Sep	91.0	68.5	72.2	53.6	41.0	121.1	79.4	77.4	52.8
9-Sep	86.0	71.7	70.2	51.9	39.0	113.4	79.1	72.2	49.8
16-Sep	80.0	65.6	64.9	47.0	35.0	95.2	71.6	62.2	41.9
23-Sep	79.0	63.2	60.2	43.5	30.0	91.0	71.6	53.5	36.2
30-Sep	77.0	60.3	60.9	41.4	30.0	82.6	68.8	50.2	33.2
7-Oct	75.0	57.1	55.9	38.4	25.0	69.3	60.9	43.9	28.4
14-Oct	73.0	60.0	54.6	37.5	24.0	79.1	62.0	41.0	27.4
21-Oct	69.0	55.9	49.7	34.2	19.0	68.6	60.5	37.3	24.1
28-Oct	68.0	52.4	48.3	32.2	18.0	62.3	61.2	34.2	22.0
4-Nov	62.0	49.4	42.8	28.2	7.0	58.8	56.0	30.2	19.3
11-Nov	58.0	47.8	36.3	22.8	3.0	49.0	49.8	24.1	14.7
18-Nov	54.0	46.3	34.6	21.6	1.0	43.4	44.6	23.1	14.4
25-Nov	48.0	44.4	28.0	15.0	-8.0	43.4	45.0	19.0	11.1
2-Dec	43.0	40.1	23.4	9.3	-15.0	34.3	38.5	15.9	9.0
9-Dec	42.0	36.6	22.6	6.7	-16.0	28.0	35.8	14.9	7.6
16-Dec	37.0	31.7	19.7	4.2	-19.0	26.6	33.1	13.8	7.1
23-Dec	38.0	33.1	17.4	2.8	-27.0	27.3	34.6	12.9	6.8
31-Dec	38.0	34.0	14.7	0.3	-26.0	24.5	36.3	11.5	5.9

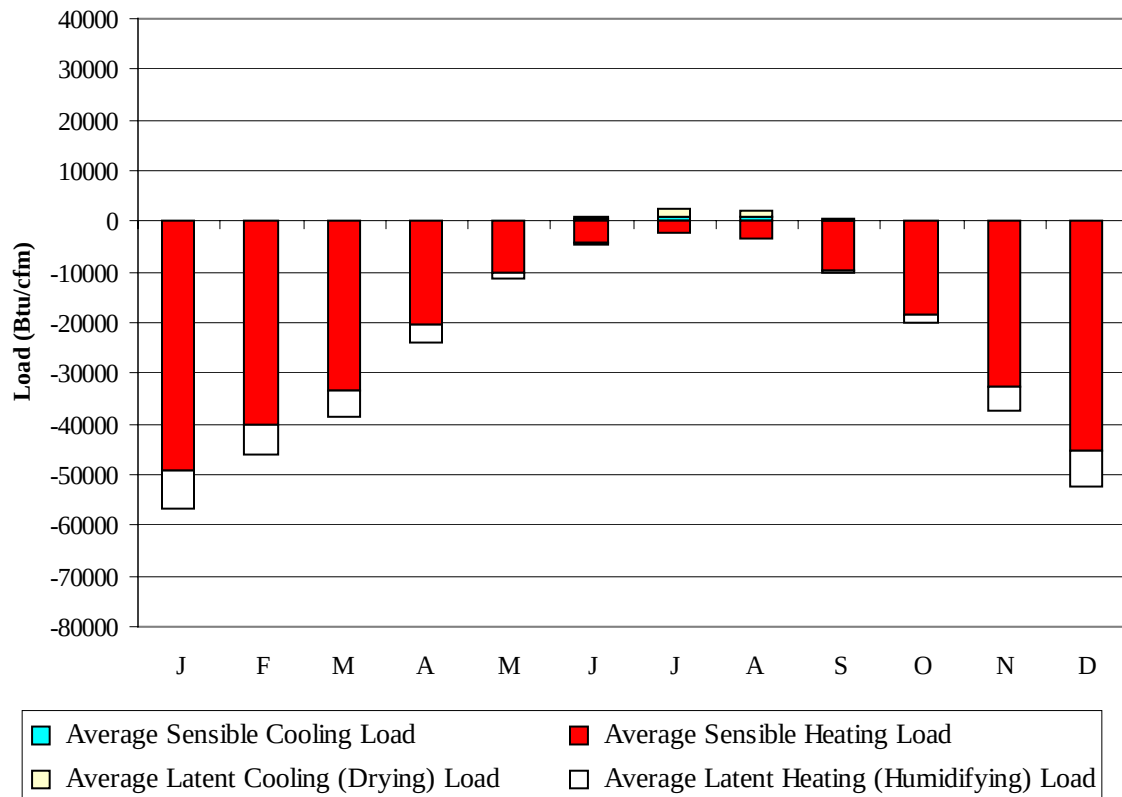
BEMIDJI MN

WMO No. 727550



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1812
FEB	0	1455
MAR	0	1196
APR	7	699
MAY	51	315
JUN	111	115
JUL	193	47
AUG	142	83
SEP	35	305
OCT	3	623
NOV	0	1165
DEC	0	1654
ANN	542	9469

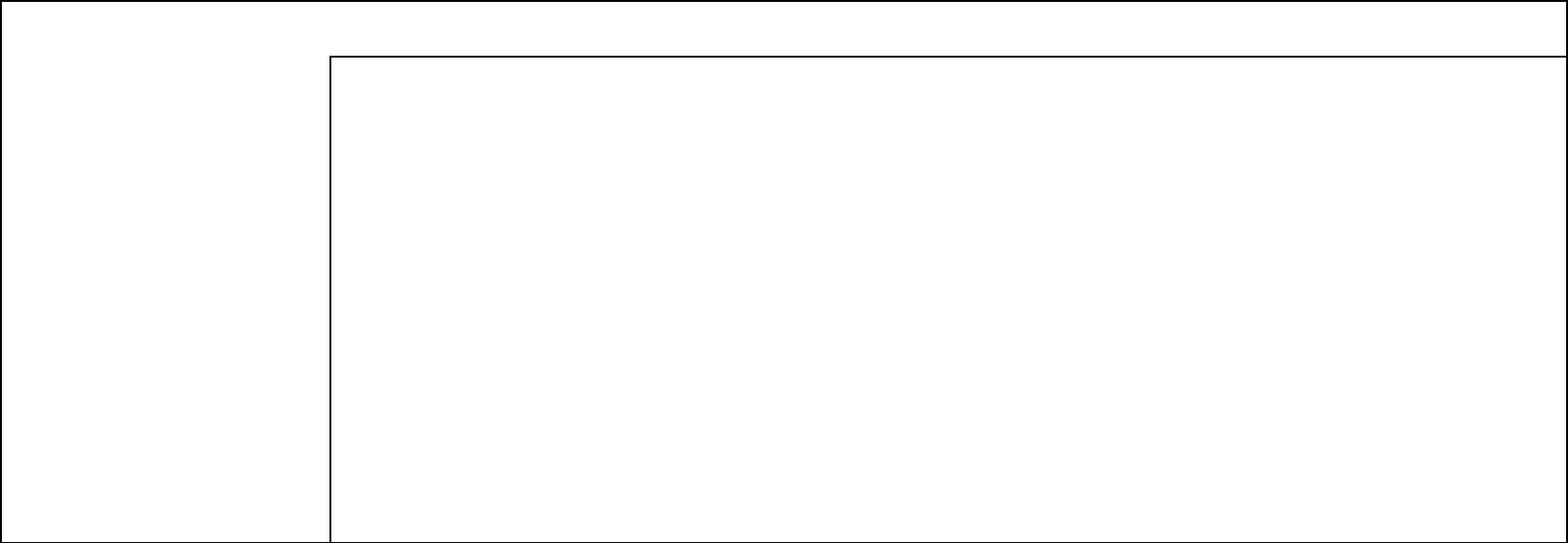
Average Ventilation and Infiltration Loads
(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)



	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	-49378	0	-7241
FEB	0	-39935	0	-6131
MAR	0	-33450	0	-5125
APR	24	-20484	1	-3291
MAY	204	-10146	54	-1073
JUN	560	-4393	499	-50
JUL	1114	-2106	1433	-2
AUG	749	-3390	1188	-7
SEP	135	-9904	231	-282
OCT	7	-18405	1	-1597
NOV	0	-32566	0	-4861
DEC	0	-45321	0	-6853
ANN	2793	-269478	3407	-36513

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

No Solar Radiation
Data Available

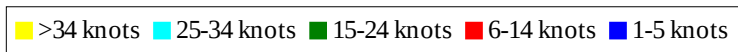
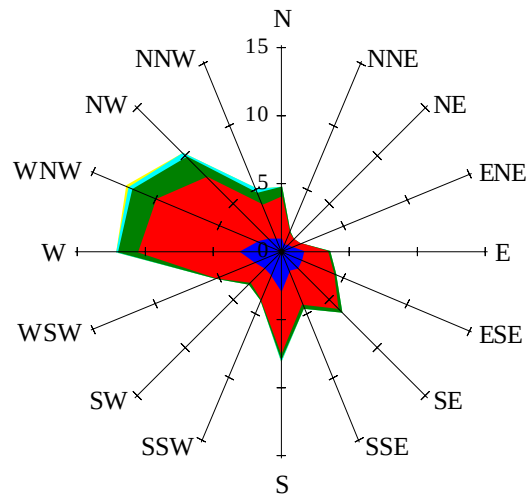


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

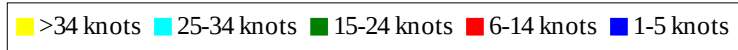
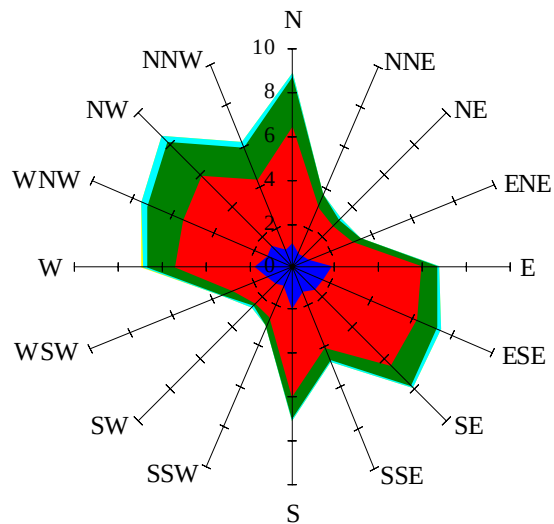
Labels of Percent Frequency on North Axis



Percent Calm = 13.25

Wind Summary - March, April, and May

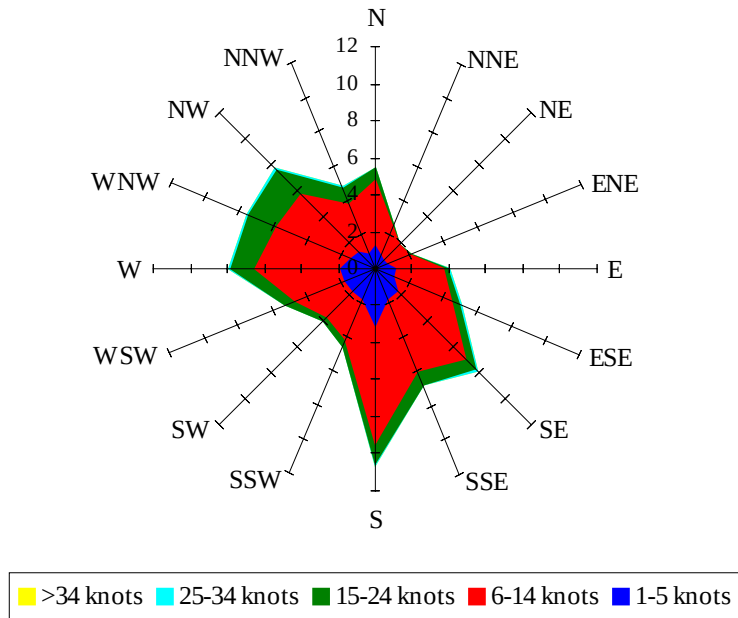
Labels of Percent Frequency on North Axis



Percent Calm = 9.89

Wind Summary - June, July, and August

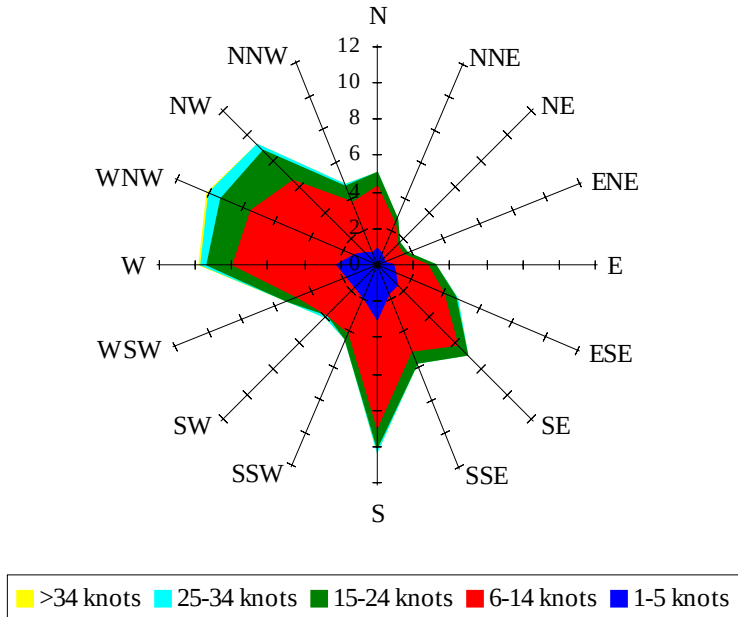
Labels of Percent Frequency on North Axis



Percent Calm = 12.10

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 10.68