

SHERIDAN WY

Latitude = 44.77 N

Longitude = 106.90 W

Period of Record = 1973 to 1996

WMO No. 726660

Elevation = 3967 feet

Average Pressure = 25.90 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	99	65	53	9.9	E
0.4% Occurrence	95	64	51	8.8	E
1.0% Occurrence	91	62	51	8.7	N
2.0% Occurrence	88	62	52	8.6	N
Mean Daily Range	25	-	-	-	-
97.5% Occurrence	0	-1	4	6.3	W
99.0% Occurrence	-8	-9	3	5.2	W
99.6% Occurrence	-15	-15	2	4.4	NW
Median of Extreme Lows	-23	-23	1	3.4	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	69	88	90	7.7	E
0.4% Occurrence	67	86	81	8.0	SE
1.0% Occurrence	65	84	74	8.1	SE
2.0% Occurrence	63	82	67	8.1	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	108	77	0.62	6.9	S
0.4% Occurrence	90	73	0.52	7.6	WNW
1.0% Occurrence	83	73	0.49	7.7	SE
2.0% Occurrence	78	70	0.45	7.9	WNW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		61	545	1	40

Other Site Data

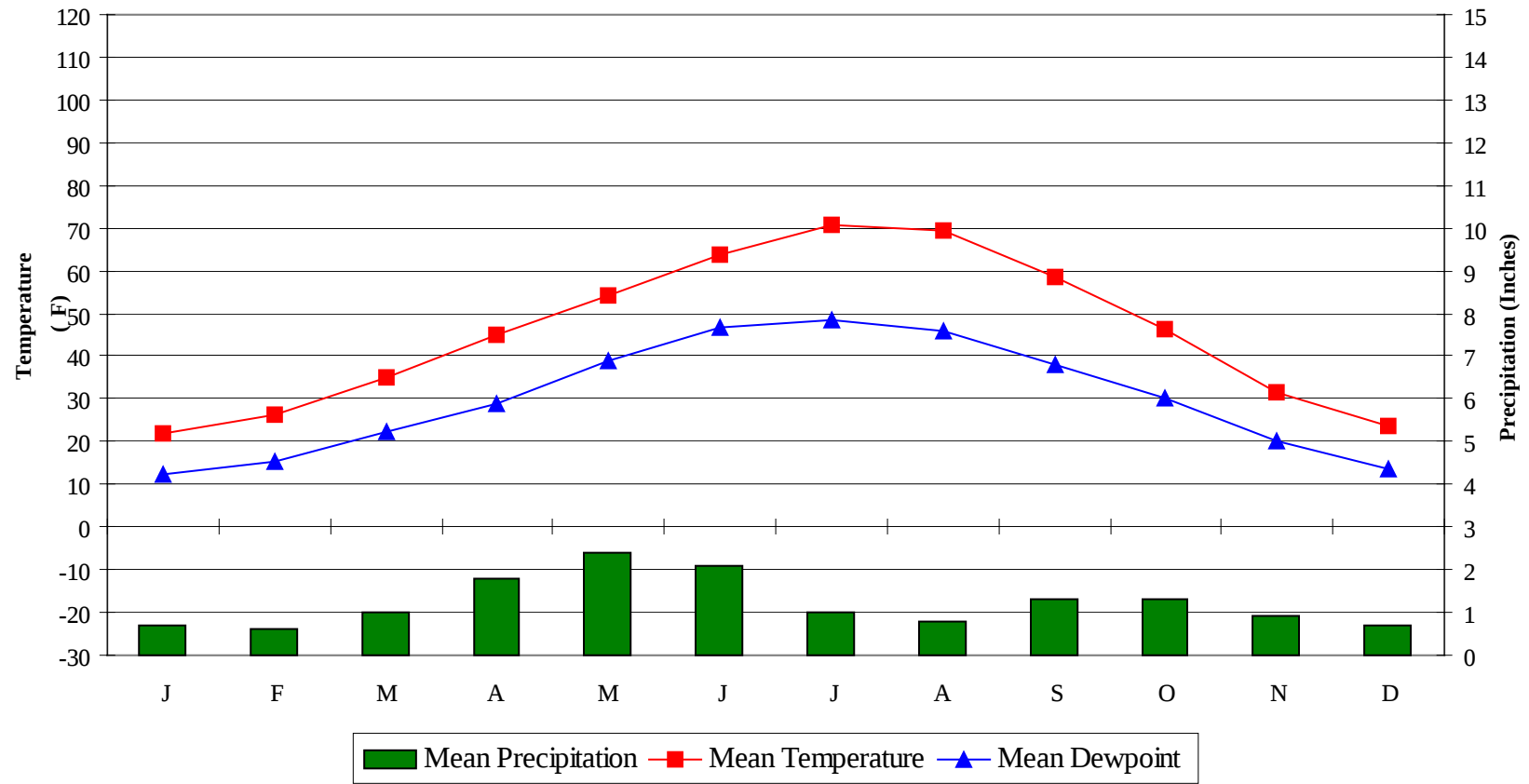
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
5	1.8	N/A	0.0 + 0.5
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
48.0	N/A	23	117

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

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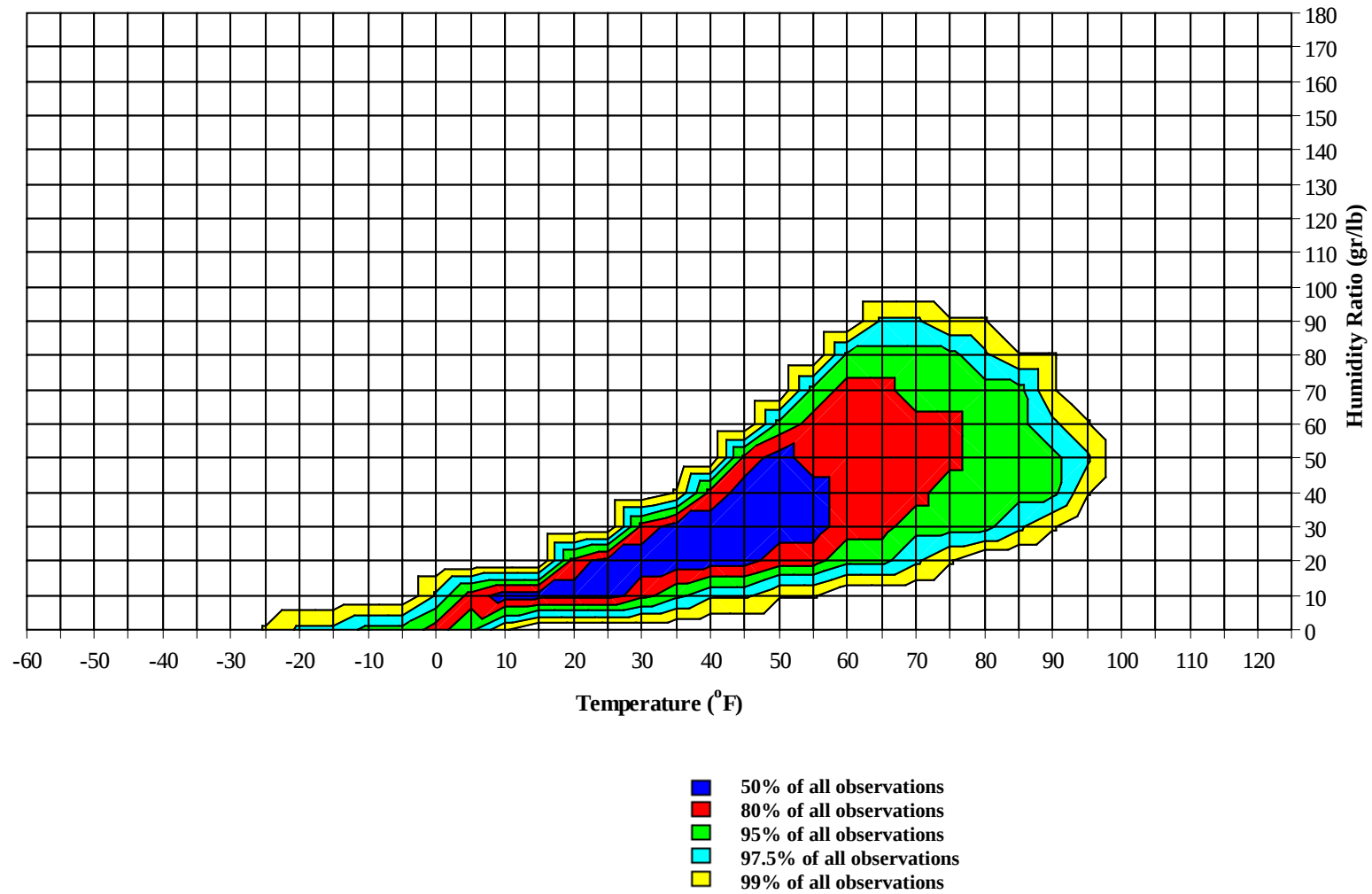
Average Annual Climate



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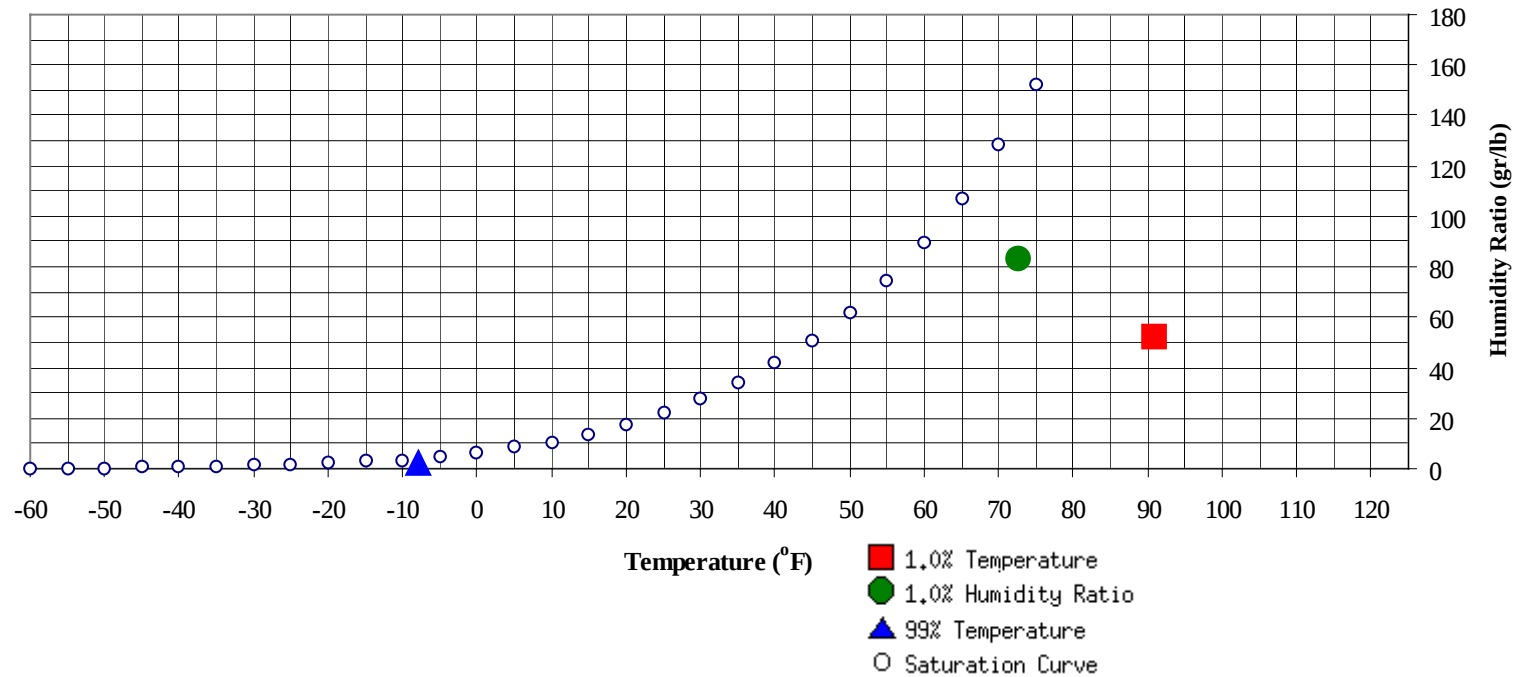
Long Term Psychrometric Summary



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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	-8	2.7	-1.5		83.3	72.7	62.8	57.9	30.5

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	91	52.6	62.7	30.1

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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		
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79							0		0	52.0		1	0	1	50.5
70 / 74							0	0	0	47.3		2	0	2	49.5
65 / 69		0	0	0	48.2		2	0	2	46.8	0	7	1	8	47.0
60 / 64	0	1	0	1	44.1	0	3	0	3	45.1	0	12	4	16	44.8
55 / 59	1	2	1	4	41.8	0	7	1	8	42.3	1	21	9	31	42.6
50 / 54	2	6	2	10	39.7	1	16	5	22	39.8	4	26	13	43	40.1
45 / 49	4	18	6	28	37.3	4	19	10	34	37.4	6	34	22	62	37.8
40 / 44	8	28	13	50	34.7	9	28	18	56	34.4	15	38	32	84	35.3
35 / 39	18	32	27	77	31.7	22	35	33	90	31.7	36	39	48	122	32.5
30 / 34	31	34	37	103	28.3	38	29	46	113	28.5	65	28	54	147	29.2
25 / 29	36	26	36	98	24.4	38	20	27	85	24.5	51	17	30	99	24.9
20 / 24	32	20	29	81	20.1	30	17	22	69	20.2	33	8	14	54	20.4
15 / 19	24	20	20	64	15.4	21	13	16	49	15.7	16	7	7	29	15.7
10 / 14	18	16	18	51	10.7	16	11	13	39	10.6	6	5	7	18	10.7
5 / 9	19	19	19	56	5.8	14	9	10	32	6.0	6	3	5	14	6.1
0 / 4	20	12	16	48	1.0	9	8	9	26	1.0	4	2	3	9	1.4
-5 / -1	10	7	9	26	-3.2	7	4	4	15	-3.2	2	0	1	3	-2.6
-10 / -6	10	5	9	24	-7.6	6	2	5	13	-7.6	1	0	0	1	-7.3
-15 / -11	7	2	4	13	-12.2	4	1	3	8	-12.3	1		0	1	-11.4
-20 / -16	4	1	2	7	-16.7	3	1	1	5	-16.9	0			0	-15.0
-25 / -21	2	0	0	2	-21.6	1	0	1	2	-21.7					
-30 / -26	0			0	-26.3	1	0	0	1	-26.7					
-35 / -31						0		0	0	-30.2					
-40 / -36															

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		
105 / 109															
100 / 104												1	0	1	67.4
95 / 99												3	1	4	64.4
90 / 94							1		1	60.4		7	2	9	63.6
85 / 89		0		0	56.5		3	1	4	59.1	0	16	5	21	62.6
80 / 84		3	0	3	55.2		10	3	14	58.0	1	32	13	46	61.7
75 / 79	0	7	2	9	53.5	0	20	7	27	57.2	3	41	20	64	59.7
70 / 74	0	15	4	19	51.4	1	29	13	44	55.2	9	45	29	83	57.9
65 / 69	1	22	10	33	49.3	3	39	19	61	53.0	18	39	37	95	55.8
60 / 64	3	27	13	43	47.0	11	39	27	78	50.5	36	28	41	105	53.7
55 / 59	7	31	21	59	44.5	23	36	41	99	48.4	53	15	40	109	51.3
50 / 54	13	32	31	76	42.1	44	33	47	124	45.9	58	9	29	96	48.2
45 / 49	28	29	36	93	39.7	59	19	40	117	43.0	38	3	15	56	44.1
40 / 44	44	28	39	111	36.8	54	10	28	92	39.2	17	2	5	24	39.9
35 / 39	51	22	36	110	33.7	35	6	15	56	34.6	5	0	1	6	35.5
30 / 34	50	16	25	92	29.8	16	2	5	23	30.6	0		0	0	31.8
25 / 29	26	6	14	45	25.2	2	0	1	3	25.5					
20 / 24	12	2	5	19	20.7	0			0	21.3					
15 / 19	4	0	1	5	16.4										
10 / 14	1		0	1	11.5										
5 / 9	0		0	0	6.3										
0 / 4	0		0	0	1.5										
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															

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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		
105 / 109		0		0	67.7										
100 / 104		2	0	2	65.6		1	0	1	68.2					
95 / 99		12	3	15	64.0		9	2	11	65.2		2	0	2	61.6
90 / 94	0	25	9	34	63.0		26	7	33	62.5		7	1	8	59.9
85 / 89	0	41	16	58	62.1	0	42	16	58	61.3	0	15	3	18	58.6
80 / 84	2	57	25	84	61.1	1	47	24	72	60.0	0	25	7	32	57.1
75 / 79	8	46	35	90	59.8	6	44	31	82	58.5	1	32	12	45	55.6
70 / 74	22	34	44	99	58.4	16	36	40	92	57.1	3	36	18	57	53.7
65 / 69	41	16	46	103	56.8	32	22	43	96	55.4	7	32	23	62	52.3
60 / 64	61	10	40	112	55.0	53	12	39	105	53.5	17	30	33	80	50.2
55 / 59	67	5	22	94	52.4	67	6	28	101	51.2	36	25	44	105	48.1
50 / 54	35	1	6	42	49.0	48	2	11	61	48.1	53	16	41	111	45.7
45 / 49	10	0	1	11	44.5	17	1	4	22	43.8	50	10	29	88	42.6
40 / 44	2		0	2	40.9	6	0	1	7	40.3	37	6	16	59	39.0
35 / 39	0			0	37.5	1			1	36.3	23	3	7	33	34.7
30 / 34						0			0	33.0	8	2	3	13	30.3
25 / 29											3	1	2	6	25.3
20 / 24											1	0	0	1	20.7
15 / 19											0		0	0	16.3
10 / 14											0		0	0	11.6
5 / 9											0			0	6.0
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															

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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		
105 / 109															
100 / 104															
95 / 99															
90 / 94		0		0	60.0										
85 / 89		1		1	56.6										
80 / 84		6	0	6	54.2										
75 / 79	0	11	1	12	52.8		0		0	51.0					
70 / 74	0	22	3	25	51.1		4		4	49.0		0		0	47.7
65 / 69	1	26	7	34	49.3	0	6	0	6	47.7		1	0	1	45.2
60 / 64	3	29	11	43	47.2	1	9	1	11	45.5	0	2	0	2	44.4
55 / 59	7	32	21	60	45.1	2	13	5	21	43.0	1	4	1	6	42.1
50 / 54	18	36	34	87	42.8	4	19	8	31	40.5	3	8	3	14	39.7
45 / 49	36	30	46	112	40.3	7	25	14	46	38.1	4	14	6	24	37.1
40 / 44	52	22	47	120	37.6	15	33	24	71	35.4	8	24	11	44	34.4
35 / 39	55	15	34	104	33.8	27	36	36	98	32.3	16	38	24	77	31.6
30 / 34	39	11	25	76	29.8	51	33	47	130	29.0	31	39	41	111	28.1
25 / 29	24	5	11	40	25.5	44	22	37	102	24.7	41	34	40	115	24.3
20 / 24	8	1	5	14	21.0	30	14	27	71	20.4	38	25	35	98	20.1
15 / 19	4	1	2	7	16.4	21	10	16	47	15.7	32	16	26	74	15.6
10 / 14	1	1	1	3	11.7	15	7	10	32	11.0	21	13	18	51	10.7
5 / 9	0	0	0	0	6.0	10	4	7	20	6.3	17	12	16	44	6.0
0 / 4	0	0	0	0	3.0	6	4	4	14	1.4	13	7	11	30	1.1
-5 / -1	0	0		0	-3.0	2	2	3	7	-3.0	6	3	5	14	-3.2
-10 / -6	0			0	-6.6	2	1	2	5	-7.4	5	4	6	15	-7.7
-15 / -11						2	0	0	2	-12.0	4	3	2	9	-11.9
-20 / -16						1			1	-15.7	2	2	2	6	-17.2
-25 / -21											2	1	2	5	-21.8
-30 / -26											2	0	1	3	-26.5
-35 / -31											1	0	0	1	-31.6
-40 / -36											0	0		0	-35.5

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

Period of Record = 1973 to 1996

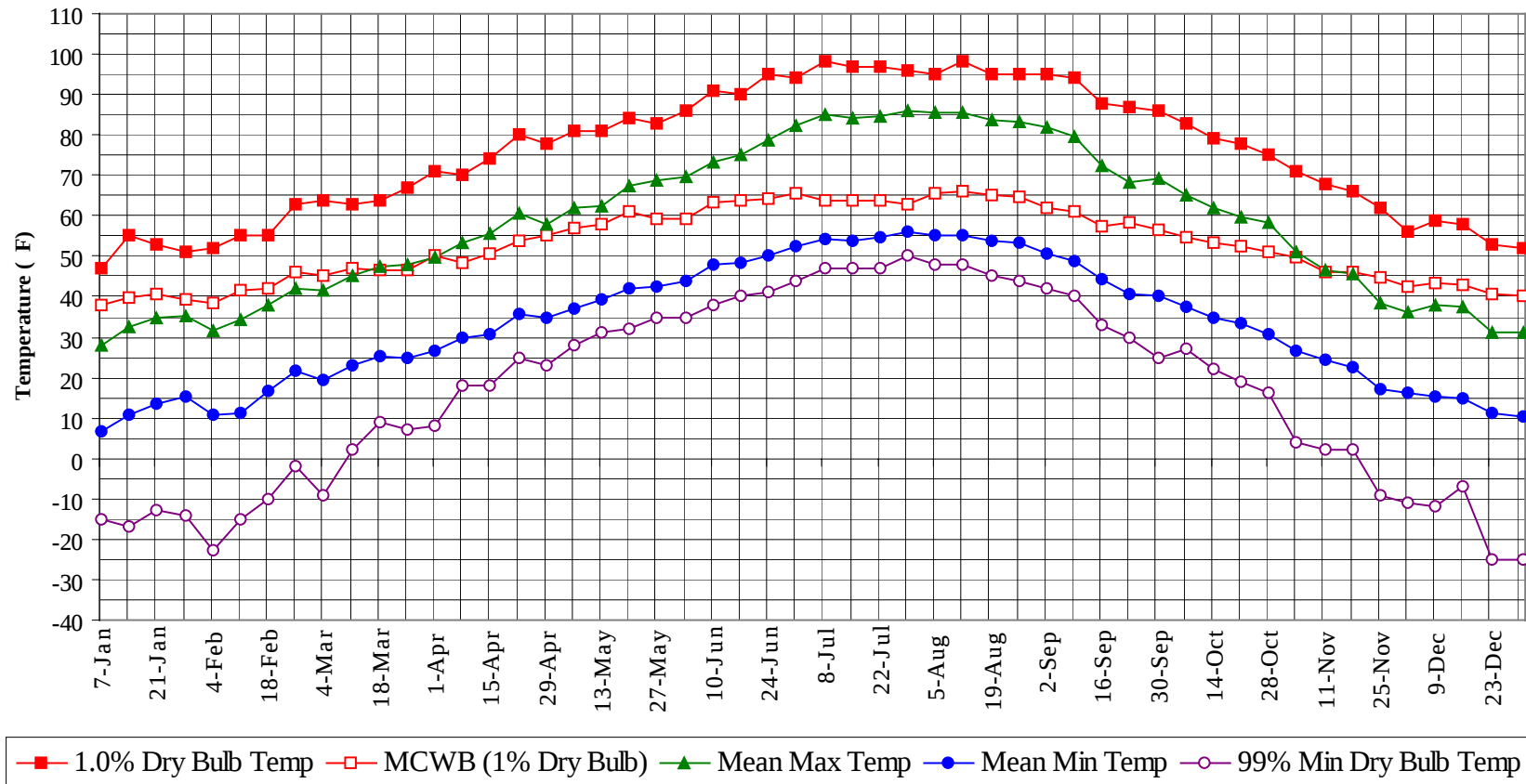
Temperature Range (°F)	Annual Totals				
	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		0		0	67.7
100 / 104		3	0	3	66.5
95 / 99		25	6	31	64.3
90 / 94	0	64	19	83	62.6
85 / 89	1	121	41	163	61.4
80 / 84	4	179	72	256	60.0
75 / 79	19	202	107	328	58.2
70 / 74	52	222	149	422	56.2
65 / 69	105	210	184	500	54.0
60 / 64	187	201	208	596	51.5
55 / 59	266	198	230	694	48.5
50 / 54	285	204	226	716	44.8
45 / 49	263	201	225	690	40.7
40 / 44	265	220	234	719	36.7
35 / 39	285	227	264	775	32.8
30 / 34	330	195	286	811	29.0
25 / 29	263	131	199	593	24.7
20 / 24	185	86	139	409	20.2
15 / 19	122	65	90	276	15.6
10 / 14	77	51	68	197	10.8
5 / 9	66	46	58	171	6.0
0 / 4	53	31	44	128	1.1
-5 / -1	29	16	23	68	-3.2
-10 / -6	26	13	23	61	-7.6
-15 / -11	18	6	11	34	-12.1
-20 / -16	10	4	6	20	-16.9
-25 / -21	6	1	4	11	-21.7
-30 / -26	3	0	1	4	-26.6
-35 / -31	1	0	0	1	-31.1
-40 / -36	0	0		0	-35.5

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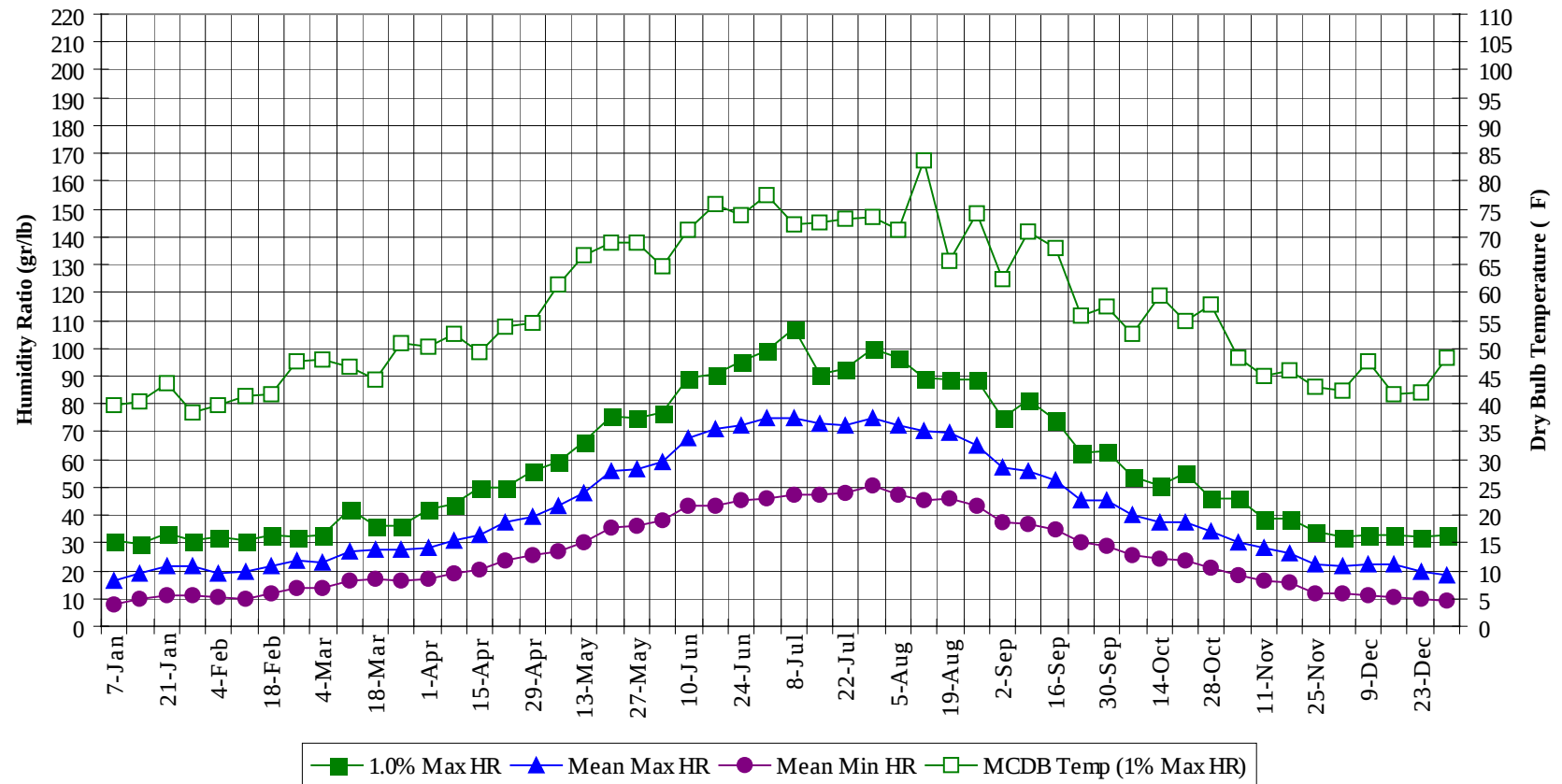
Annual Summary of Temperatures



SHERIDAN WY

WMO No. 726660

Long Term Humidity and Dry Bulb Temperature Summary



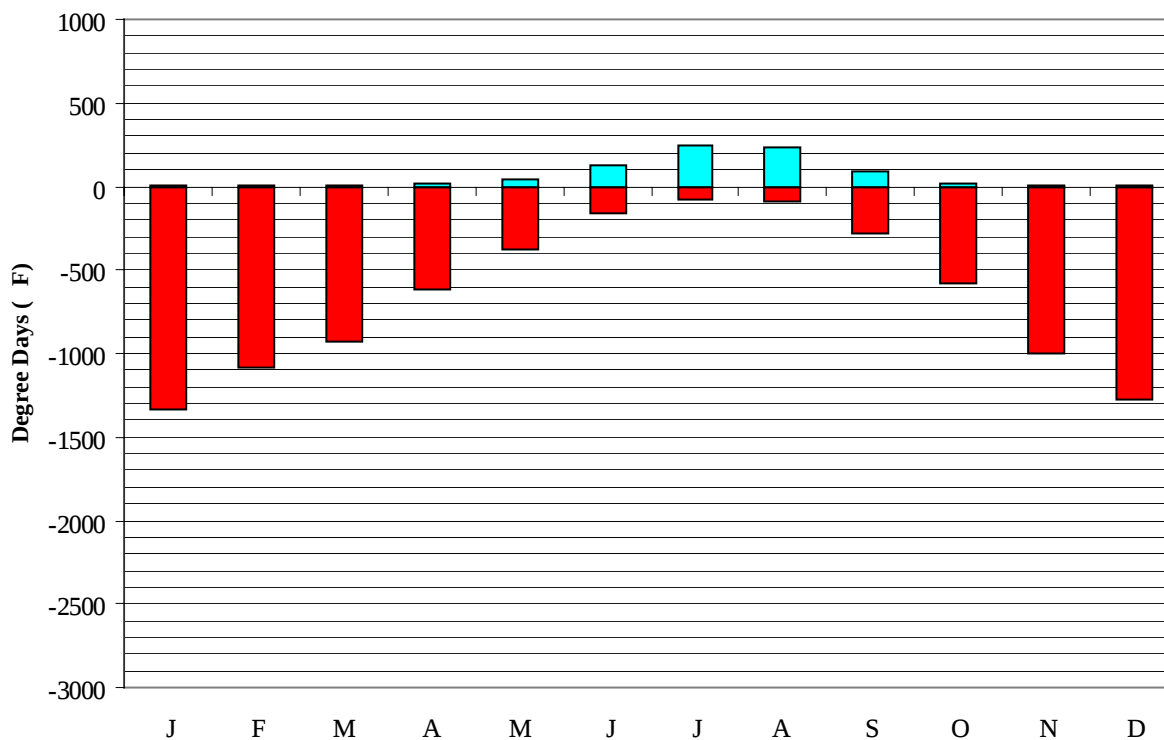
SHERIDAN**WY****WMO No. 726660****Long Term Dry Bulb Temperature and Humidity Summary**

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	47.0	37.8	27.9	6.8	-15.0	30.8	39.8	16.7	8.0
14-Jan	55.0	39.9	32.4	11.0	-17.0	29.4	40.4	19.1	9.8
21-Jan	53.0	40.9	34.9	13.7	-13.0	33.6	43.8	21.7	11.0
28-Jan	51.0	39.4	35.3	15.5	-14.0	30.8	38.5	21.5	11.5
4-Feb	52.0	38.4	31.6	10.8	-23.0	32.2	39.6	19.0	10.2
11-Feb	55.0	41.8	34.1	11.4	-15.0	30.8	41.2	19.7	10.1
18-Feb	55.0	41.9	37.8	16.6	-10.0	32.9	41.8	21.9	12.0
25-Feb	63.0	46.3	41.9	21.5	-2.0	32.2	47.6	24.0	13.8
4-Mar	64.0	45.1	41.6	19.3	-9.0	32.9	47.8	23.3	13.7
11-Mar	63.0	46.9	45.1	23.1	2.0	42.0	46.7	27.1	16.4
18-Mar	64.0	46.8	47.7	25.5	9.0	36.4	44.2	27.5	17.1
25-Mar	67.0	46.8	47.9	24.9	7.0	36.4	50.9	27.6	16.3
1-Apr	71.0	50.0	49.6	26.5	8.0	42.0	50.2	28.4	17.3
8-Apr	70.0	48.3	53.5	29.6	18.0	44.1	52.5	30.8	19.0
15-Apr	74.0	50.8	55.5	30.8	18.0	49.7	49.3	33.0	20.4
22-Apr	80.0	54.0	60.4	35.6	25.0	49.7	53.8	37.3	23.5
29-Apr	78.0	55.2	58.1	35.0	23.0	56.0	54.7	39.7	25.4
6-May	81.0	56.8	62.0	37.0	28.0	58.8	61.2	43.6	27.2
13-May	81.0	57.8	62.6	39.3	31.0	66.5	66.6	47.8	30.4
20-May	84.0	61.0	67.4	42.2	32.0	75.6	69.0	55.8	35.1
27-May	83.0	59.2	68.7	42.6	35.0	74.9	68.9	56.7	35.8
3-Jun	86.0	59.3	69.7	43.8	35.0	77.0	64.7	59.3	37.8
10-Jun	91.0	63.2	73.5	48.1	38.0	89.6	71.4	67.5	43.2
17-Jun	90.0	63.9	75.0	48.5	40.0	90.3	75.8	70.7	43.4
24-Jun	95.0	64.3	78.6	50.0	41.0	95.2	73.8	72.4	45.2
1-Jul	94.0	65.6	82.2	52.3	44.0	99.4	77.4	75.1	46.0
8-Jul	98.0	63.6	85.0	54.4	47.0	107.1	72.2	74.5	47.1
15-Jul	97.0	63.9	84.2	54.0	47.0	90.3	72.6	72.7	47.4
22-Jul	97.0	63.8	84.5	54.8	47.0	92.4	73.3	72.0	48.2
29-Jul	96.0	62.8	86.1	56.2	50.0	100.1	73.7	75.2	50.6
5-Aug	95.0	65.5	85.4	55.2	48.0	96.6	71.2	72.1	47.3
12-Aug	98.0	65.9	85.7	55.0	48.0	89.6	83.8	70.2	45.1
19-Aug	95.0	65.0	83.7	53.9	45.0	88.9	65.6	69.6	45.9
26-Aug	95.0	64.5	83.5	53.2	44.0	88.9	74.1	65.1	43.6
2-Sep	95.0	61.8	81.8	50.5	42.0	74.9	62.5	57.0	37.4
9-Sep	94.0	61.2	79.5	48.8	40.0	81.2	71.1	55.6	36.5
16-Sep	88.0	57.6	72.5	44.3	33.0	74.2	68.0	52.6	34.5
23-Sep	87.0	58.2	68.3	40.6	30.0	62.3	56.0	45.4	30.4
30-Sep	86.0	56.8	69.3	40.1	25.0	63.0	57.3	45.0	29.0
7-Oct	83.0	54.5	65.0	37.5	27.0	53.9	52.5	40.3	25.7
14-Oct	79.0	53.6	62.1	34.9	22.0	50.4	59.5	37.2	24.0
21-Oct	78.0	52.4	59.8	33.3	19.0	55.3	54.9	37.4	23.8
28-Oct	75.0	51.1	58.2	30.9	16.0	46.2	57.7	34.0	21.0
4-Nov	71.0	49.8	51.1	26.7	4.0	46.2	48.4	29.9	18.1
11-Nov	68.0	46.3	46.6	24.3	2.0	38.5	45.1	28.0	16.7
18-Nov	66.0	46.2	45.4	22.7	2.0	38.5	46.1	26.4	15.7
25-Nov	62.0	44.9	38.6	16.9	-9.0	34.3	43.2	22.3	12.1
2-Dec	56.0	42.3	36.3	16.0	-11.0	32.2	42.2	21.7	11.7
9-Dec	59.0	43.4	37.8	15.1	-12.0	32.9	47.7	22.0	11.4
16-Dec	58.0	42.9	37.3	15.1	-7.0	32.9	41.8	22.1	10.7
23-Dec	53.0	40.8	31.2	11.2	-25.0	32.2	42.2	19.4	9.9
31-Dec	52.0	40.2	30.9	10.3	-25.0	32.9	48.2	18.5	9.3

SHERIDAN WY

WMO No. 726660

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



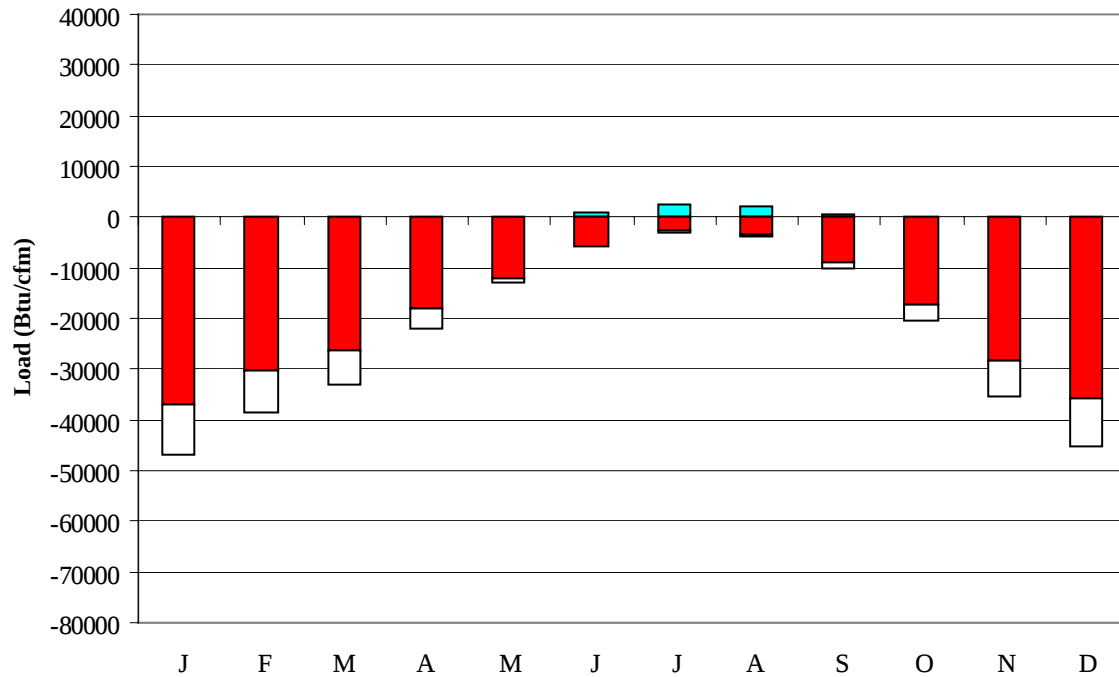
■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1330
FEB	0	1089
MAR	1	926
APR	14	614
MAY	41	383
JUN	126	167
JUL	247	72
AUG	230	95
SEP	90	287
OCT	20	577
NOV	1	1003
DEC	0	1281
ANN	771	7824

SHERIDAN WY

WMO No. 726660

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

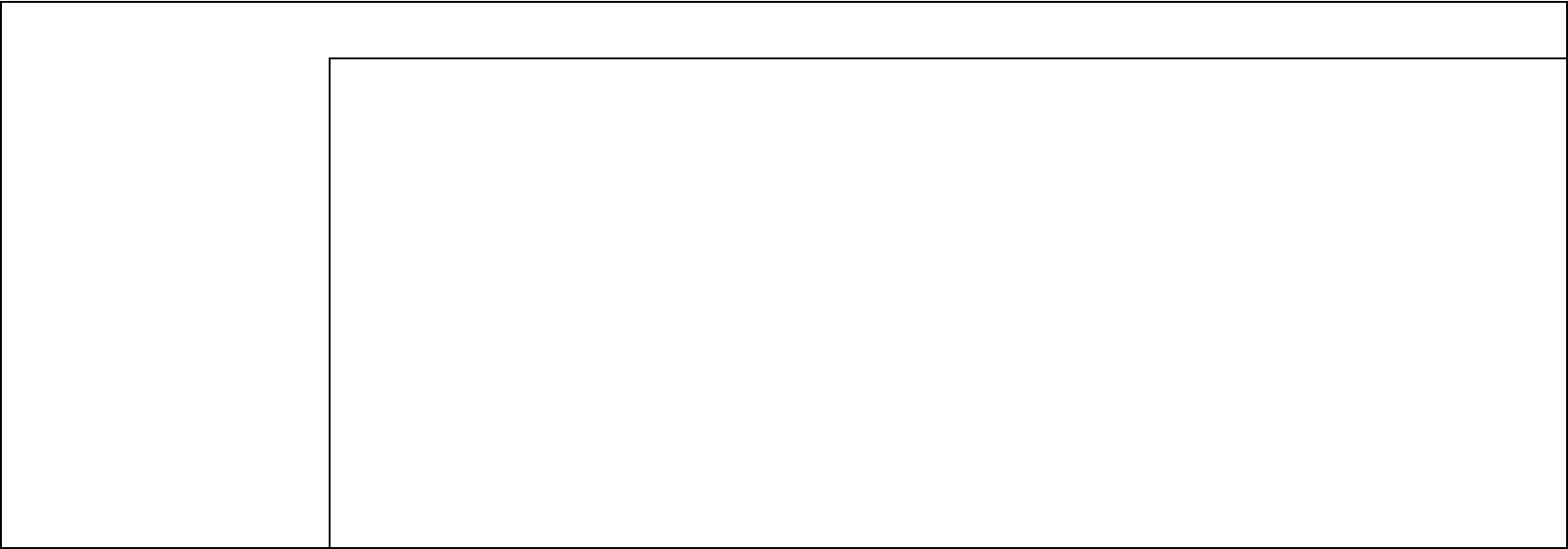


■ Average Sensible Cooling Load	■ Average Sensible Heating Load
■ Average Latent Cooling (Drying) Load	■ Average Latent Heating (Humidifying) Load

	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	-36887	0	-9765
FEB	0	-30405	0	-8129
MAR	1	-26389	0	-6782
APR	35	-18089	0	-3873
MAY	184	-11953	1	-1031
JUN	945	-5754	38	-144
JUL	2412	-2823	93	-46
AUG	2188	-3490	23	-133
SEP	699	-9133	0	-1051
OCT	77	-17068	0	-3288
NOV	0	-28310	0	-7103
DEC	0	-35616	0	-9488
ANN	6541	-225917	155	-50833

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

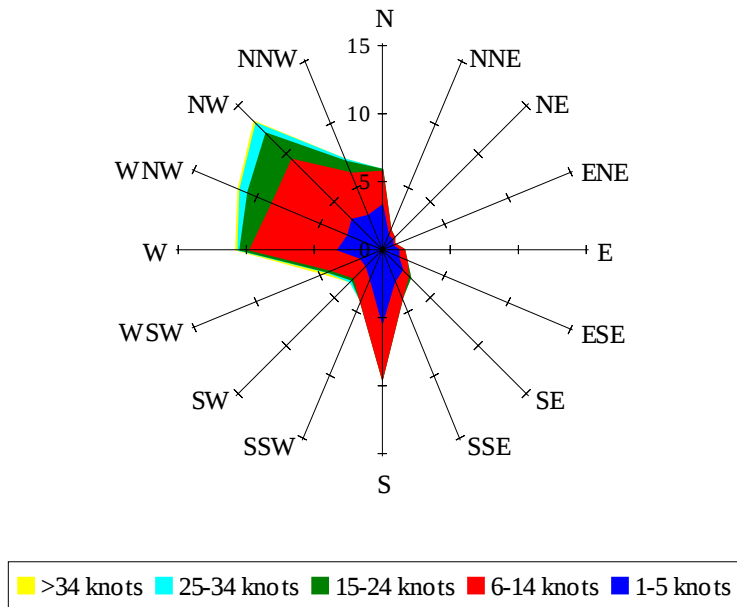
No Solar Radiation
Data Available



Average Annual Solar Heat and Illumination – Nearest Available Site

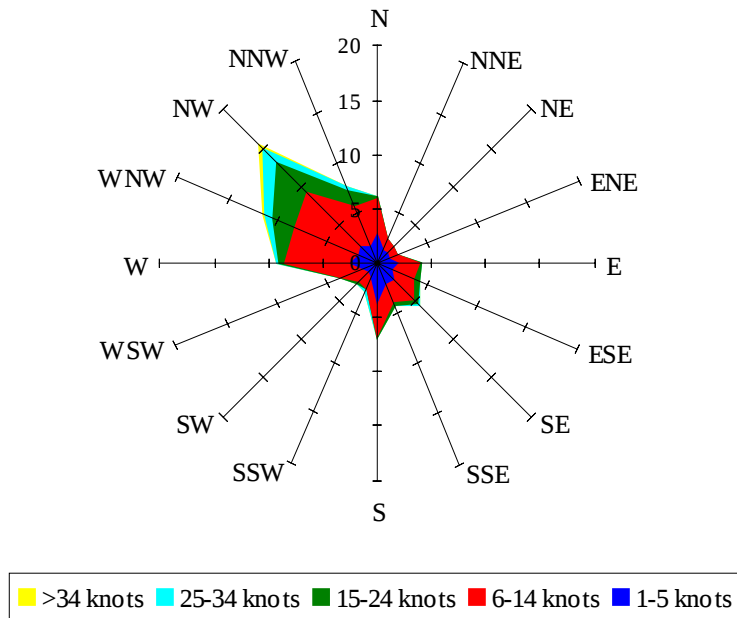
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

Wind Summary - December, January, and February **Labels of Percent Frequency on North Axis**



Percent Calm = 16.96

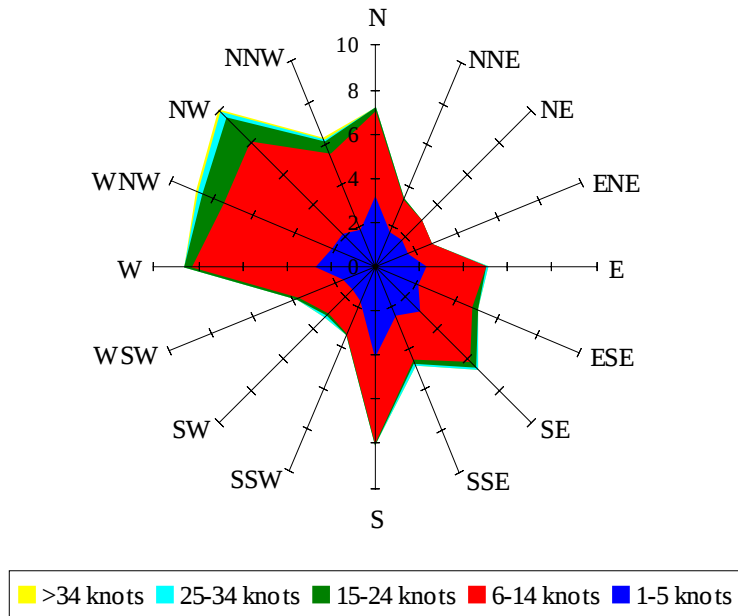
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 10.11

Wind Summary - June, July, and August

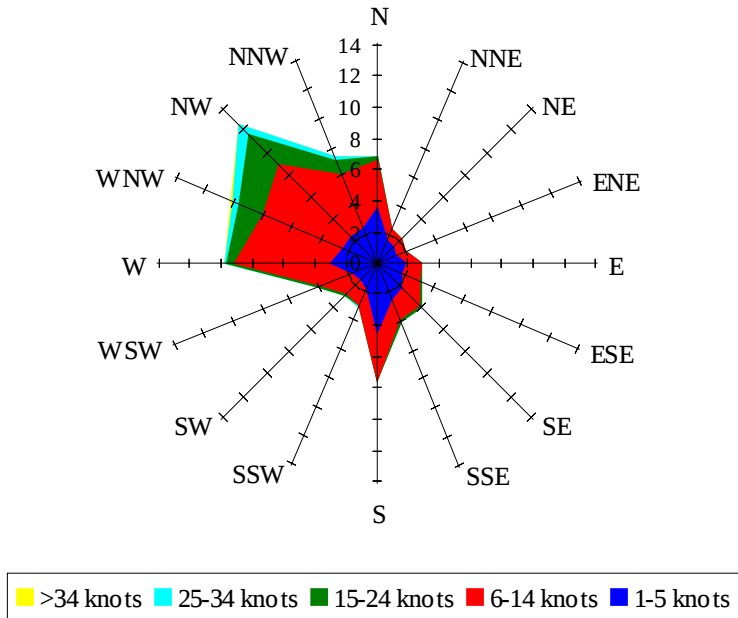
Labels of Percent Frequency on North Axis



Percent Calm = 11.04

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 16.22