

LORING AFB/LIMESTONE ME

Latitude = 46.95 N

WMO No. 727125

Longitude = 67.88 W

Elevation = 745 feet

Period of Record = 1965 to 1994

Average Pressure = 29.09 inches Hg

Design Criteria Data

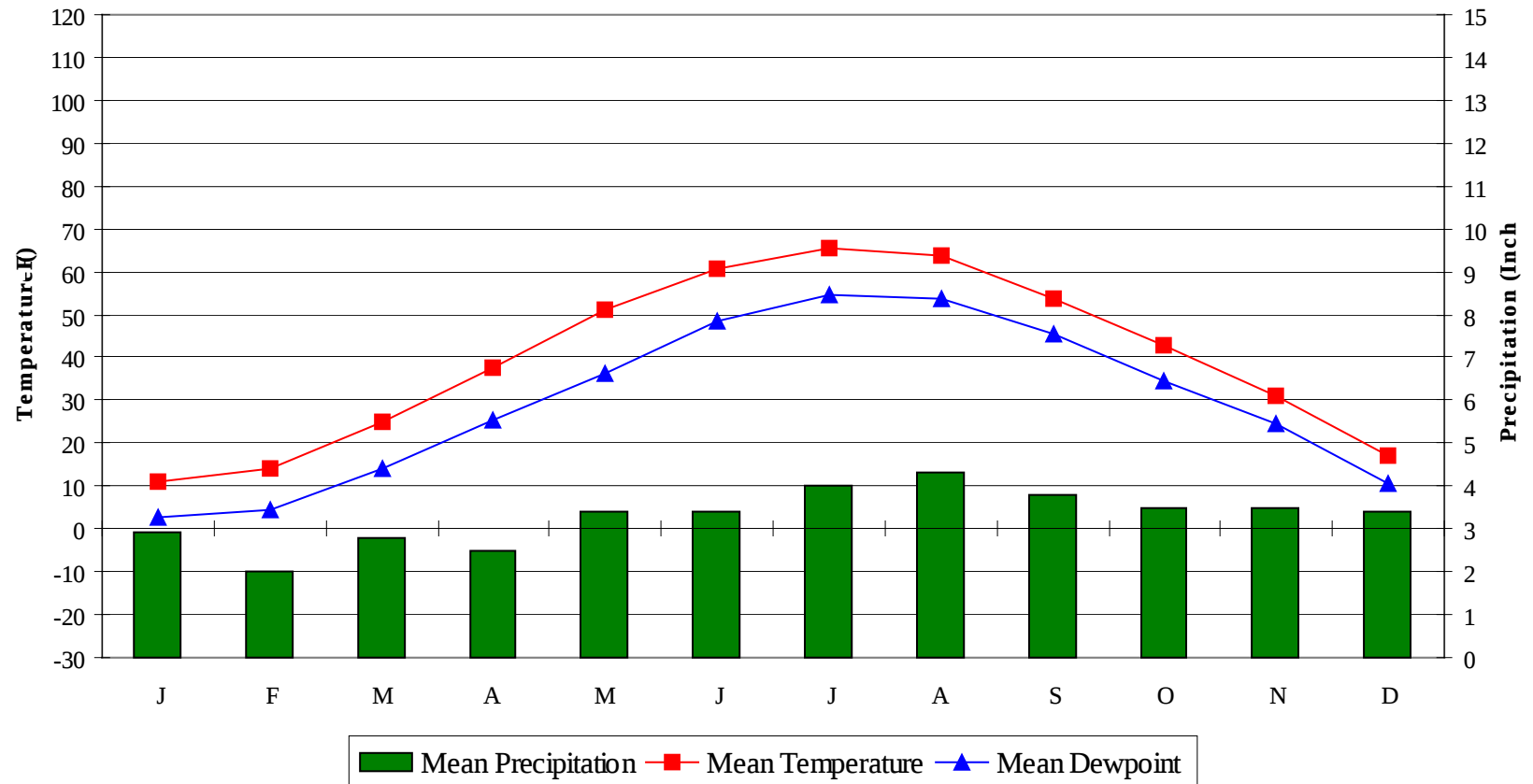
	Design Value	Mean Coincident (Average) Values			
		Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Dry Bulb Temperature (T)	(°F)				
Median of Extreme Highs	89	70	83	10.2	W
0.4% Occurrence	84	68	82	9.0	W
1.0% Occurrence	81	67	77	9.0	S
2.0% Occurrence	78	65	76	8.7	S
Mean Daily Range	17	-	-	-	-
97.5% Occurrence	-4	-5	3	7.0	NW
99.0% Occurrence	-10	-10	2	6.4	NW
99.6% Occurrence	-14	-14	2	6.5	W
Median of Extreme Lows	-22	-21	1	4.4	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	74	84	114	9.1	S
0.4% Occurrence	71	80	103	8.2	S
1.0% Occurrence	69	77	96	7.9	S
2.0% Occurrence	67	75	90	7.4	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	118	77	0.77	7.2	SSE
0.4% Occurrence	106	75	0.69	6.4	S
1.0% Occurrence	99	73	0.65	7.3	S
2.0% Occurrence	93	71	0.60	7.3	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		1	114	17	209

Other Site Data

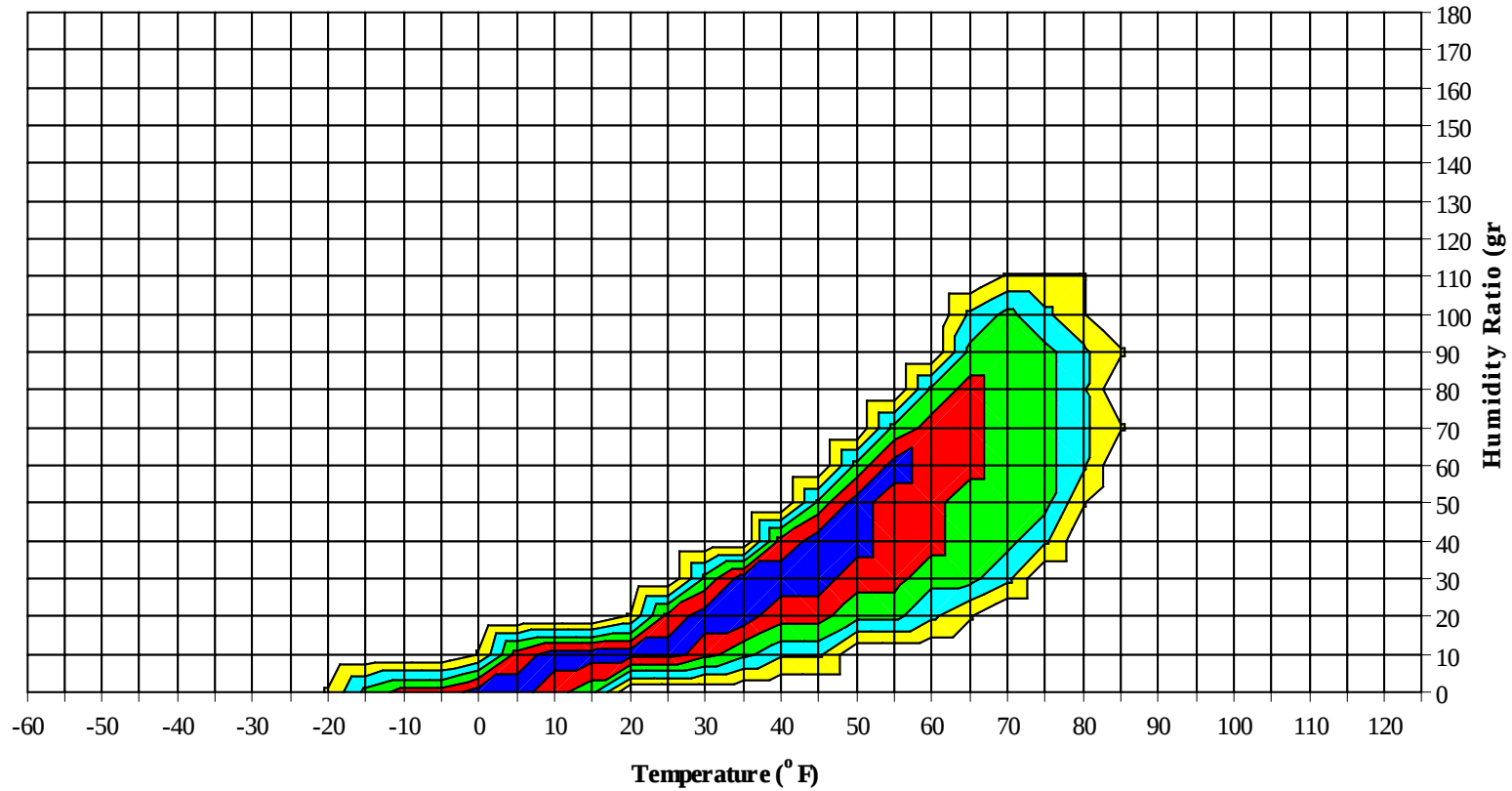
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
4	2.0	90	0.2 + 0.1
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
42.0	133	100	55

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

Average Annual Climate

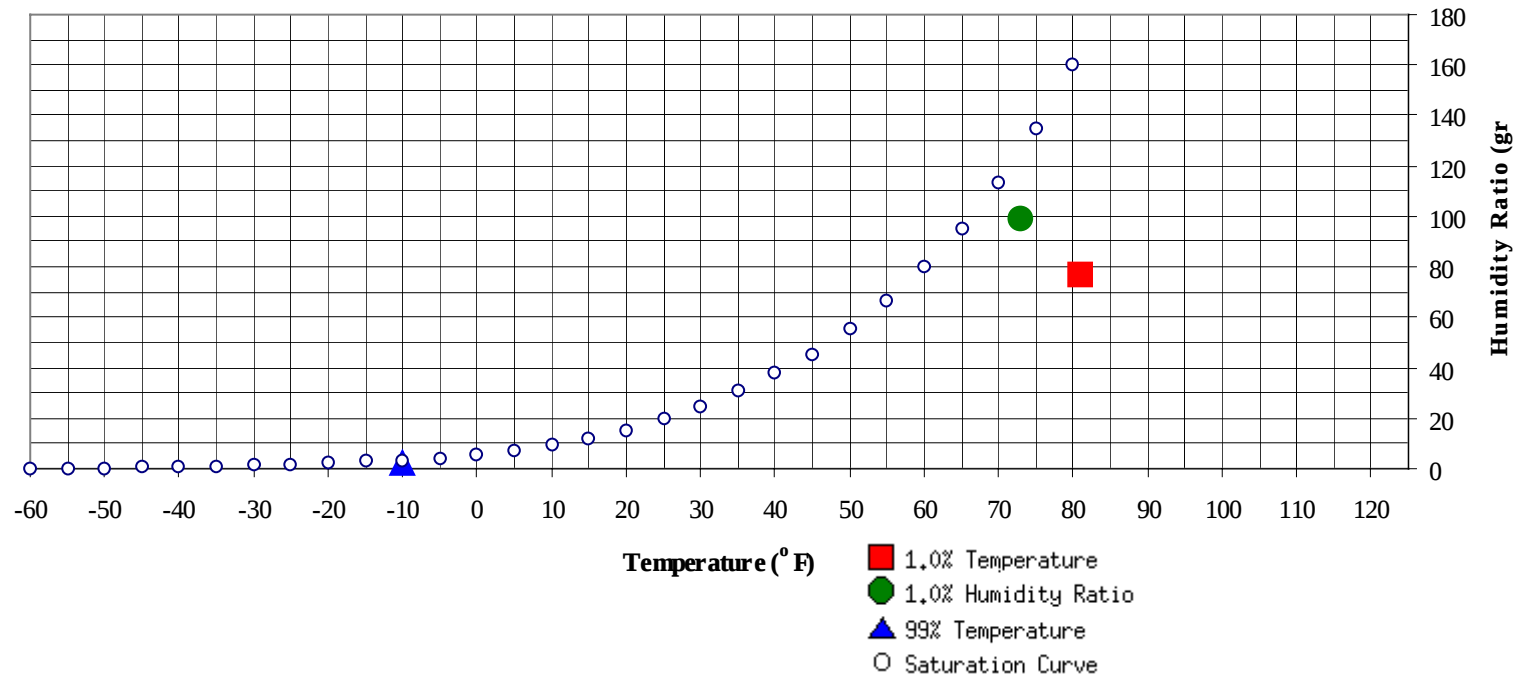


Long Term Psychrometric Summary



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

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	-10	2	-2.1		99.4	72.9	68.2	66	33.0

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	81	77.2	66.5	31.5

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Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

Period of Record = 1965 to 1994

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	46.5
55 / 59							0		0	45.0		1	0	2	45.8
50 / 54		0		0	49.8		0	0	1	43.8	0	2	1	4	43.4
45 / 49	0	1	0	1	45.5	1	2	1	3	42.5	1	8	5	14	40.1
40 / 44	1	2	2	5	40.3	2	5	3	10	38.9	5	23	15	42	36.9
35 / 39	7	11	8	26	34.7	7	10	9	25	33.8	22	43	35	100	33.0
30 / 34	14	13	14	42	30.1	11	19	16	46	29.3	41	49	49	139	29.1
25 / 29	13	21	18	53	24.6	17	26	25	68	24.3	36	39	43	118	23.9
20 / 24	21	29	26	75	20.1	21	34	28	83	19.6	32	30	32	94	19.1
15 / 19	25	35	30	91	15.2	24	37	32	93	15.1	31	22	27	80	14.6
10 / 14	26	36	34	96	10.5	29	31	36	96	10.3	30	17	21	67	10.1
5 / 9	35	35	39	109	5.6	33	25	28	86	5.6	21	10	12	43	5.4
0 / 4	32	29	29	90	0.8	28	17	20	65	0.8	16	3	6	25	0.9
-5 / -1	23	16	18	57	-3.4	19	10	13	41	-3.5	8	1	2	10	-3.4
-10 / -6	20	11	18	49	-7.6	17	5	10	32	-7.7	3	0	0	4	-7.1
-15 / -11	18	6	8	32	-12.1	12	2	3	17	-12.2	1	0	0	1	-12.4
-20 / -16	9	2	3	15	-16.7	4	1	0	5	-16.9	0			0	-15.4
-25 / -21	3	0	1	4	-21.1	1		0	1	-20.6					
-30 / -26	0	0		0	-26.4										

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.

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)

Period of Record = 1965 to 1994

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	63.6		1	0	1	68.5
85 / 89							2	0	2	65.2		5	1	6	67.0
80 / 84		0		0	64.5		3	1	4	63.1	0	14	5	19	65.3
75 / 79		0	0	0	59.3	0	8	3	11	59.2	1	27	12	40	63.3
70 / 74		1	0	1	55.6	0	15	7	22	56.7	5	42	25	72	60.4
65 / 69		3	1	4	53.1	2	26	15	42	54.5	17	49	40	106	58.2
60 / 64	0	6	3	8	49.7	8	39	27	74	51.8	41	47	53	141	55.8
55 / 59	1	15	6	22	47.0	22	44	36	102	49.0	61	33	48	142	52.3
50 / 54	3	26	15	44	43.6	36	45	48	129	45.6	56	17	34	108	48.2
45 / 49	9	38	27	75	40.2	54	38	48	140	42.1	39	4	17	61	43.8
40 / 44	27	49	43	119	37.0	61	20	40	121	38.1	18	0	4	22	39.3
35 / 39	53	51	59	163	33.2	40	6	17	63	33.5	2		0	2	34.9
30 / 34	73	32	52	157	29.1	20	2	6	28	29.5					
25 / 29	43	13	21	77	24.2	4	0	0	5	24.6					
20 / 24	17	5	8	30	19.3	1	0	0	1	19.1					
15 / 19	9	1	3	13	14.7	0			0	15.0					
10 / 14	4	0	0	4	10.1										
5 / 9	1			1	6.8										
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															

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Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)

Period of Record = 1965 to 1994

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	70.5										
90 / 94		1	0	1	71.4		1	0	1	73.8					
85 / 89		8	2	10	70.4		5	1	6	70.5		0		0	71.3
80 / 84	0	28	8	36	67.4	0	19	5	24	67.7		3	0	3	68.2
75 / 79	2	49	23	74	64.8	0	41	14	56	65.6	0	9	2	10	65.5
70 / 74	14	65	43	122	62.9	9	54	32	95	63.7	1	19	7	27	62.4
65 / 69	46	52	61	160	60.9	38	60	57	155	61.1	6	29	17	51	59.6
60 / 64	67	30	59	156	57.5	63	46	64	172	57.6	17	47	32	97	56.3
55 / 59	66	12	38	115	53.6	62	17	44	123	53.4	32	60	48	140	52.2
50 / 54	39	2	12	53	49.3	45	4	22	71	48.9	54	44	55	153	48.4
45 / 49	13	0	2	15	45.0	23	1	8	31	44.3	55	23	45	123	44.1
40 / 44	1		0	1	40.8	8	0	1	9	40.2	41	5	24	70	39.5
35 / 39						1		0	1	36.3	24	1	9	33	35.0
30 / 34											9		1	11	30.8
25 / 29											1		0	1	26.4
20 / 24											0			0	21.7
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															

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Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)

Period of Record = 1965 to 1994

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															
75 / 79		1		1	64.9										
70 / 74		2	0	2	62.9										
65 / 69	0	6	2	8	59.6	0			0	62.6					
60 / 64	3	12	7	22	56.4	0	1	1	2	57.9					
55 / 59	9	27	13	49	51.8	2	5	3	9	53.7					
50 / 54	18	40	28	85	47.5	5	8	6	19	49.0	0	0	0	1	49.0
45 / 49	32	60	43	135	43.0	10	16	12	38	44.2	1	1	1	4	44.9
40 / 44	51	55	58	163	38.6	16	30	19	65	38.9	3	5	3	11	39.7
35 / 39	54	35	52	140	33.9	33	42	37	112	34.2	9	14	11	34	34.7
30 / 34	51	10	34	96	29.5	51	60	57	168	29.7	25	33	28	85	30.4
25 / 29	23	2	10	36	25.2	46	45	49	140	24.7	29	37	35	101	24.9
20 / 24	5		1	6	21.0	36	21	29	86	20.2	33	36	37	105	20.2
15 / 19	1			1	17.1	22	8	17	47	15.8	35	36	35	107	15.6
10 / 14						11	3	7	22	11.0	30	32	30	93	10.8
5 / 9						6	1	2	9	6.6	26	24	28	77	5.9
0 / 4						2	0	0	2	1.9	22	15	18	54	1.1
-5 / -1						0			0	-2.3	14	7	12	33	-3.4
-10 / -6											11	5	6	22	-7.5
-15 / -11											7	2	3	12	-12.1
-20 / -16											2	1	1	3	-16.7
-25 / -21											1		0	1	-20.5
-30 / -26															

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.

LORING AFB/LIMESTONE ME

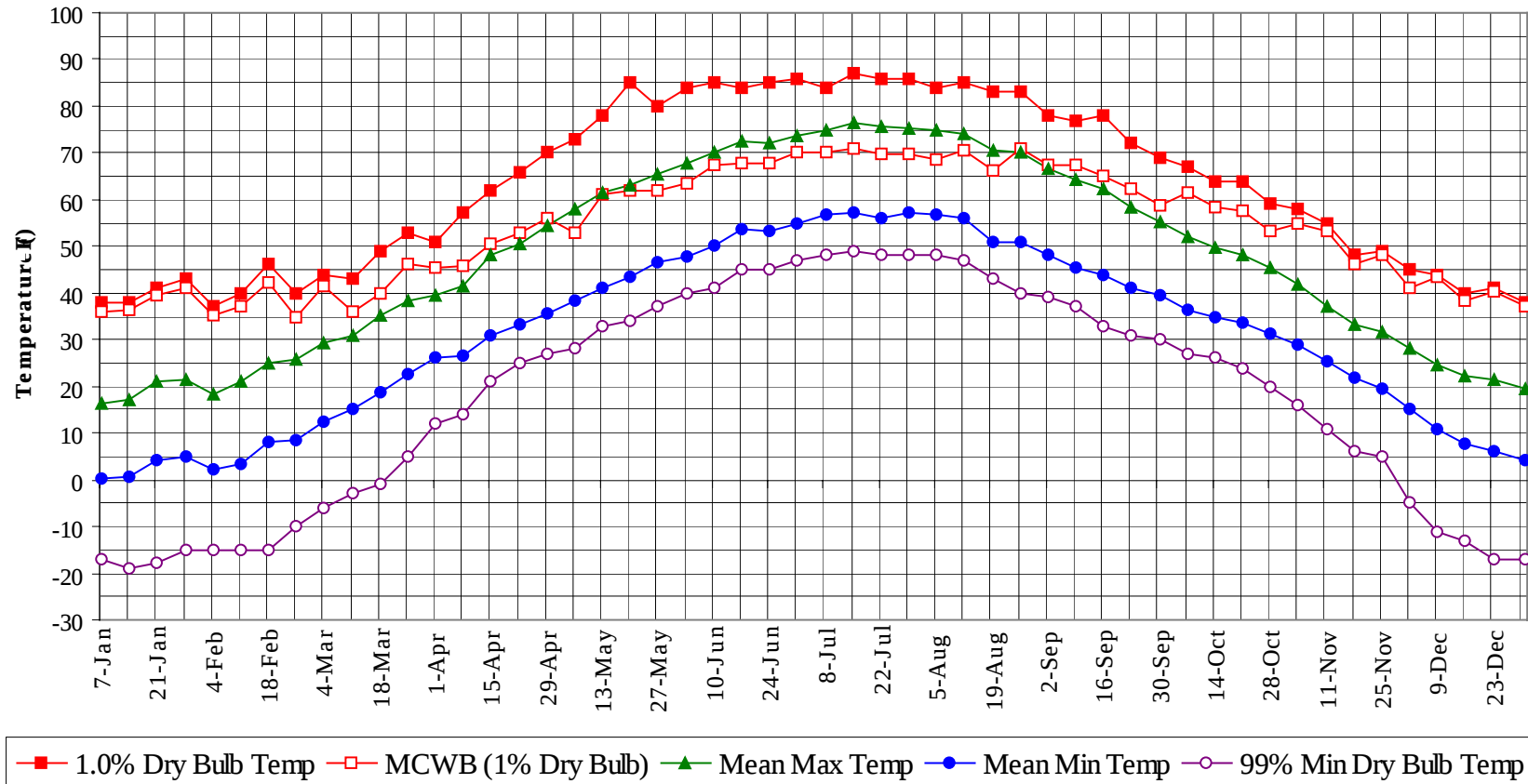
WMO No. 727125

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**Period of Record = 1965 to 1994**

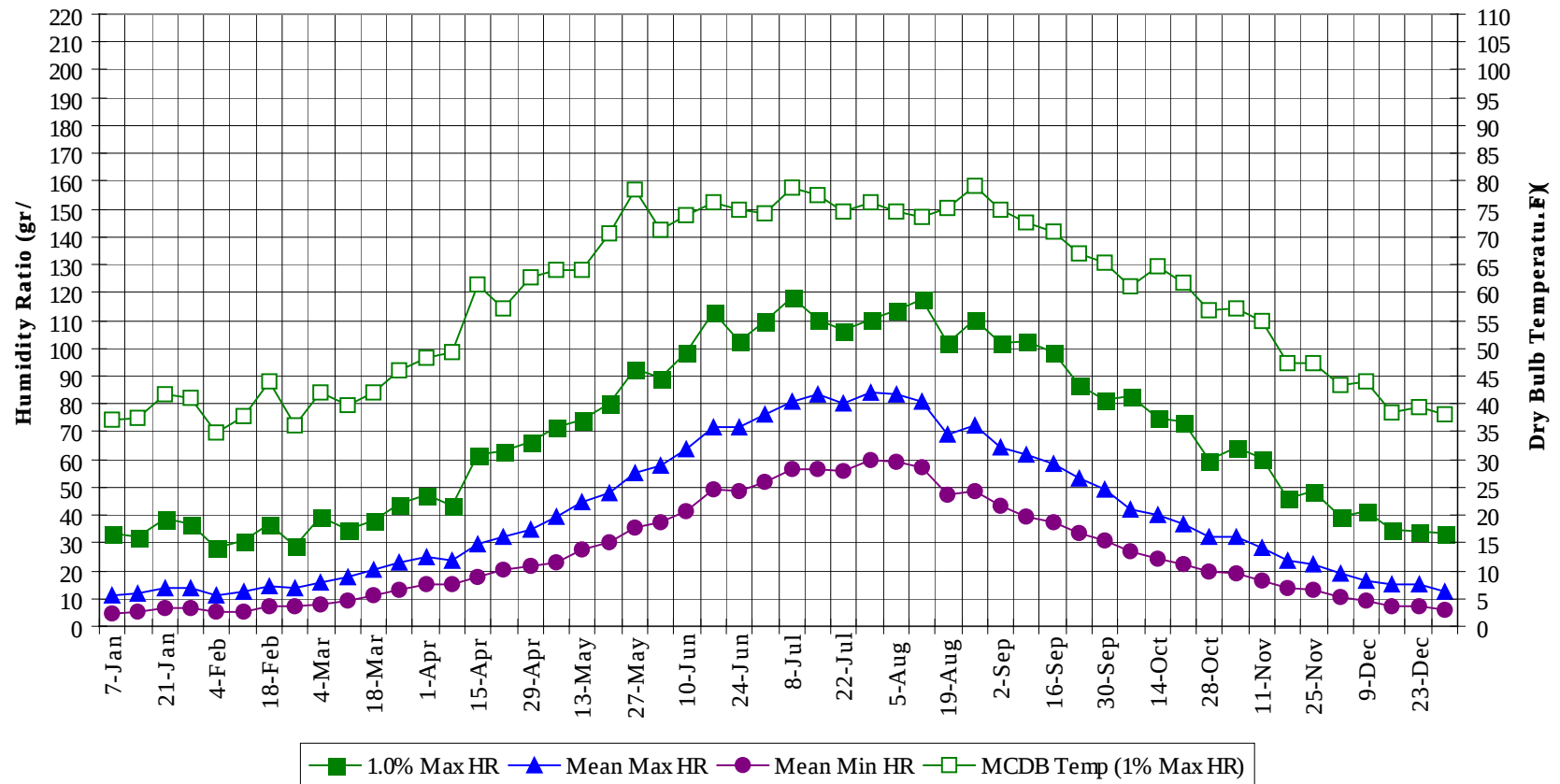
Temperature Range (°F)	Annual Totals				
	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99		0		0	70.5
90 / 94		3	0	3	70.4
85 / 89		20	4	24	69.2
80 / 84	0	67	19	86	66.9
75 / 79	3	134	53	191	64.4
70 / 74	29	197	114	340	62.1
65 / 69	108	223	193	524	59.7
60 / 64	197	227	243	668	56.2
55 / 59	252	213	235	700	52.0
50 / 54	256	188	220	664	47.5
45 / 49	239	189	206	635	42.9
40 / 44	231	192	211	634	38.3
35 / 39	250	212	237	699	33.7
30 / 34	295	218	257	770	29.5
25 / 29	211	185	203	599	24.5
20 / 24	167	156	162	484	19.8
15 / 19	148	143	146	437	15.2
10 / 14	132	121	131	383	10.5
5 / 9	123	96	111	330	5.7
0 / 4	101	65	74	240	0.9
-5 / -1	66	34	45	145	-3.4
-10 / -6	52	22	35	109	-7.6
-15 / -11	39	11	14	64	-12.1
-20 / -16	16	4	5	24	-16.8
-25 / -21	5	0	1	6	-20.9
-30 / -26	0	0		0	-26.4

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Annual Summary of Temperatures



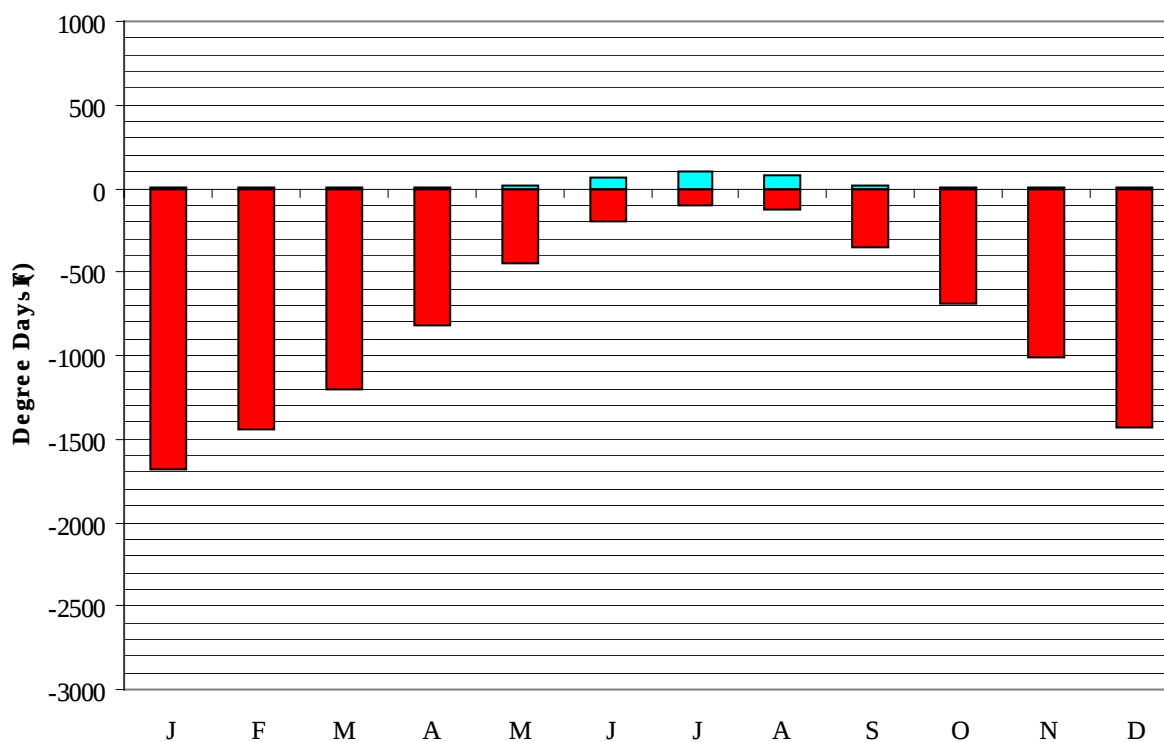
Long Term Humidity and Dry Bulb Temperature Summary



LORING AFB/LIMESTONE ME
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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	38.0	35.9	16.2	0.1	-17.0	33.6	37.0	11.0	4.7
14-Jan	38.0	36.3	17.1	0.5	-19.0	32.2	37.3	11.7	5.1
21-Jan	41.0	39.4	21.0	4.1	-18.0	38.5	41.7	14.1	6.3
28-Jan	43.0	41.3	21.5	4.8	-15.0	37.1	41.1	14.1	6.4
4-Feb	37.0	35.2	18.4	2.3	-15.0	28.0	34.9	10.9	5.1
11-Feb	40.0	37.3	21.0	3.5	-15.0	30.8	37.9	12.2	5.4
18-Feb	46.0	42.2	25.1	7.9	-15.0	37.1	44.1	14.6	7.3
25-Feb	40.0	34.9	25.9	8.6	-10.0	28.7	36.1	13.6	7.0
4-Mar	44.0	41.6	29.1	12.3	-6.0	39.2	42.0	15.8	8.2
11-Mar	43.0	35.9	30.8	15.3	-3.0	35.0	39.7	17.9	9.3
18-Mar	49.0	39.9	35.1	18.6	-1.0	37.8	42.0	20.2	11.1
25-Mar	53.0	46.4	38.3	22.7	5.0	44.1	46.1	22.7	12.9
1-Apr	51.0	45.5	39.6	26.2	12.0	47.6	48.1	24.7	15.1
8-Apr	57.0	45.9	41.4	26.5	14.0	43.4	49.3	23.8	14.9
15-Apr	62.0	50.7	48.3	30.9	21.0	61.6	61.3	29.6	17.5
22-Apr	66.0	52.8	50.5	33.4	25.0	63.0	57.2	32.0	20.6
29-Apr	70.0	55.9	54.4	35.5	27.0	66.5	62.7	35.0	21.9
6-May	73.0	53.0	58.0	38.2	28.0	71.4	63.9	39.2	23.0
13-May	78.0	61.0	61.5	41.2	33.0	74.2	63.9	44.8	27.3
20-May	85.0	62.0	62.9	43.6	34.0	79.8	70.7	48.1	30.0
27-May	80.0	61.7	65.3	46.4	37.0	92.4	78.6	55.2	35.7
3-Jun	84.0	63.3	68.0	47.8	40.0	89.6	71.2	58.0	37.4
10-Jun	85.0	67.2	70.2	50.1	41.0	98.7	73.9	63.7	41.4
17-Jun	84.0	67.8	72.4	53.5	45.0	112.7	76.1	71.5	48.9
24-Jun	85.0	67.6	72.2	53.3	45.0	102.2	74.9	71.5	48.4
1-Jul	86.0	70.1	73.7	54.7	47.0	109.9	74.1	76.0	52.1
8-Jul	84.0	70.0	74.8	56.7	48.0	118.3	78.8	81.1	56.8
15-Jul	87.0	71.0	76.6	57.3	49.0	110.6	77.7	83.3	56.3
22-Jul	86.0	69.6	75.6	55.9	48.0	106.4	74.6	80.3	55.7
29-Jul	86.0	69.9	75.3	57.3	48.0	110.6	76.1	84.0	59.9
5-Aug	84.0	68.6	74.9	56.8	48.0	113.4	74.5	83.2	59.2
12-Aug	85.0	70.6	74.2	55.8	47.0	117.6	73.7	80.9	56.8
19-Aug	83.0	66.1	70.5	51.1	43.0	101.5	75.3	69.0	47.4
26-Aug	83.0	70.9	70.0	51.0	40.0	110.6	79.2	72.3	48.6
2-Sep	78.0	67.4	66.5	48.0	39.0	101.5	75.0	64.5	43.1
9-Sep	77.0	67.5	64.1	45.6	37.0	102.2	72.7	62.0	39.7
16-Sep	78.0	64.9	62.5	43.8	33.0	98.7	71.1	58.1	37.4
23-Sep	72.0	62.3	58.5	41.3	31.0	86.8	66.9	53.0	33.7
30-Sep	69.0	59.0	55.2	39.7	30.0	81.2	65.3	49.1	30.6
7-Oct	67.0	61.4	52.0	36.5	27.0	82.6	61.0	42.1	26.9
14-Oct	64.0	58.4	49.9	34.7	26.0	74.9	64.7	39.8	24.0
21-Oct	64.0	57.4	48.1	33.5	24.0	73.5	61.9	36.7	22.4
28-Oct	59.0	53.4	45.3	31.1	20.0	59.5	56.8	32.4	19.9
4-Nov	58.0	54.7	41.9	29.0	16.0	64.4	57.2	32.2	19.0
11-Nov	55.0	53.3	37.3	25.2	11.0	60.2	54.9	28.0	16.2
18-Nov	48.0	46.3	33.3	21.9	6.0	46.2	47.2	23.7	13.8
25-Nov	49.0	48.1	31.7	19.3	5.0	48.3	47.4	22.6	12.8
2-Dec	45.0	41.2	28.1	15.2	-5.0	39.2	43.3	19.1	10.4
9-Dec	44.0	43.3	24.5	10.8	-11.0	41.3	43.9	16.7	8.9
16-Dec	40.0	38.4	22.3	7.5	-13.0	35.0	38.3	15.2	7.4
23-Dec	41.0	40.3	21.6	6.3	-17.0	34.3	39.5	15.2	7.2
31-Dec	38.0	37.3	19.6	4.0	-17.0	33.6	38.0	12.5	5.7

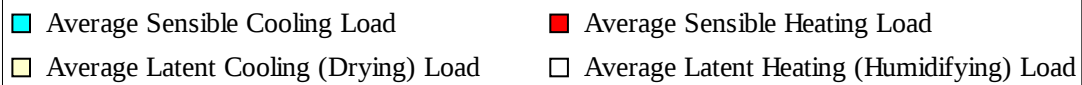
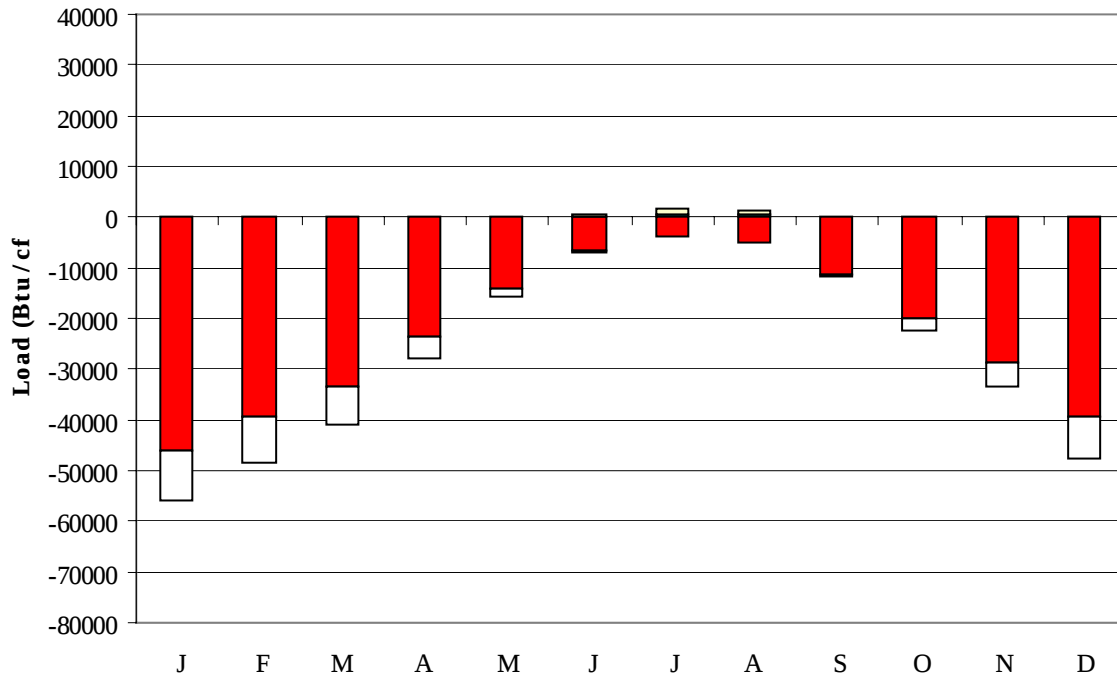
Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days
 ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1680
FEB	0	1438
MAR	0	1201
APR	1	823
MAY	18	455
JUN	61	192
JUL	107	97
AUG	80	131
SEP	17	354
OCT	1	687
NOV	0	1013
DEC	0	1429
ANN	285	9500

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



	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	-45971	0	-9956
FEB	0	-39476	0	-8790
MAR	0	-33469	0	-7396
APR	2	-23640	0	-4348
MAY	79	-14000	27	-1694
JUN	299	-6659	361	-146
JUL	543	-3840	1129	-2
AUG	365	-4945	1133	-22
SEP	45	-11289	233	-341
OCT	1	-20187	21	-2289
NOV	0	-28594	0	-4954
DEC	0	-39359	0	-8190
ANN	1334	-271429	2904	-48128

Average Annual Solar Radiation – Nearest Available Site

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

City: CARIBOU
 State: ME
 WBAN No: 14607
 Lat(N): 46.87
 Long(W): 68.02
 Elev(ft): 623

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.732
 Vert Gap: 0.328

AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day), Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Global	510	810	1210	1450	1660	1820	1790	1520	1140	730	450	390	1120
	Std Dev	43	76	85	145	179	135	138	118	89	80	48	50	53
	Minimum	400	600	950	1110	1150	1470	1450	1250	970	550	360	280	990
	Maximum	570	910	1340	1700	1970	2010	2070	1800	1320	840	540	480	1180
	Diffuse	290	440	650	780	830	900	860	730	560	400	290	240	580
Clear Day	Global	660	1030	1590	2150	2530	2690	2580	2210	1690	1130	700	550	1630
NORTH	Global	170	260	370	450	550	620	590	470	340	240	160	140	360
	Diffuse	170	260	370	440	500	540	520	440	340	240	160	140	340
Clear Day	Global	140	200	300	410	600	730	660	450	310	210	140	120	360
EAST	Global	380	570	800	890	990	1040	1050	930	740	490	320	290	710
	Diffuse	220	330	470	540	580	630	620	530	420	290	200	170	420
Clear Day	Global	600	850	1170	1430	1570	1610	1570	1420	1190	880	620	510	1120
SOUTH	Global	990	1180	1230	1020	900	880	910	970	1000	880	690	780	950
	Diffuse	360	470	570	580	580	610	600	560	480	370	290	290	480
Clear Day	Global	1880	2070	2030	1670	1320	1170	1210	1460	1790	1940	1830	1740	1670
WEST	Global	370	560	770	870	960	1030	1030	910	730	490	300	280	690
	Diffuse	220	330	470	550	590	640	630	550	420	290	200	180	420
Clear Day	Global	600	850	1170	1430	1570	1610	1570	1420	1190	880	620	510	1120

Average Annual Solar Heat and Illumination – Nearest Available Site

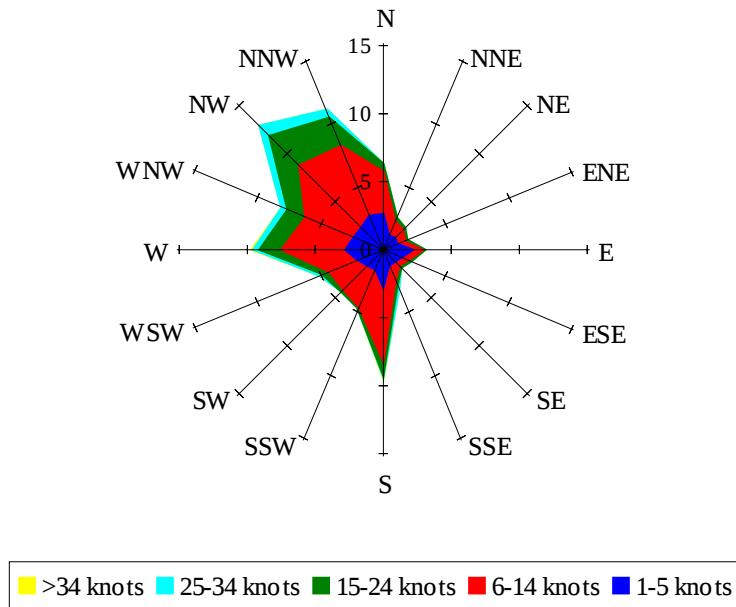
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	310	530	840	1030	1190	1310	1290	1080	800	490	290	240	780
NORTH	Unshaded	120	180	260	310	360	410	390	310	240	170	110	96	250
	Shaded	95	140	210	250	300	340	330	260	200	130	89	77	200
EAST	Unshaded	260	400	570	640	710	750	750	670	530	340	220	200	500
	Shaded	220	330	470	510	550	580	590	530	430	280	180	170	400
SOUTH	Unshaded	750	870	870	690	590	560	580	640	690	640	520	590	670
	Shaded	720	790	640	400	330	340	340	340	450	540	490	570	490
WEST	Unshaded	260	390	550	620	690	740	730	650	520	340	210	190	490
	Shaded	220	330	450	490	540	570	570	520	420	280	170	160	390

AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	45	71	74	52	15	58	87	98	89	59
	M.Cloudy	31	50	49	35	10	36	55	66	60	38
NORTH	M.Clear	11	14	14	12	5	13	16	17	16	13
	M.Cloudy	12	18	18	14	5	13	17	19	18	13
EAST	M.Clear	76	45	14	12	5	82	63	18	16	13
	M.Cloudy	32	30	18	14	5	37	38	19	18	13
SOUTH	M.Clear	56	88	91	64	17	18	47	59	48	19
	M.Cloudy	26	46	45	30	7	15	31	40	34	16
WEST	M.Clear	11	14	36	74	51	13	16	17	62	80
	M.Cloudy	12	18	26	33	16	13	17	19	40	41
M.Clear	(% hrs)	32	29	28	27	28	25	23	18	16	19

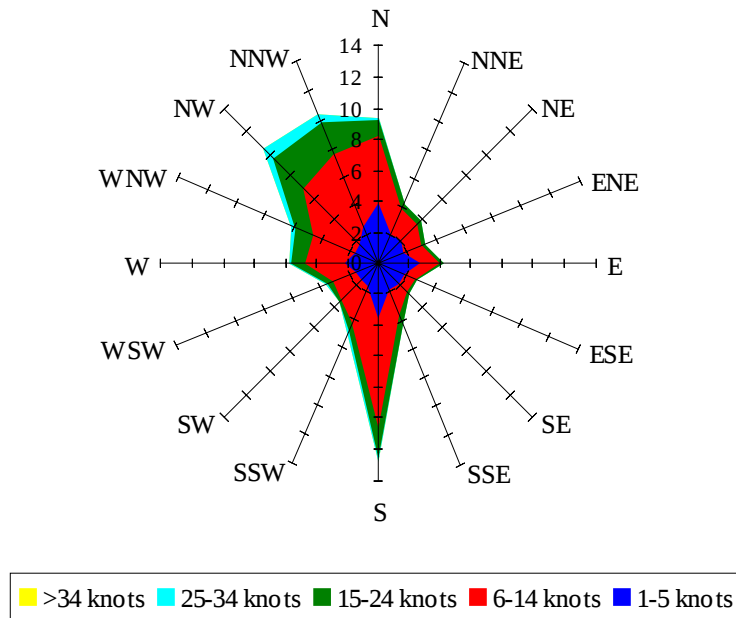
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	35	64	76	64	33	13	32	32	12	0
	M.Cloudy	20	38	47	39	20	9	21	20	8	0
NORTH	M.Clear	9	13	14	13	9	5	8	9	5	0
	M.Cloudy	8	13	16	14	8	4	9	9	4	0
EAST	M.Clear	72	58	15	13	9	36	26	9	5	0
	M.Cloudy	25	29	16	14	8	10	13	9	4	0
SOUTH	M.Clear	34	67	82	68	31	41	79	80	38	0
	M.Cloudy	15	32	42	33	14	11	27	26	11	0
WEST	M.Clear	9	13	16	60	69	5	8	28	35	0
	M.Cloudy	8	13	16	30	25	4	9	13	10	0
M.Clear	(% hrs)	31	25	22	23	28	28	25	24	27	31

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



Percent Calm = 12.33

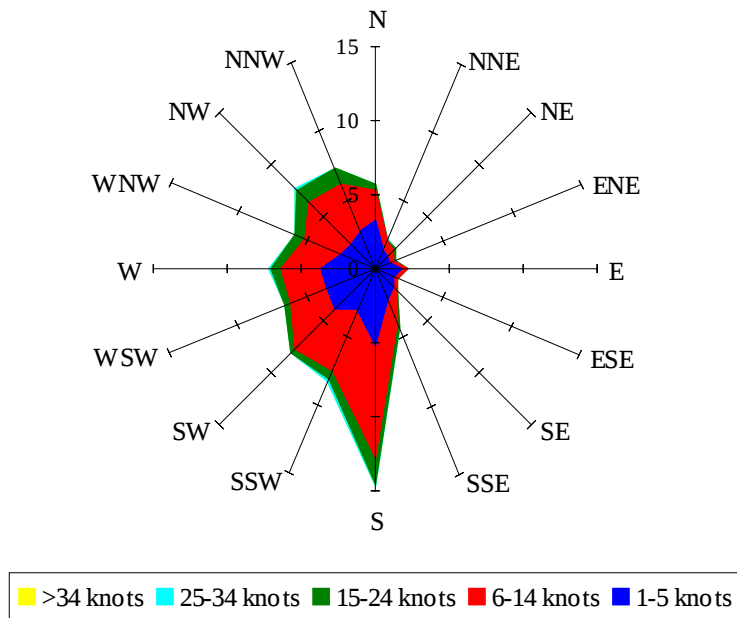
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 9.44

Wind Summary - June, July, and August

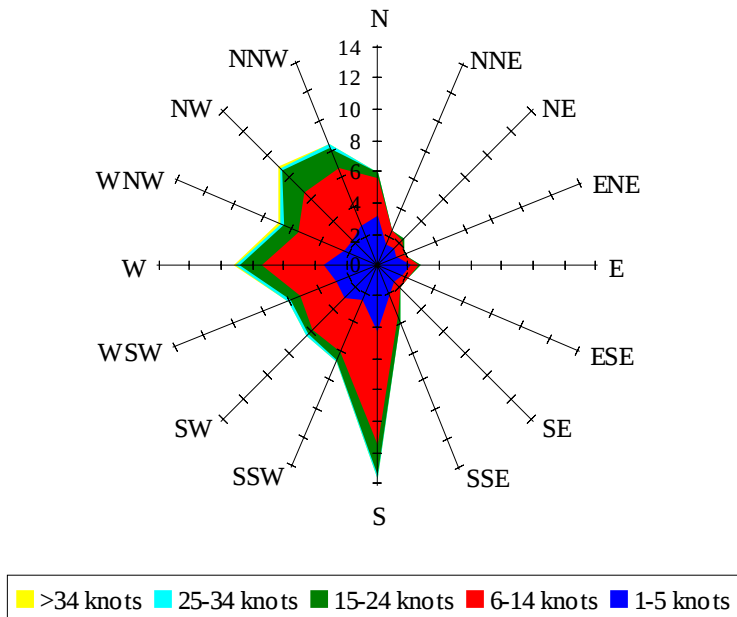
Labels of Percent Frequency on North Axis



Percent Calm = 13.27

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 12.15