

SAINT PAUL ISLAND AK

Latitude = 57.15 N

Longitude = 170.20 W

Period of Record = 1973 to 1996

WMO No. 703080

Elevation = 30 feet

Average Pressure = 29.66 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	59	54	54	12.8	N
0.4% Occurrence	54	51	50	14.6	WSW
1.0% Occurrence	53	50	50	14.6	WSW
2.0% Occurrence	51	49	48	14.4	S
Mean Daily Range	7	-	-	-	-
97.5% Occurrence	10	9	7	19.6	N
99.0% Occurrence	4	3	5	18.7	N
99.6% Occurrence	0	0	4	18.2	N
Median of Extreme Lows	-1	-1	4	18.0	N
	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	55	58	57	11.9	N
0.4% Occurrence	52	53	54	14.5	S
1.0% Occurrence	51	52	52	14.5	S
2.0% Occurrence	50	51	51	14.4	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	58	54	0.39	14.7	SW
0.4% Occurrence	55	52	0.37	15.2	SW
1.0% Occurrence	53	51	0.36	14.5	S
2.0% Occurrence	52	50	0.35	14.2	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		0	0	0	0

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	0.6	130	0.0 + 0.0
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 (#)
38.2	86	45	69

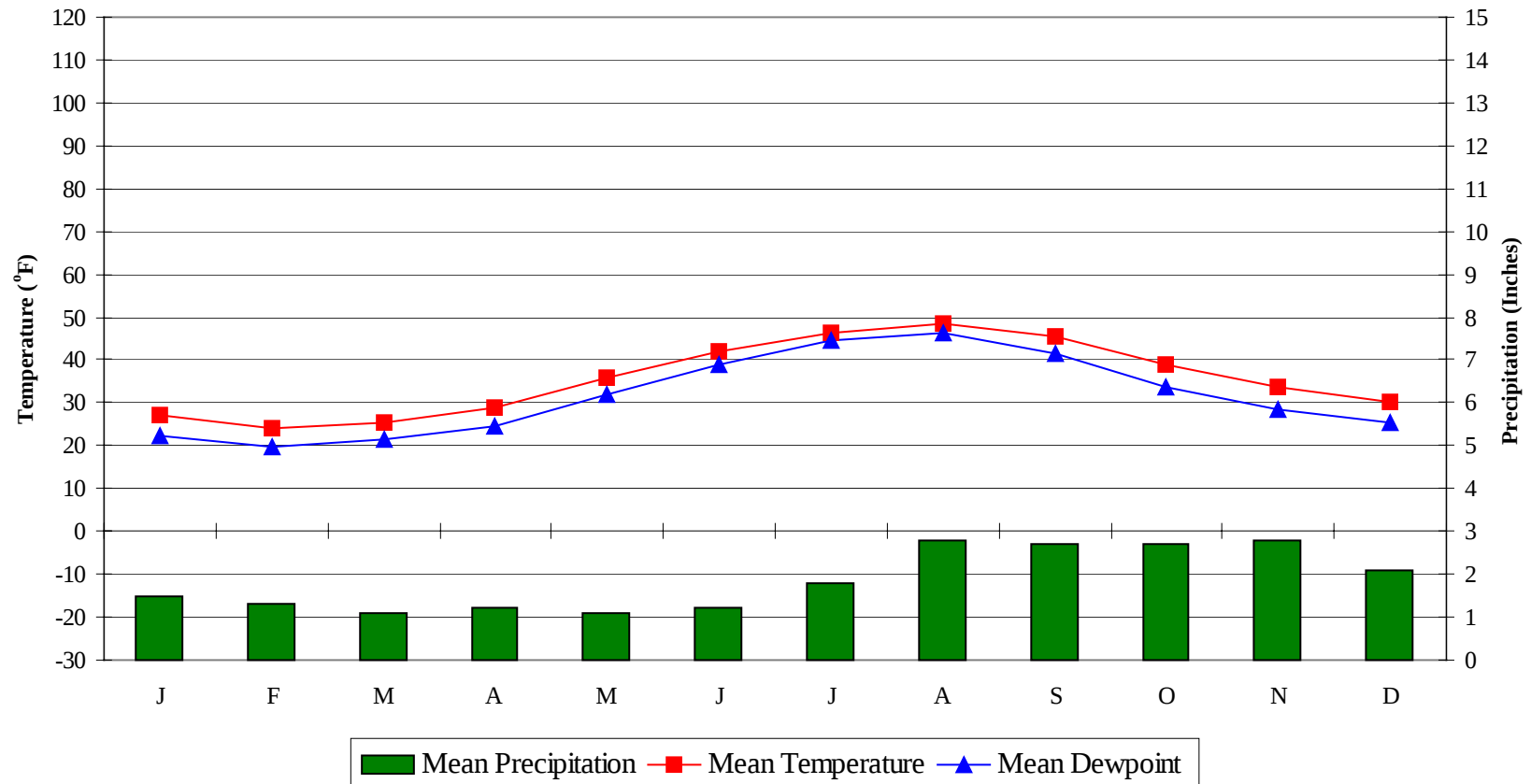
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

SAINT PAUL ISLAND

AK

WMO No. 703080

Average Annual Climate

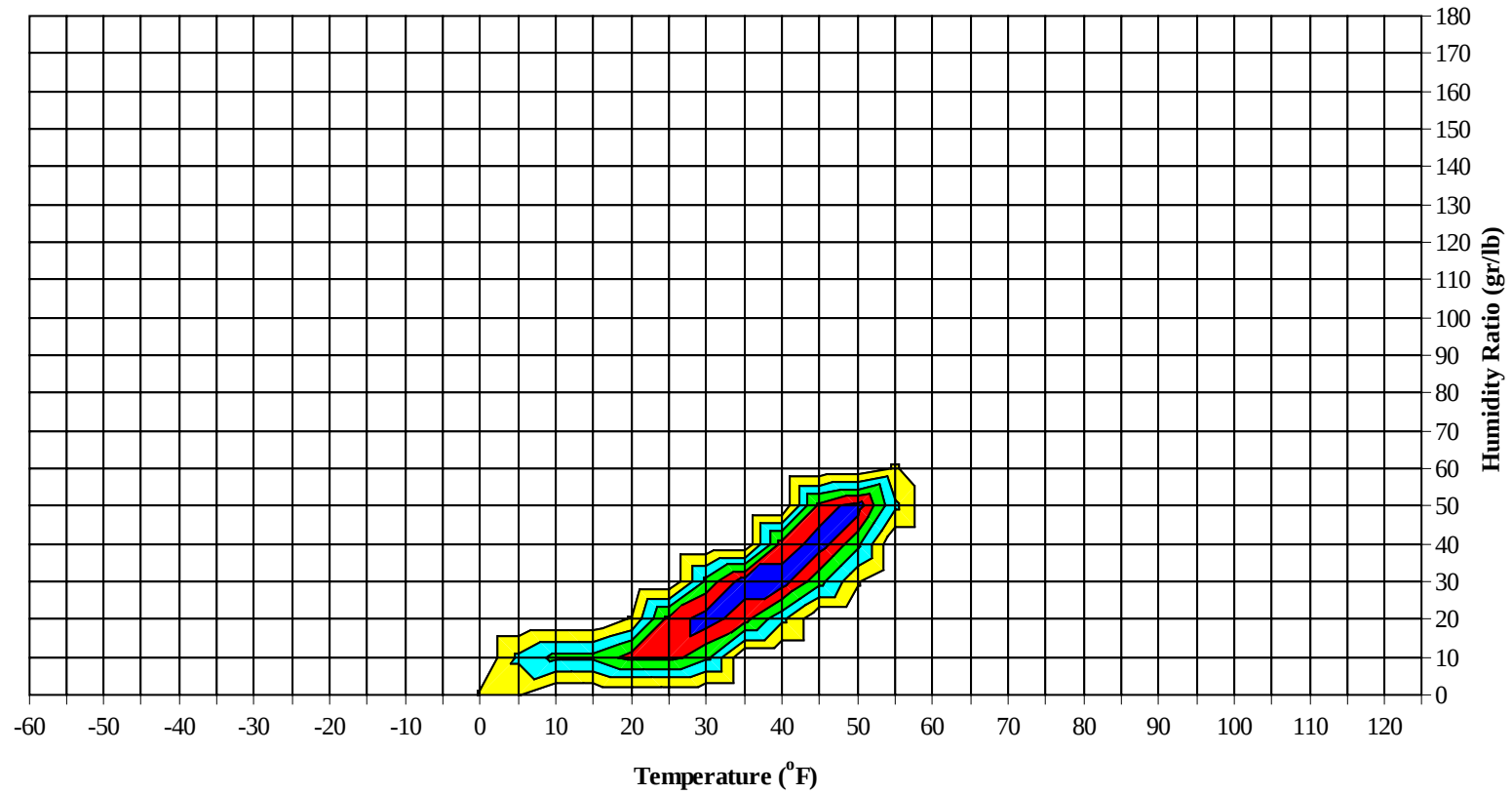


SAINT PAUL ISLAND

AK

WMO No. 703080

Long Term Psychrometric Summary

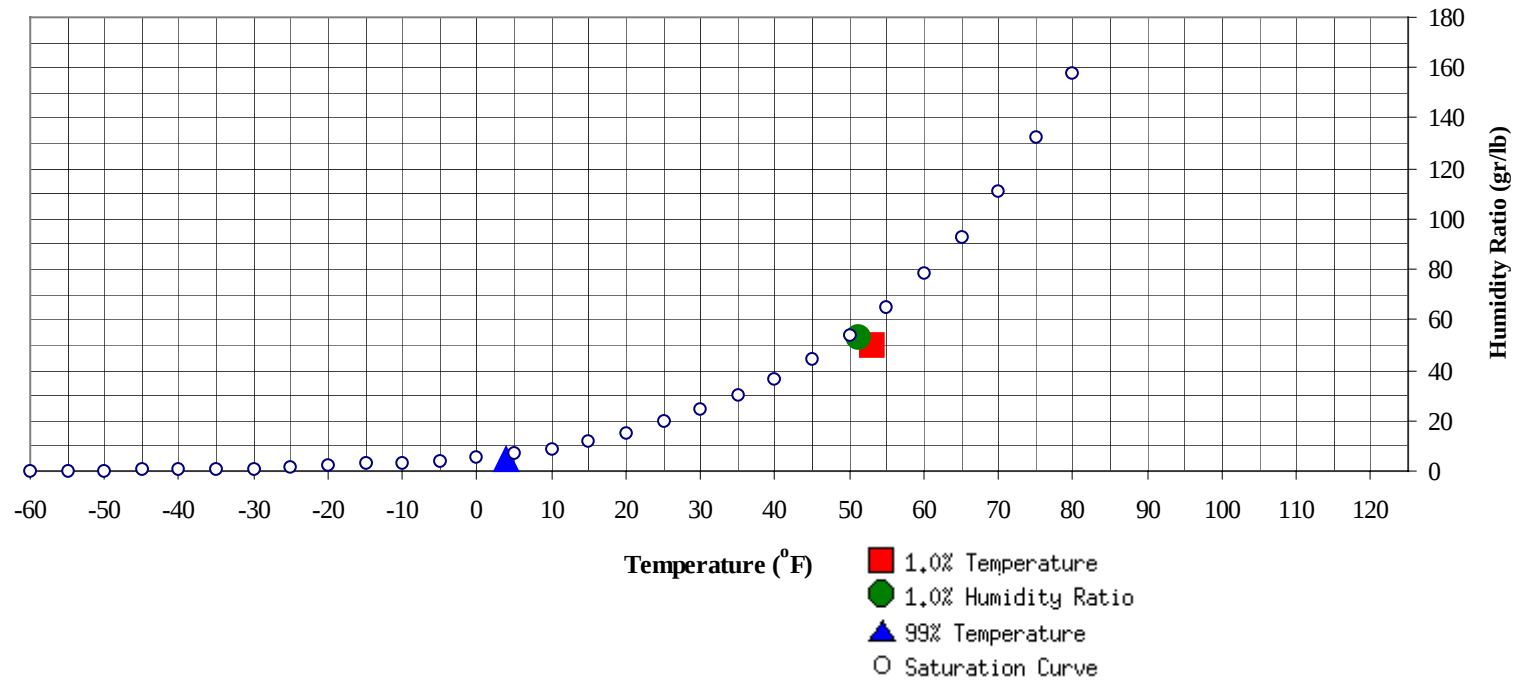


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

SAINT PAUL ISLAND AK

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Psychrometric Summary of Peak Design Values



	(°F)	MCHR	Enthalpy	1.0% Humidity Ratio	(gr/lb)	MCDB	MCWB	MC Dewpt	Enthalpy
		(gr/lb)	(btu/lb)			(°F)	(°F)	(°F)	(btu/lb)
99% Dry Bulb	4	5.1	1.7	Ratio	53.2	51.2	50.4	49.7	20.5

		MCHR	MCWB	Enthalpy
	(°F)	(gr/lb)	(°F)	(btu/lb)
1.0% Dry Bulb	53	49.8	50.3	20.4

SAINT PAUL ISLAND AK

WMO No. 703080

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		
60 / 64															
55 / 59															
50 / 54															
45 / 49		0		0	43.0							0	0	0	44.0
40 / 44	2	4	1	7	39.1	1	1	0	2	38.9		3	0	3	38.3
35 / 39	52	56	52	161	35.1	33	43	34	110	35.0	23	44	25	91	34.6
30 / 34	68	64	66	199	30.8	61	60	63	184	31.0	79	75	81	234	31.1
25 / 29	37	36	37	110	25.5	25	26	28	78	25.6	43	41	42	127	25.9
20 / 24	40	38	38	116	20.5	29	24	27	80	20.8	33	31	34	98	20.9
15 / 19	23	21	23	66	15.9	23	24	24	71	15.8	29	26	29	84	16.3
10 / 14	14	16	15	46	11.1	19	18	16	53	11.1	18	15	18	51	11.4
5 / 9	8	7	8	23	6.8	16	15	15	46	6.4	13	8	11	32	6.2
0 / 4	3	3	4	9	2.0	10	9	11	30	1.3	7	4	5	16	1.4
-5 / -1	1	2	3	5	-2.4	5	4	4	12	-2.8	3	1	2	6	-3.3
-10 / -6	1	0	0	1	-6.3	3	1	2	6	-6.5	1	0	0	1	-6.8
-15 / -11						0		0	0	-11.2	0		0	0	-11.9

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.

SAINT PAUL ISLAND AK

WMO No. 703080

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		
60 / 64												0		0	50.5
55 / 59							0		0	49.0	0	1	0	1	48.7
50 / 54							1	0	1	46.9	0	19	4	24	46.8
45 / 49		1	0	1	40.4	0	17	4	21	42.6	15	90	52	158	44.1
40 / 44	2	16	5	23	38.2	15	77	38	130	39.3	122	106	122	350	40.9
35 / 39	31	66	48	146	34.8	102	98	116	316	35.6	86	21	53	161	36.9
30 / 34	87	74	90	251	30.9	102	47	76	224	31.2	15	2	8	25	32.1
25 / 29	48	37	40	125	25.9	24	8	12	44	26.5	1		0	1	26.4
20 / 24	33	23	30	86	20.6	5	1	2	8	21.0	0		0	0	21.7
15 / 19	20	15	18	53	16.0	1	0	0	1	16.5	0			0	17.5
10 / 14	12	7	7	26	11.3	0			0	11.7					
5 / 9	4	1	2	7	6.7										
0 / 4	2	0	0	2	1.0										
-5 / -1	1			1	-2.9										
-10 / -6	0			0	-7.3										
-15 / -11															

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SAINT PAUL ISLAND AK

WMO No. 703080

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		
60 / 64		1	0	1	54.5		1	0	1	56.2			0	0	52.0
55 / 59	0	9	3	12	52.1	0	9	1	11	52.8		2	0	2	51.4
50 / 54	5	71	30	106	48.9	27	119	60	206	49.5	6	60	20	87	48.5
45 / 49	135	146	160	441	45.9	201	117	177	496	46.7	122	139	133	394	45.4
40 / 44	101	21	53	176	42.5	17	1	8	27	42.4	72	34	58	164	40.5
35 / 39	7	0	1	8	37.6	3		1	4	36.9	31	5	23	59	35.8
30 / 34	0		0	0	32.4	0		0	0	32.5	7	0	6	13	31.9
25 / 29			0	0	26.0	0			0	28.0	1		0	1	27.7
20 / 24													0	0	23.0
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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SAINT PAUL ISLAND AK

WMO No. 703080

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		
60 / 64															
55 / 59															
50 / 54		1		1	47.0										
45 / 49	20	45	19	83	44.2	2	5	0	6	42.7					
40 / 44	81	107	90	278	39.9	38	47	33	118	39.9	5	7	4	16	38.8
35 / 39	82	65	83	230	34.6	69	77	70	216	34.9	74	81	66	221	35.2
30 / 34	51	26	47	124	30.3	73	69	76	218	30.0	75	71	68	214	30.6
25 / 29	13	4	9	26	25.8	38	28	41	107	25.2	45	42	47	134	25.2
20 / 24	2	0	0	2	21.3	17	13	16	45	20.8	26	27	39	92	20.4
15 / 19	0			0	16.3	3	2	2	7	16.5	16	15	16	47	16.2
10 / 14	0			0	13.0	1	0	1	2	11.7	5	4	7	16	11.5
5 / 9						0	0	0	0	7.3	1	1	1	3	7.1
0 / 4											0	0	0	0	2.0
-5 / -1															
-10 / -6															
-15 / -11															

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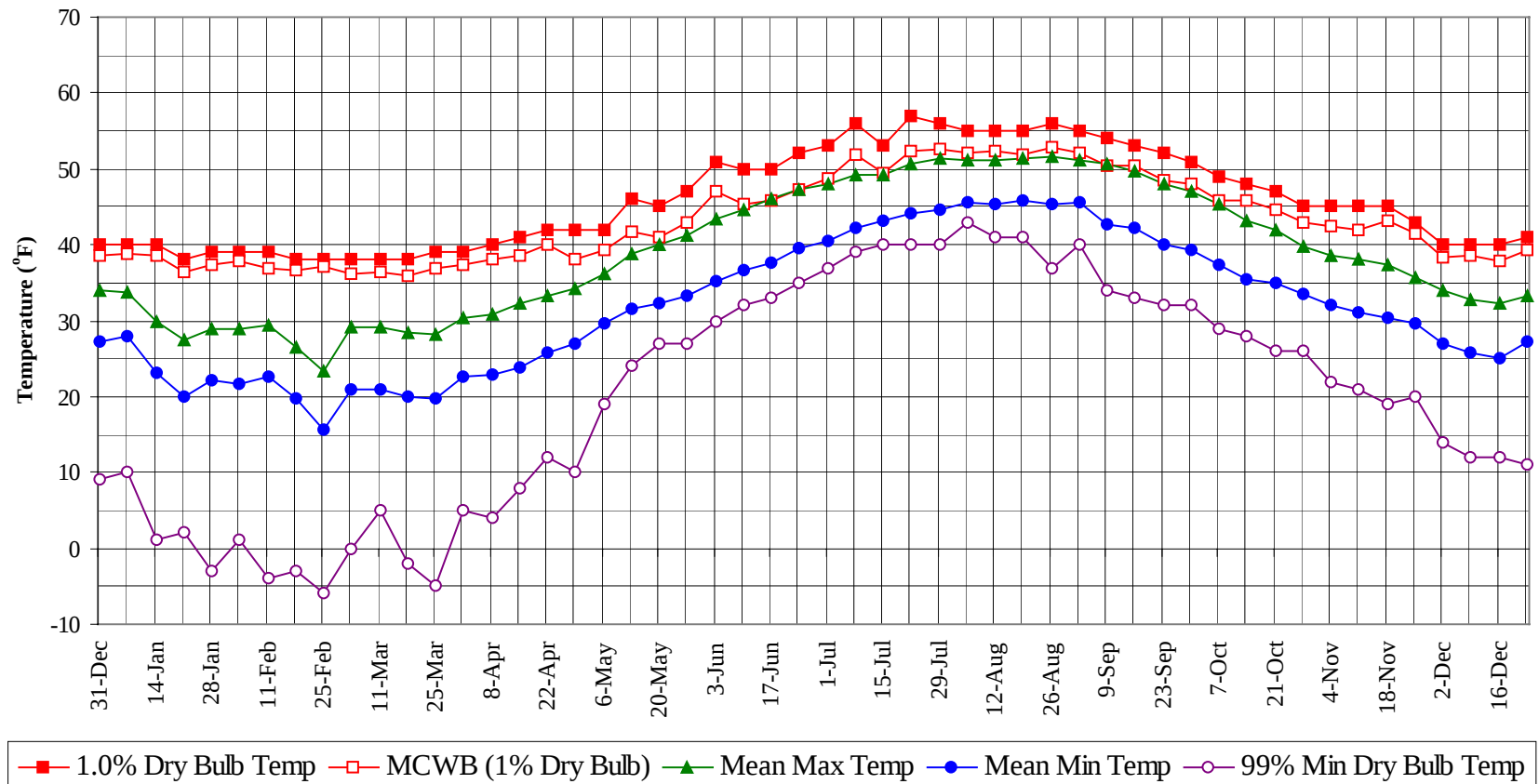
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

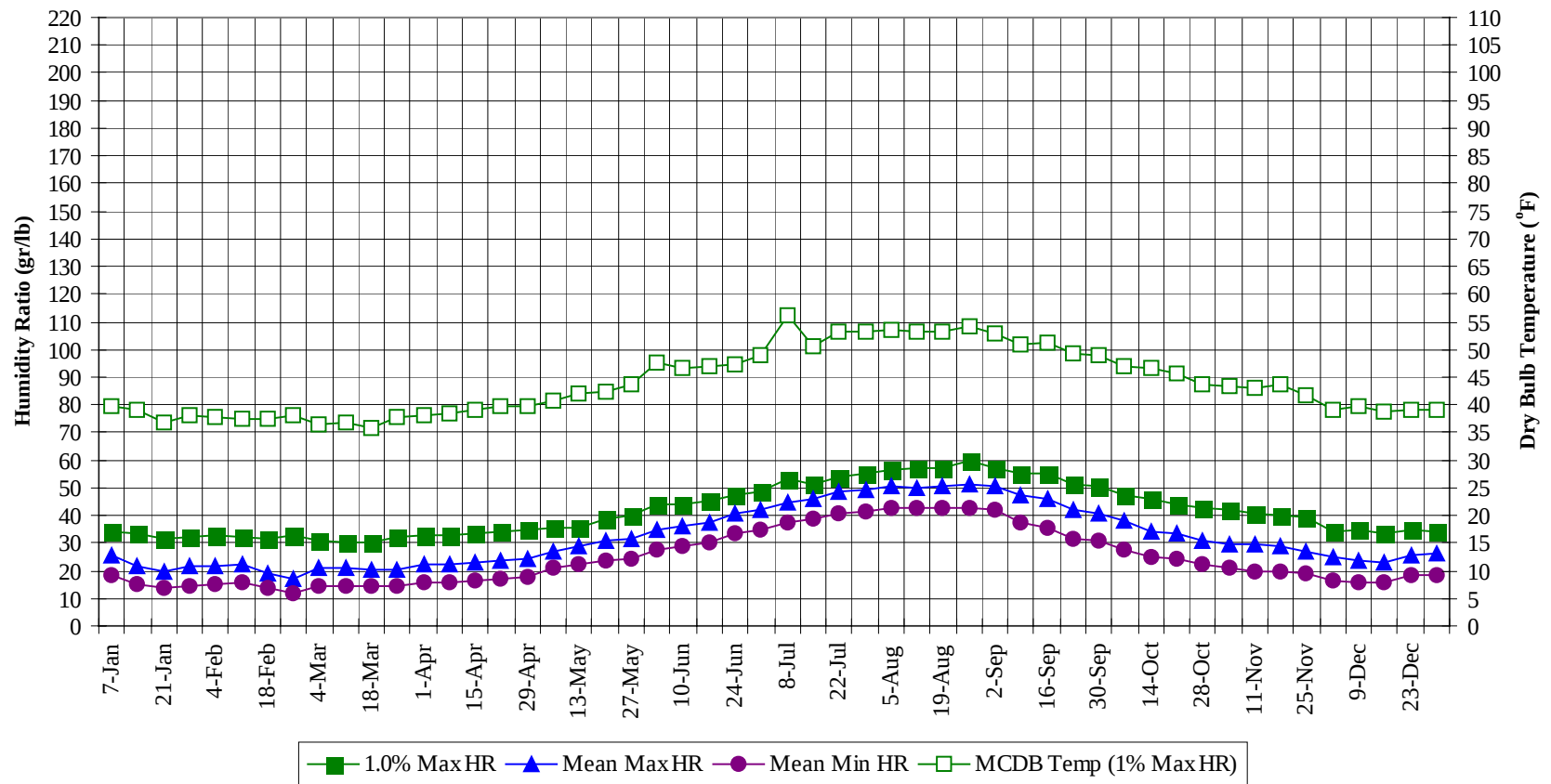
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
60 / 64		2	0	2	55.0
55 / 59	0	22	6	28	52.2
50 / 54	38	272	120	430	49.0
45 / 49	497	561	569	1627	45.7
40 / 44	459	423	436	1318	40.6
35 / 39	591	557	572	1720	35.3
30 / 34	617	488	566	1670	30.8
25 / 29	274	222	243	739	25.6
20 / 24	182	157	177	516	20.6
15 / 19	114	103	107	324	16.1
10 / 14	70	59	60	189	11.3
5 / 9	42	31	36	109	6.5
0 / 4	21	16	19	56	1.4
-5 / -1	9	7	7	23	-2.8
-10 / -6	6	1	2	9	-6.6
-15 / -11	1		0	1	-11.5

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.

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

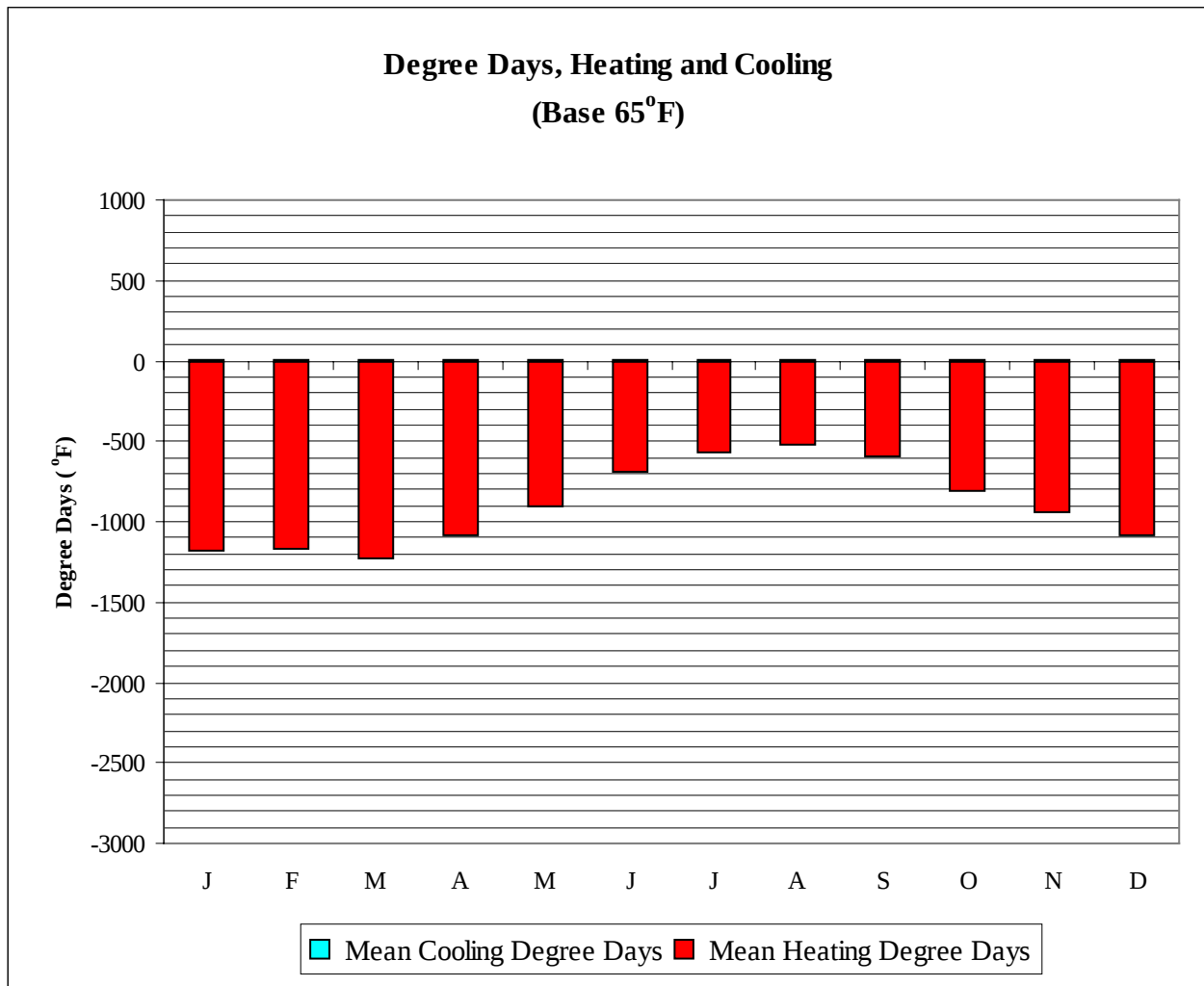


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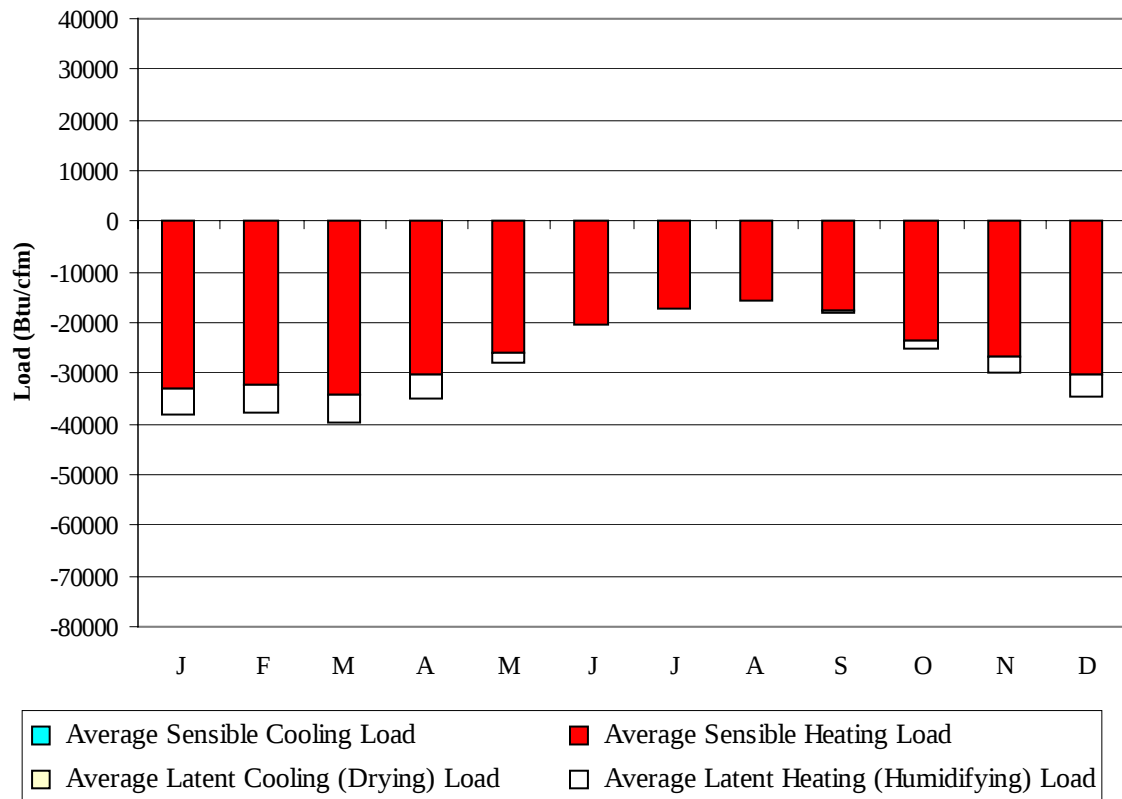
Long Term Dry Bulb Temperature and Humidity Summary

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	40.0	38.8	33.8	27.9	10.0	34.3	39.9	25.6	18.4
14-Jan	40.0	38.5	29.8	23.1	1.0	33.6	39.0	21.7	15.1
21-Jan	38.0	36.4	27.6	20.1	2.0	31.5	36.9	19.9	13.5
28-Jan	39.0	37.4	29.0	22.1	-3.0	32.2	38.0	21.5	14.8
4-Feb	39.0	37.9	29.0	21.6	1.0	32.9	37.8	21.5	14.9
11-Feb	39.0	37.0	29.3	22.5	-4.0	32.2	37.5	22.1	16.0
18-Feb	38.0	36.6	26.5	19.7	-3.0	31.5	37.5	19.3	13.6
25-Feb	38.0	37.2	23.4	15.6	-6.0	32.9	38.1	17.3	11.6
4-Mar	38.0	36.2	29.2	20.9	0.0	30.8	36.3	21.0	14.5
11-Mar	38.0	36.3	29.2	20.9	5.0	30.1	36.8	20.9	14.3
18-Mar	38.0	36.0	28.3	20.1	-2.0	30.1	35.6	20.5	14.1
25-Mar	39.0	37.0	28.1	19.7	-5.0	32.2	37.7	20.5	14.6
1-Apr	39.0	37.4	30.5	22.6	5.0	32.9	38.1	22.1	15.5
8-Apr	40.0	38.2	30.9	22.8	4.0	32.9	38.4	22.1	15.7
15-Apr	41.0	38.7	32.3	23.9	8.0	33.6	39.0	22.9	16.1
22-Apr	42.0	40.1	33.2	25.7	12.0	34.3	39.8	23.9	16.9
29-Apr	42.0	38.0	34.2	26.9	10.0	35.0	39.8	24.6	18.0
6-May	42.0	39.4	36.1	29.7	19.0	35.7	40.6	27.1	20.8
13-May	46.0	41.8	38.8	31.6	24.0	35.7	42.2	29.0	22.6
20-May	45.0	41.0	40.1	32.3	27.0	38.5	42.4	30.7	23.5
27-May	47.0	42.9	41.1	33.2	27.0	39.9	43.7	31.5	24.6
3-Jun	51.0	47.0	43.5	35.3	30.0	44.1	47.6	34.5	27.3
10-Jun	50.0	45.3	44.7	36.6	32.0	44.1	46.7	35.9	29.0
17-Jun	50.0	45.8	46.0	37.7	33.0	45.5	46.8	37.5	30.3
24-Jun	52.0	47.3	47.3	39.5	35.0	47.6	47.3	40.7	33.5
1-Jul	53.0	48.8	48.1	40.5	37.0	48.3	49.1	42.1	34.5
8-Jul	56.0	51.9	49.1	42.2	39.0	53.2	56.1	45.0	37.3
15-Jul	53.0	49.6	49.3	43.1	40.0	51.1	50.5	45.8	38.7
22-Jul	57.0	52.4	50.6	44.0	40.0	53.9	53.3	48.6	40.7
29-Jul	56.0	52.6	51.3	44.7	40.0	55.3	53.3	49.6	41.5
5-Aug	55.0	52.2	51.1	45.5	43.0	56.7	53.6	50.3	42.8
12-Aug	55.0	52.4	51.1	45.5	41.0	57.4	53.2	50.1	42.5
19-Aug	55.0	51.8	51.3	45.8	41.0	57.4	53.2	50.6	42.6
26-Aug	56.0	52.9	51.7	45.5	37.0	59.5	54.1	51.5	42.7
2-Sep	55.0	52.0	51.2	45.7	40.0	57.4	52.8	50.4	42.3
9-Sep	54.0	50.3	50.7	42.8	34.0	55.3	50.9	47.4	37.6
16-Sep	53.0	50.5	49.6	42.1	33.0	55.3	51.4	45.9	35.8
23-Sep	52.0	48.4	48.1	40.0	32.0	51.1	49.2	42.0	31.8
30-Sep	51.0	47.9	47.1	39.4	32.0	50.4	49.1	40.7	30.8
7-Oct	49.0	45.9	45.4	37.3	29.0	47.6	47.0	38.0	27.8
14-Oct	48.0	45.9	43.1	35.5	28.0	46.2	46.7	34.0	24.7
21-Oct	47.0	44.6	42.0	35.0	26.0	44.1	45.5	33.3	24.3
28-Oct	45.0	42.9	39.9	33.5	26.0	42.7	43.6	31.0	22.3
4-Nov	45.0	42.4	38.6	32.1	22.0	42.0	43.4	29.8	21.3
11-Nov	45.0	41.9	38.2	31.1	21.0	40.6	43.1	29.5	19.9
18-Nov	45.0	43.3	37.5	30.4	19.0	39.9	43.8	28.7	19.8
25-Nov	43.0	41.4	35.7	29.6	20.0	39.2	41.8	27.1	19.0
2-Dec	40.0	38.2	33.9	26.9	14.0	34.3	39.1	24.8	16.7
9-Dec	40.0	38.5	32.8	25.7	12.0	35.0	39.8	24.0	15.9
16-Dec	40.0	37.9	32.2	25.1	12.0	33.6	38.9	23.3	15.9
23-Dec	41.0	39.3	33.3	27.2	11.0	35.0	39.0	25.7	18.4
31-Dec	40.0	38.6	34.0	27.2	9.0	34.3	39.1	26.1	18.5



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1180
FEB	0	1166
MAR	0	1229
APR	0	1081
MAY	0	906
JUN	0	692
JUL	0	574
AUG	0	517
SEP	0	589
OCT	0	811
NOV	0	935
DEC	0	1079
ANN	0	10759

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	-33001	0	-5126
FEB	0	-32418	0	-5315
MAR	0	-34260	0	-5522
APR	0	-30362	0	-4504
MAY	0	-25894	0	-2014
JUN	0	-20261	0	-277
JUL	0	-17290	0	-6
AUG	0	-15799	0	-6
SEP	0	-17599	0	-244
OCT	0	-23423	0	-1848
NOV	0	-26585	0	-3327
DEC	0	-30388	0	-4324
ANN	0	-307280	0	-32513

Average Annual Solar Radiation – Nearest Available Site

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

City: ST PAUL IS.
 State: AK
 WBAN No: 25713
 Lat(N): 57.15
 Long(W): 170.22
 Elev(ft): 23

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.133
 Vert Gap: 0.2

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	160	380	750	1120	1240	1270	1130	910	690	400	190	110	700
	Std Dev	22	48	107	166	153	89	84	76	49	32	16	12	47
	Minimum	120	280	580	850	1010	1120	950	760	560	340	150	79	620
	Maximum	200	510	970	1400	1620	1500	1240	1060	760	460	210	140	790
	Diffuse	130	270	520	800	930	990	960	770	500	290	150	88	530
Clear Day	Global	240	560	1130	1840	2380	2610	2470	1970	1320	700	300	170	1310
NORTH	Global	67	150	280	420	510	550	510	400	270	160	81	47	290
	Diffuse	67	150	280	420	490	520	500	390	270	160	81	47	280
Clear Day	Global	63	120	230	390	650	830	730	450	250	150	73	48	330
EAST	Global	120	270	510	680	690	690	610	510	430	270	140	80	420
	Diffuse	85	190	350	510	560	580	550	440	320	200	99	58	330
Clear Day	Global	300	570	990	1430	1680	1770	1700	1460	1090	690	350	230	1020
SOUTH	Global	330	610	860	890	770	730	660	590	630	520	340	240	600
	Diffuse	160	290	460	580	590	590	560	470	380	270	170	120	390
Clear Day	Global	1250	1720	2020	1920	1660	1520	1550	1740	1900	1780	1340	1060	1620
WEST	Global	120	280	510	710	740	740	650	540	440	270	140	80	440
	Diffuse	85	190	350	520	570	590	560	450	320	200	99	59	330
Clear Day	Global	300	570	990	1430	1680	1770	1700	1460	1090	690	350	230	1020

Average Annual Solar Heat and Illumination – Nearest Available Site

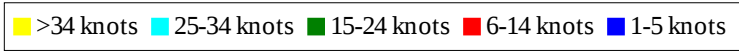
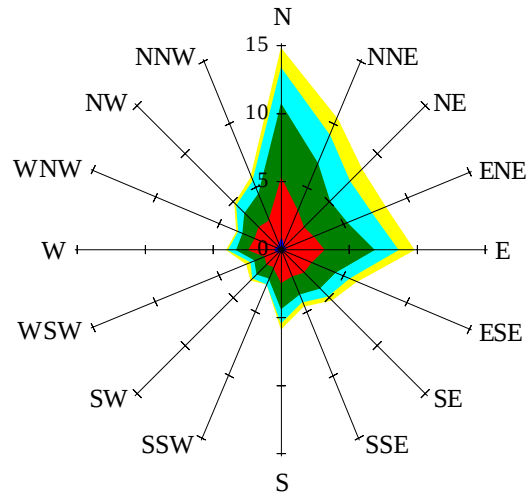
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

		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	96	240	500	780	870	900	790	630	470	260	120	65	480
NORTH	Unshaded	46	100	190	290	350	380	350	280	190	110	56	33	200
	Shaded	46	99	190	280	340	370	340	270	180	110	55	32	190
EAST	Unshaded	79	190	360	480	490	490	430	360	300	190	93	52	290
	Shaded	78	190	350	470	480	480	420	350	300	190	91	52	290
SOUTH	Unshaded	250	460	620	620	530	500	450	410	450	380	260	190	430
	Shaded	250	460	610	620	520	490	440	400	440	380	260	190	420
WEST	Unshaded	80	190	360	510	530	520	460	380	310	190	92	53	310
	Shaded	78	190	360	500	520	510	440	370	300	190	91	52	300

		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	7	33	49	49	32	29	57	78	84	75
	M.Cloudy	6	21	33	33	21	14	29	41	43	41
NORTH	M.Clear	3	9	11	11	9	19	12	14	15	14
	M.Cloudy	3	9	13	13	9	7	13	17	17	17
EAST	M.Clear	26	60	33	11	9	67	79	55	15	14
	M.Cloudy	8	21	19	13	9	11	23	25	17	17
SOUTH	M.Clear	9	53	82	82	52	8	29	59	70	55
	M.Cloudy	4	19	33	34	19	6	15	26	28	25
WEST	M.Clear	3	9	11	33	58	8	12	14	18	60
	M.Cloudy	3	9	13	20	21	6	13	17	18	26
M.Clear	(% hrs)	14	16	16	16	17	5	5	5	7	7
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	4	27	48	55	46	0	2	12	10	0
	M.Cloudy	3	16	27	29	26	0	1	8	7	0
NORTH	M.Clear	2	8	11	12	11	0	1	5	4	0
	M.Cloudy	1	7	11	12	11	0	1	4	3	0
EAST	M.Clear	16	57	46	12	11	0	6	13	4	0
	M.Cloudy	3	17	19	12	11	0	1	5	3	0
SOUTH	M.Clear	2	34	67	79	62	0	7	45	40	0
	M.Cloudy	1	12	25	28	23	0	2	12	11	0
WEST	M.Clear	2	8	11	17	53	0	1	5	15	0
	M.Cloudy	1	7	11	13	21	0	1	4	6	0
M.Clear	(% hrs)	7	6	6	7	5	13	11	7	8	10

Wind Summary - December, January, and February

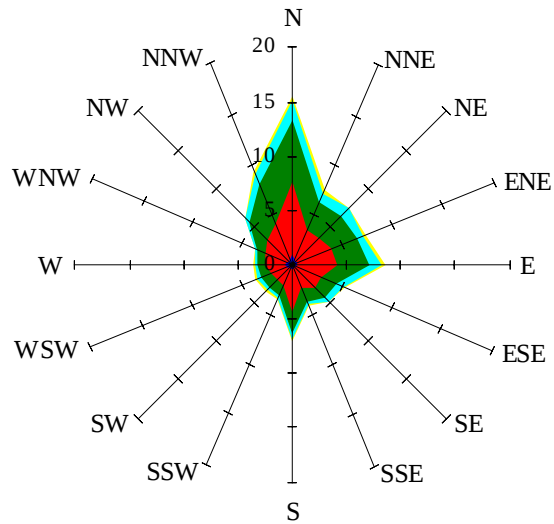
Labels of Percent Frequency on North Axis



Percent Calm = 1.75

Wind Summary - March, April, and May

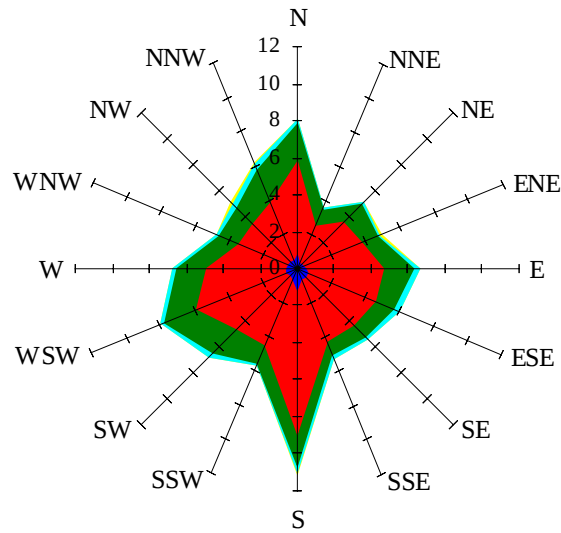
Labels of Percent Frequency on North Axis



Percent Calm = 1.51

Wind Summary - June, July, and August

Labels of Percent Frequency on North Axis

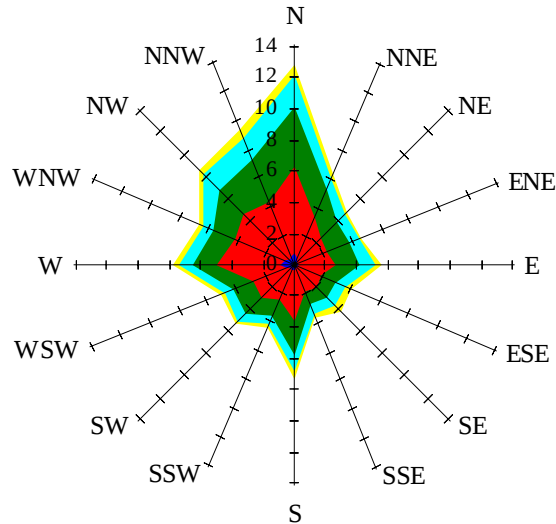


■ >34 knots
 ■ 25-34 knots
 ■ 15-24 knots
 ■ 6-14 knots
 ■ 1-5 knots

Percent Calm = 1.79

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



■ >34 knots
 ■ 25-34 knots
 ■ 15-24 knots
 ■ 6-14 knots
 ■ 1-5 knots

Percent Calm = 1.30