

BREMERTON WA

Latitude = 47.50 N

Longitude = 122.70 W

Period of Record = 1973 to 1996

WMO No. 727928

Elevation = 482 feet

Average Pressure = 29.48 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	93	67	61	9.1	NE
0.4% Occurrence	88	66	63	8.7	NE
1.0% Occurrence	84	65	63	8.9	NE
2.0% Occurrence	80	63	61	8.2	NE
Mean Daily Range	12	-	-	-	-
97.5% Occurrence	30	29	20	3.1	NE
99.0% Occurrence	27	26	17	3.5	NE
99.6% Occurrence	22	20	12	4.2	NE
Median of Extreme Lows	18	17	10	6.0	NE
	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	71	90	82	8.7	NE
0.4% Occurrence	68	85	74	8.1	NE
1.0% Occurrence	66	82	70	7.8	NE
2.0% Occurrence	64	78	67	7.8	NE
	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	95	77	0.62	9.4	NNE
0.4% Occurrence	79	73	0.52	7.1	NE
1.0% Occurrence	76	71	0.50	6.9	NE
2.0% Occurrence	73	69	0.49	6.9	SSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		8	181	2	60

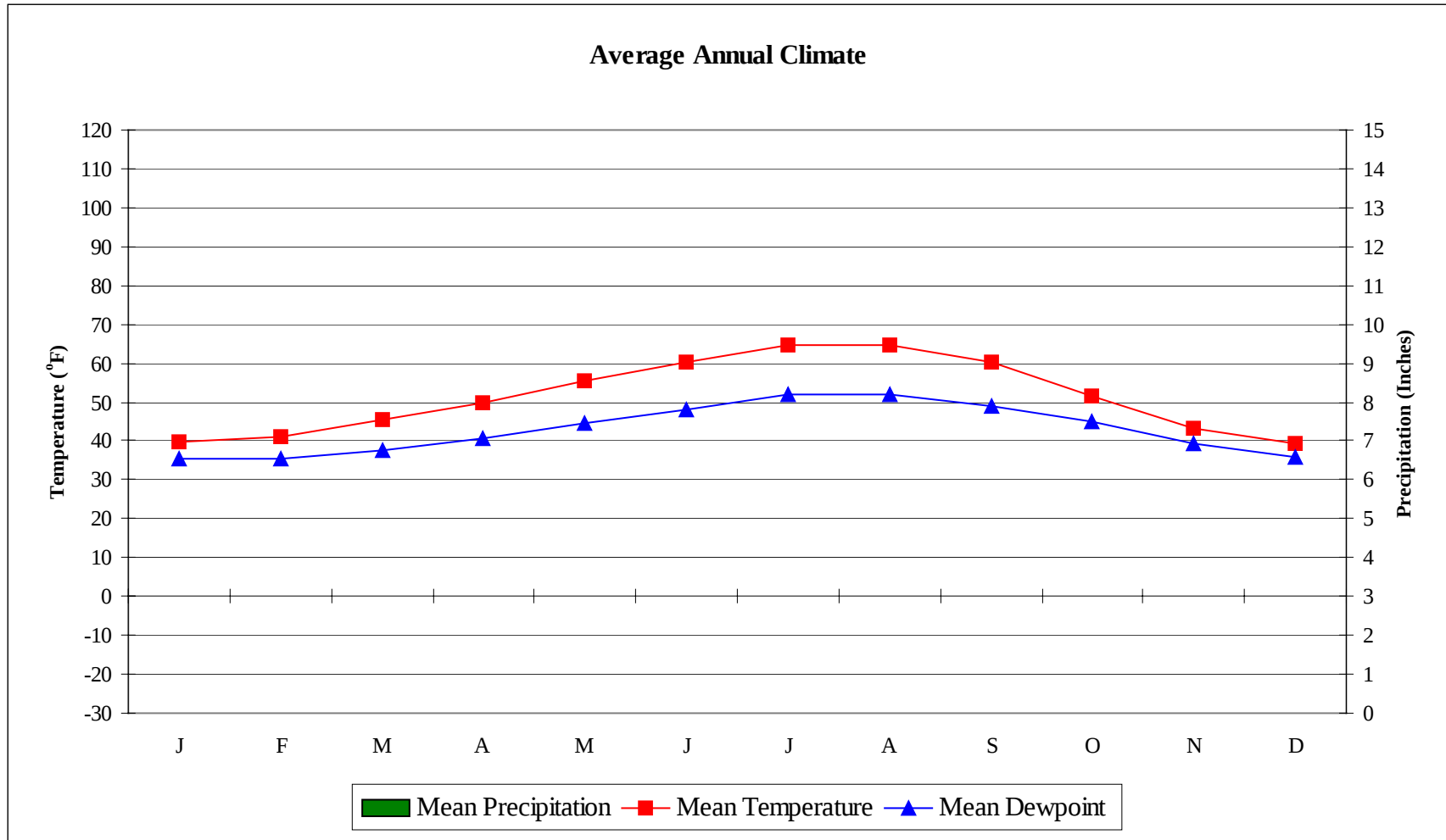
Other Site Data

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
7	1.0	85	0.0 + 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 (#)
53.8	9	20	22

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

BREMERTON WA

WMO No. 727928

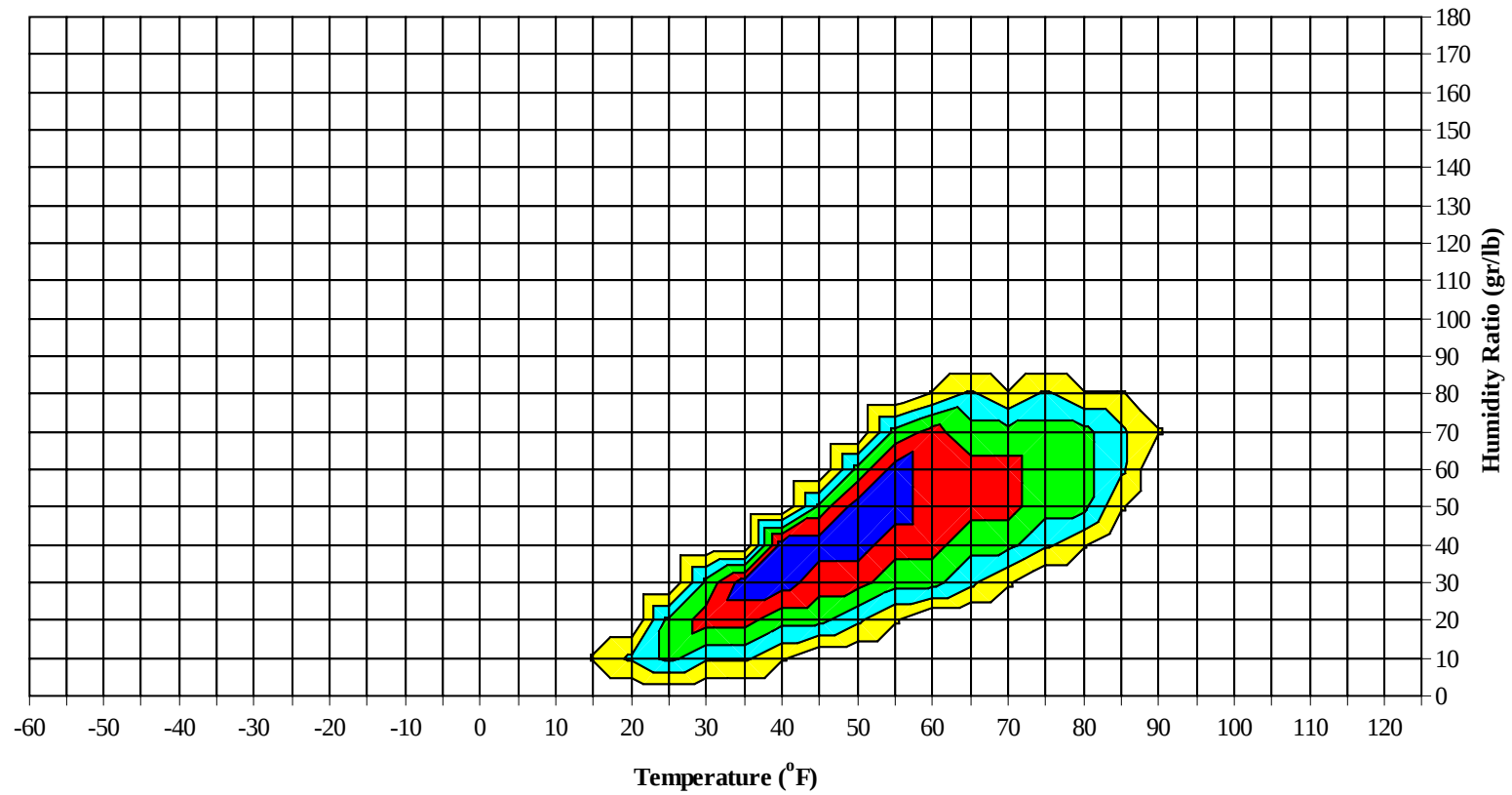


No Precipitation Data Available

BREMERTON WA

WMO No. 727928

Long Term Psychrometric Summary

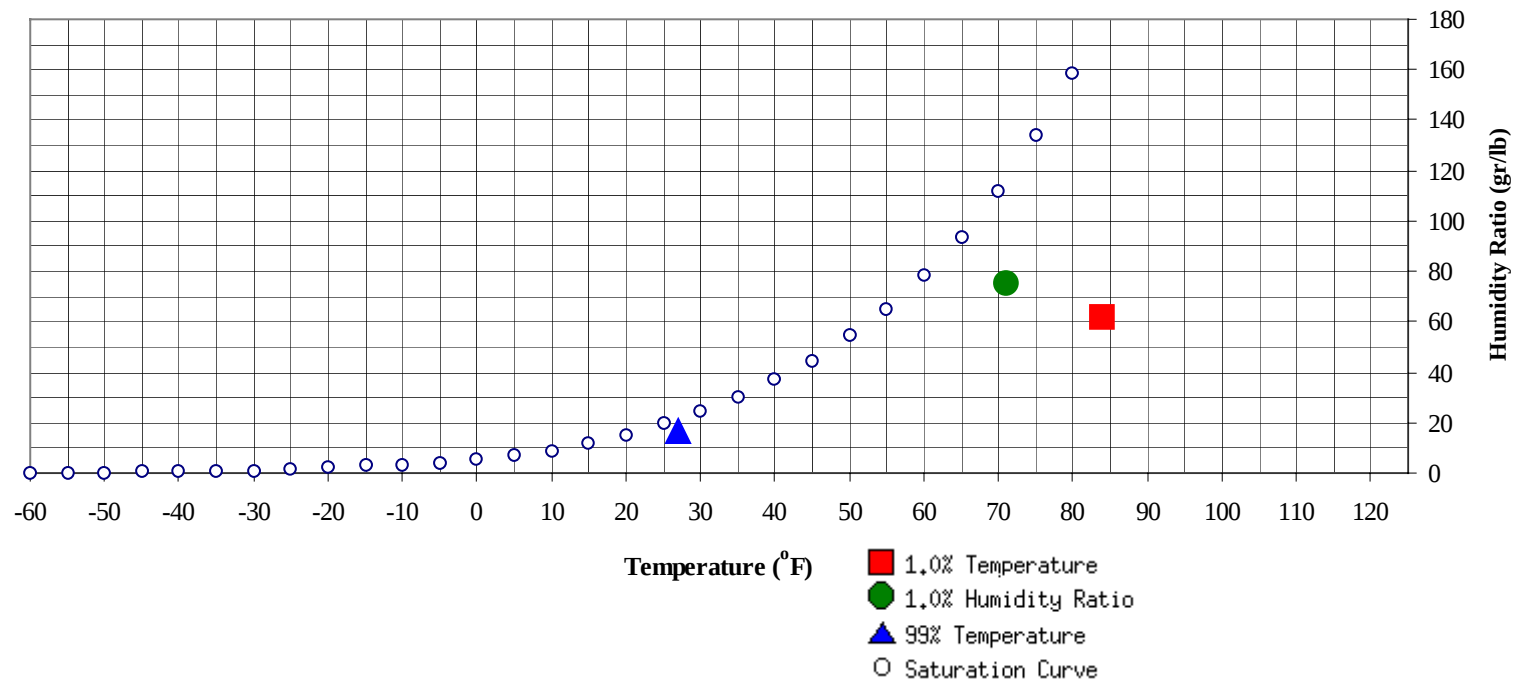


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

BREMERTON WA

WMO No. 727928

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	27	16.9	9.1		75.6	70.9	63.2	59	28.8

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	84	62	64.8	29.9

BREMERTON WA

WMO No. 727928

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												1	0	1	54.1
65 / 69							1	0	1	56.2		3	1	4	51.6
60 / 64		0		0	52.0		3	1	4	49.8	0	8	4	12	50.3
55 / 59		1		1	48.6	0	8	3	10	48.8	0	26	12	38	48.2
50 / 54	5	19	8	31	48.3	9	27	18	53	47.8	6	56	34	96	46.3
45 / 49	37	60	47	144	44.7	30	62	50	141	44.1	42	85	80	208	43.7
40 / 44	65	76	74	214	40.5	48	64	64	176	39.9	78	50	64	192	39.9
35 / 39	57	55	59	171	35.4	49	40	43	133	35.2	75	15	41	131	35.7
30 / 34	57	30	42	129	31.1	54	16	34	104	30.7	36	3	10	49	31.3
25 / 29	17	6	14	37	25.6	16	3	8	27	25.7	11	1	1	12	26.7
20 / 24	8	1	4	13	20.8	9	1	3	12	20.5	0			0	18.7
15 / 19	2	0	1	3	16.3	7	1	1	10	15.7					
10 / 14	2		0	2	12.2	1	0	0	1	11.6					
5 / 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.

BREMERTON WA

WMO No. 727928

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	09	17			01	09	17			01	09	17		
	To 08	To 16	To 00			To 08	To 16	To 00			To 08	To 16	To 00		
100 / 104															
95 / 99						0 0 68.3					0 61.0				
90 / 94						0 0 64.5					2 1 3 65.7				
85 / 89	0 0 61.0					1 0 1 63.5					4 3 7 65.0				
80 / 84	1 0 1 60.2					4 3 7 62.3					0 8 4 12 63.1				
75 / 79	2 1 3 58.4					0 11 6 17 60.0					1 18 10 30 61.4				
70 / 74	5 3 8 56.1					0 16 11 27 58.0					3 25 16 44 59.2				
65 / 69	0	13	7	20	53.7	3	25	17	45	55.9	6	39	27	72	56.7
60 / 64	1	22	14	37	51.6	8	34	24	67	53.1	15	62	49	127	54.4
55 / 59	4	41	25	70	49.3	21	71	52	144	50.6	49	62	59	170	52.5
50 / 54	25	68	51	144	47.0	62	63	75	200	48.2	103	19	52	174	49.5
45 / 49	80	64	80	224	44.1	107	21	47	175	45.1	52	1	16	69	45.6
40 / 44	87	22	47	155	40.7	38	2	11	51	41.2	9	0	1	11	41.0
35 / 39	36	3	10	49	36.7	8	0	2	9	36.2	1		0	1	37.4
30 / 34	7	0	1	8	32.2	1		0	1	32.1					
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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BREMERTON WA

WMO No. 727928

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	71.0			0		0 65.0
95 / 99		0	0	0	68.4		1		1	70.7		0	0	0	72.6
90 / 94		4	3	7	67.6		3	1	4	68.6		1	0	1	66.2
85 / 89		9	6	15	66.5		9	4	14	66.8		3	1	5	63.7
80 / 84		19	10	29	64.9	0	19	10	29	64.6		11	3	14	63.4
75 / 79	1	28	21	50	62.5	1	33	16	50	62.4	0	19	9	27	61.4
70 / 74	5	42	31	78	60.4	4	43	28	75	60.1	1	32	16	49	59.4
65 / 69	12	52	38	103	58.3	10	57	38	105	58.5	4	42	26	72	57.2
60 / 64	36	60	63	159	56.3	35	52	66	153	56.4	15	63	57	135	55.5
55 / 59	99	32	56	187	54.0	110	28	60	198	54.1	72	53	70	195	53.5
50 / 54	81	3	18	102	50.4	66	4	21	91	50.4	81	15	37	133	49.8
45 / 49	12		1	14	46.5	18	0	3	20	45.5	44	2	16	62	45.0
40 / 44	1		0	1	42.1	4		0	4	42.3	15		4	19	40.7
35 / 39											6		1	8	36.3
30 / 34											1			1	31.6
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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BREMERTON WA

WMO No. 727928

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		0		0	66.0										
85 / 89		0	0	0	65.3										
80 / 84		1	0	1	65.1										
75 / 79		2	0	2	61.5										
70 / 74		6	1	7	58.1		0		0	63.0					
65 / 69		15	3	18	56.2		0		0	60.5					
60 / 64	1	33	12	46	54.2		1		1	54.8					
55 / 59	16	67	40	122	52.3	1	11	6	18	53.1	1	0	0	1	54.4
50 / 54	60	73	73	207	49.3	23	40	27	90	49.7	6	12	7	24	49.3
45 / 49	79	42	70	191	45.4	47	84	62	193	44.9	29	53	34	116	44.9
40 / 44	63	9	37	109	41.1	63	67	71	201	40.6	58	81	71	210	40.5
35 / 39	24	1	12	37	36.2	56	24	43	123	36.0	73	61	75	210	36.0
30 / 34	4		0	4	31.9	34	8	23	65	31.2	50	30	44	123	31.5
25 / 29	0		0	0	28.0	10	3	6	19	25.9	22	5	15	41	26.7
20 / 24	1		0	1	17.0	4	1	2	8	20.3	7	3	1	12	20.7
15 / 19						1	0	0	1	15.4	1	1	1	4	16.2
10 / 14						0	0	0	0	10.0	1	1	0	2	11.2
5 / 9											0	0		0	7.3

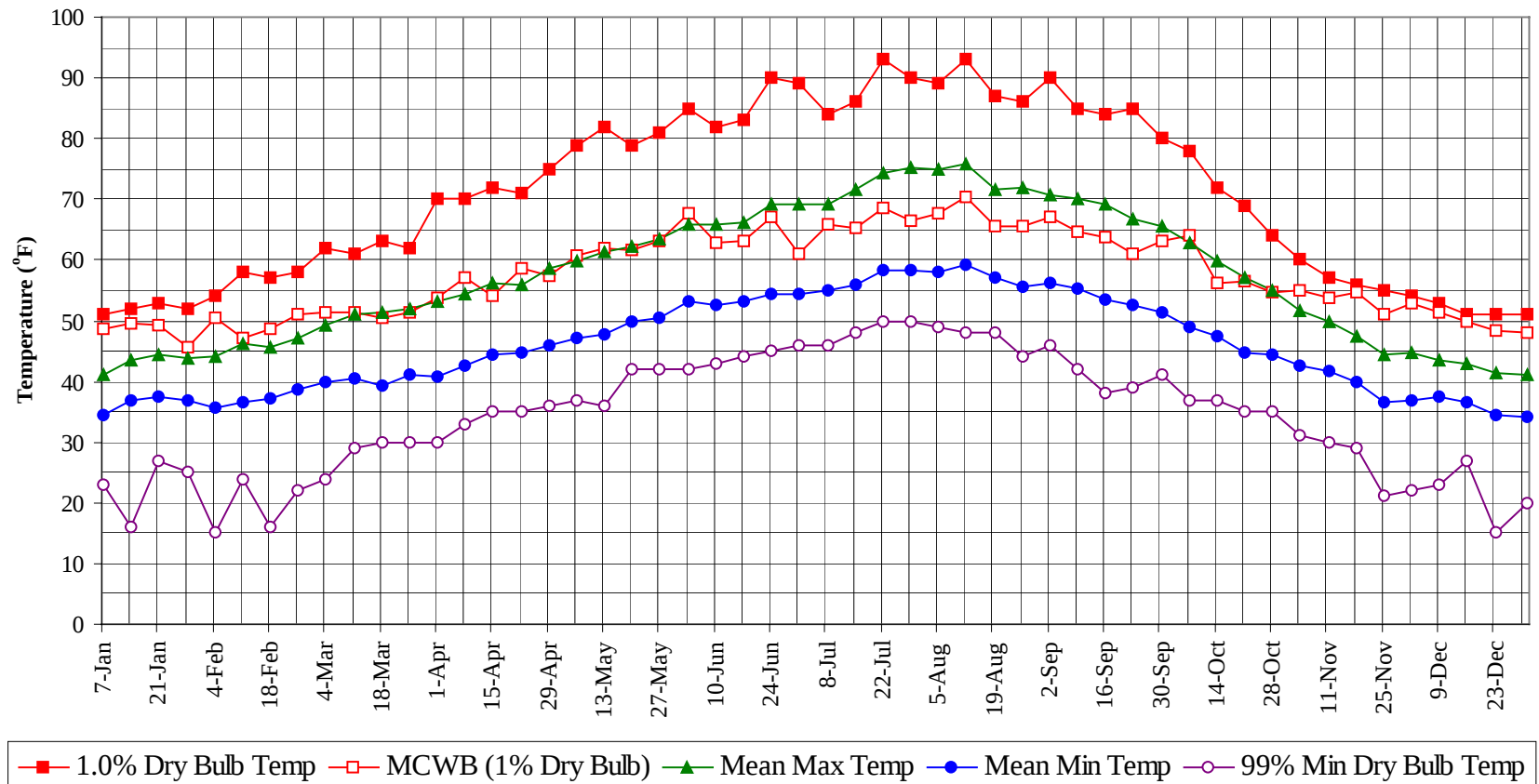
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

BREMERTON WA**WMO No. 727928****Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)****Period of Record = 1973 to 1996**

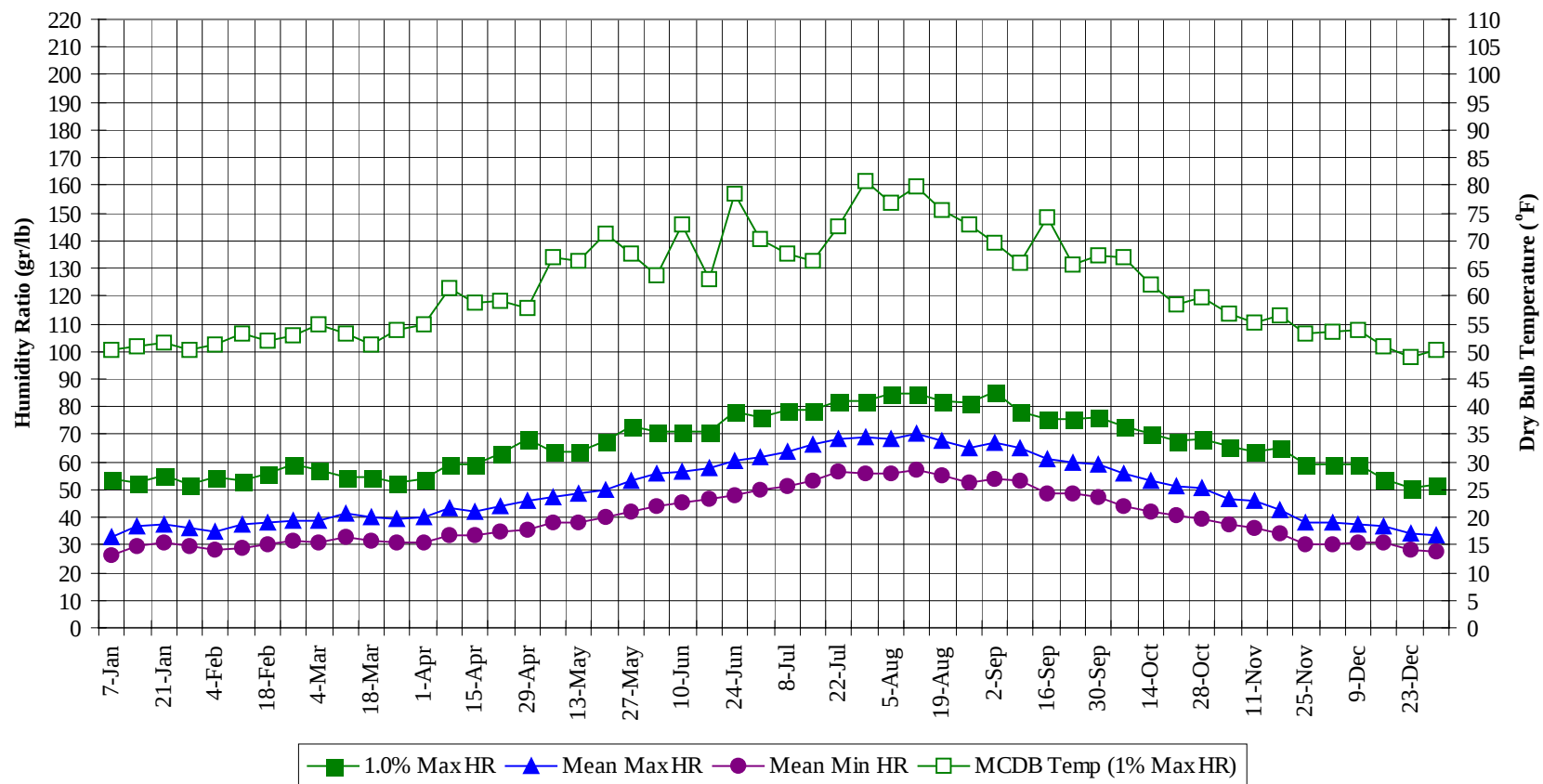
Annual Totals						
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	
	01 To 08	09 To 16	17 To 00			
100 / 104	0			0	69.8	
95 / 99	2			0	2	69.9
90 / 94	10			5	15	67.3
85 / 89	27			14	41	65.9
80 / 84	0	61	29	89	64.1	
75 / 79	4	112	59	175	61.8	
70 / 74	15	169	100	284	59.5	
65 / 69	37	246	145	428	57.3	
60 / 64	118	337	269	724	55.0	
55 / 59	403	399	361	1163	52.4	
50 / 54	552	402	403	1357	48.7	
45 / 49	574	477	516	1566	44.6	
40 / 44	506	370	472	1348	40.4	
35 / 39	366	197	313	876	35.7	
30 / 34	229	85	169	482	31.2	
25 / 29	71	18	49	138	26.1	
20 / 24	29	7	11	46	20.5	
15 / 19	11	3	4	18	15.9	
10 / 14	5	1	1	7	11.5	
5 / 9	0	0		0	7.3	

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

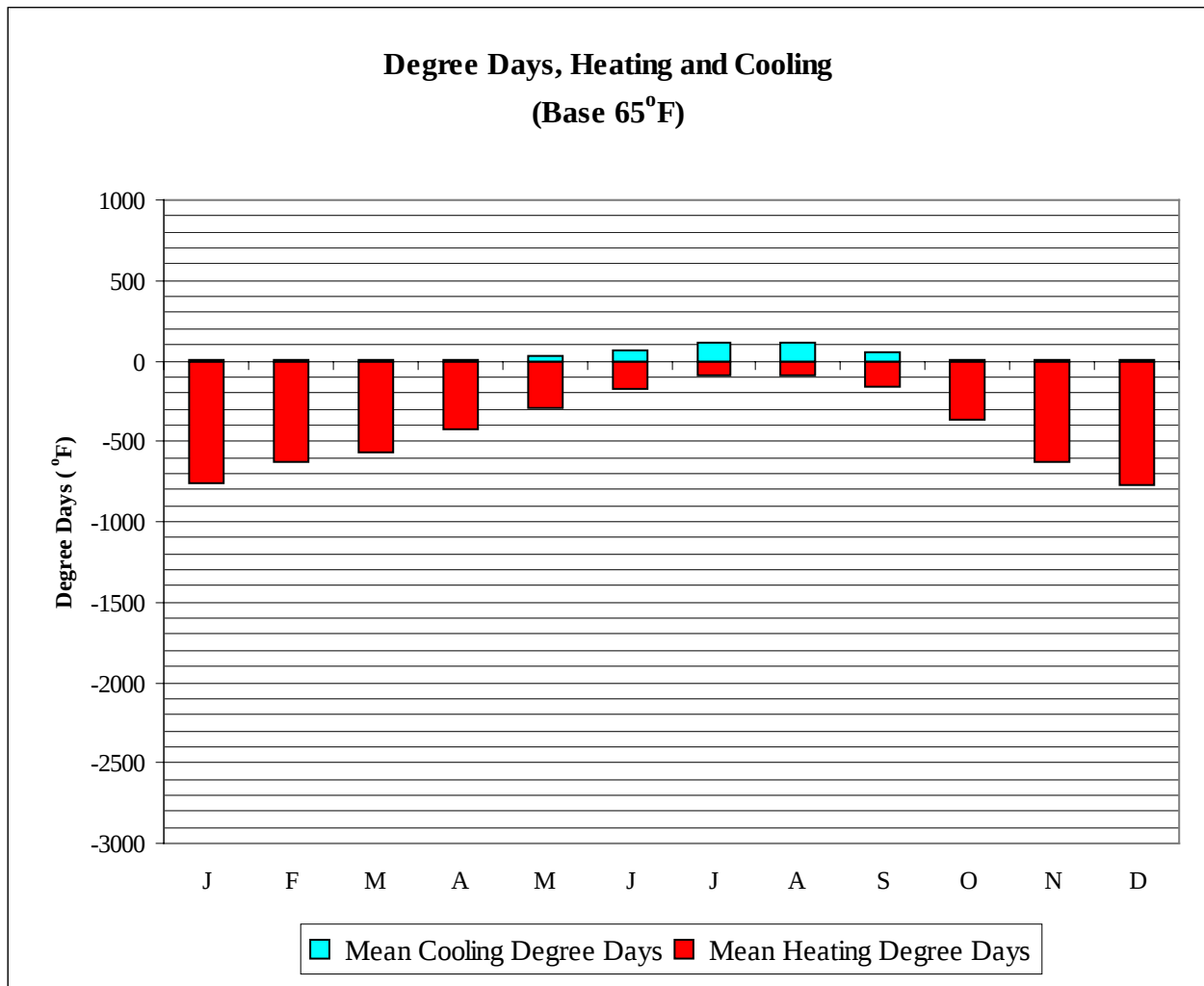


Long Term Humidity and Dry Bulb Temperature Summary



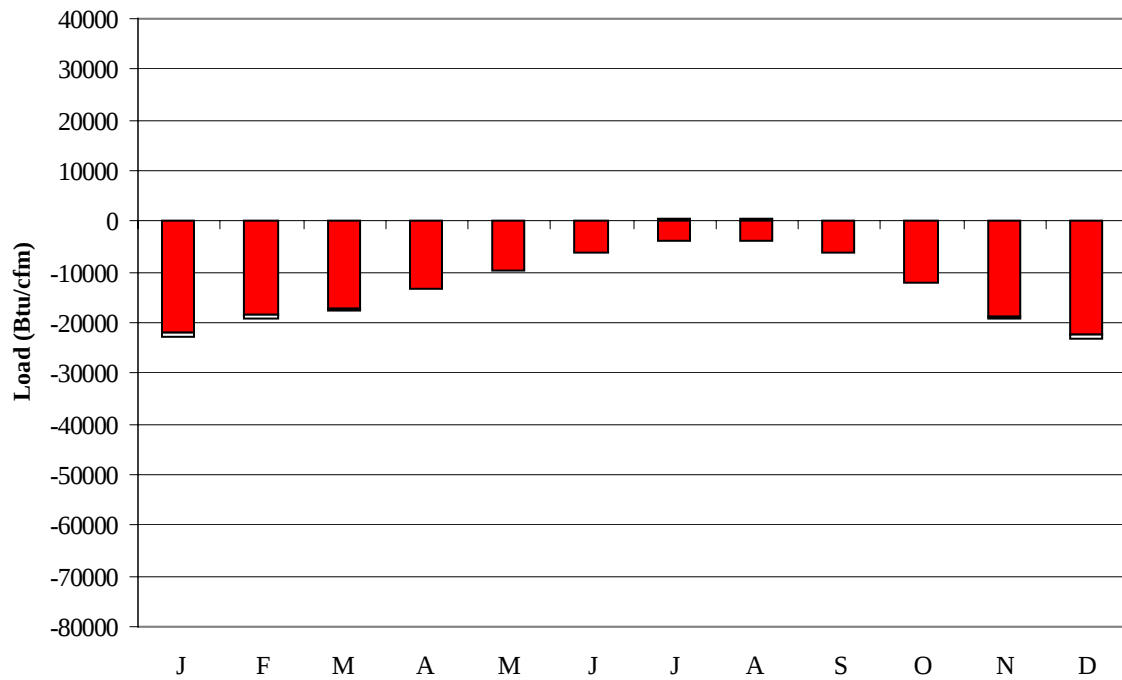
BREMERTON WA**WMO No. 727928****Long Term Dry Bulb Temperature and Humidity Summary**

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	51.0	48.5	41.1	34.4	23.0	53.9	50.3	33.0	26.5
14-Jan	52.0	49.7	43.6	36.7	16.0	52.5	50.9	36.6	29.8
21-Jan	53.0	49.4	44.3	37.5	27.0	55.3	51.5	37.6	31.0
28-Jan	52.0	45.6	43.7	36.8	25.0	51.8	50.1	36.4	29.6
4-Feb	54.0	50.3	44.0	35.5	15.0	54.6	51.1	35.0	28.3
11-Feb	58.0	47.3	46.3	36.7	24.0	53.2	53.3	37.2	28.8
18-Feb	57.0	48.7	45.6	37.2	16.0	56.0	51.9	38.1	30.1
25-Feb	58.0	51.2	47.2	38.6	22.0	58.8	53.0	39.0	31.3
4-Mar	62.0	51.5	49.3	39.8	24.0	57.4	55.0	38.7	31.1
11-Mar	61.0	51.3	51.2	40.4	29.0	54.6	53.4	41.2	32.5
18-Mar	63.0	50.3	51.2	39.4	30.0	54.6	51.3	40.0	31.2
25-Mar	62.0	51.4	52.1	41.2	30.0	52.5	53.8	39.5	31.2
1-Apr	70.0	53.8	53.0	40.9	30.0	53.9	54.9	39.8	30.9
8-Apr	70.0	57.0	54.3	42.7	33.0	58.8	61.3	43.1	33.7
15-Apr	72.0	54.1	56.1	44.3	35.0	58.8	58.8	42.0	33.2
22-Apr	71.0	58.8	55.8	44.7	35.0	63.0	59.2	44.1	34.8
29-Apr	75.0	57.3	58.7	46.1	36.0	68.6	57.8	46.1	35.8
6-May	79.0	60.8	59.8	47.2	37.0	63.7	67.1	47.5	38.1
13-May	82.0	62.0	61.3	47.9	36.0	63.7	66.5	48.6	38.0
20-May	79.0	61.6	62.4	49.7	42.0	67.9	71.2	50.0	40.2
27-May	81.0	63.0	63.6	50.5	42.0	72.8	67.5	53.0	42.3
3-Jun	85.0	67.6	65.9	53.2	42.0	70.7	63.7	55.9	44.0
10-Jun	82.0	62.8	65.9	52.7	43.0	70.7	73.0	56.3	45.6
17-Jun	83.0	63.1	66.0	53.1	44.0	70.7	63.2	57.6	46.6
24-Jun	90.0	67.1	69.3	54.5	45.0	78.4	78.5	60.4	48.2
1-Jul	89.0	61.0	69.2	54.4	46.0	76.3	70.2	61.5	49.7
8-Jul	84.0	65.8	69.3	54.9	46.0	79.1	67.8	63.8	51.3
15-Jul	86.0	65.3	71.7	55.9	48.0	79.1	66.5	66.3	52.9
22-Jul	93.0	68.6	74.4	58.2	50.0	81.9	72.6	68.3	56.3
29-Jul	90.0	66.5	75.3	58.4	50.0	81.9	80.7	69.0	56.1
5-Aug	89.0	67.6	74.8	58.0	49.0	84.7	76.7	68.3	56.0
12-Aug	93.0	70.3	75.8	59.2	48.0	84.7	79.6	70.2	57.0
19-Aug	87.0	65.5	71.7	57.1	48.0	81.9	75.6	67.5	55.1
26-Aug	86.0	65.5	72.0	55.5	44.0	81.2	72.8	65.3	52.8
2-Sep	90.0	67.0	70.8	56.3	46.0	85.4	69.8	66.7	54.1
9-Sep	85.0	64.7	70.2	55.4	42.0	78.4	66.1	64.9	53.3
16-Sep	84.0	63.9	69.3	53.5	38.0	75.6	74.3	60.8	48.5
23-Sep	85.0	61.1	66.9	52.6	39.0	75.6	65.8	59.5	48.4
30-Sep	80.0	63.3	65.5	51.3	41.0	76.3	67.3	59.2	47.1
7-Oct	78.0	64.2	62.9	48.9	37.0	72.8	66.9	55.9	44.0
14-Oct	72.0	56.3	59.8	47.4	37.0	70.0	62.1	53.1	42.4
21-Oct	69.0	56.5	57.1	44.9	35.0	67.9	58.6	51.3	40.5
28-Oct	64.0	54.8	55.0	44.4	35.0	68.6	59.8	50.9	39.7
4-Nov	60.0	54.9	51.8	42.7	31.0	65.8	56.8	46.6	37.8
11-Nov	57.0	53.7	49.8	41.7	30.0	63.7	55.2	45.8	36.3
18-Nov	56.0	54.6	47.5	40.0	29.0	65.1	56.5	42.5	34.3
25-Nov	55.0	51.1	44.5	36.6	21.0	58.8	53.4	37.9	30.5
2-Dec	54.0	52.9	44.6	36.9	22.0	58.8	53.5	37.9	30.1
9-Dec	53.0	51.4	43.6	37.3	23.0	58.8	53.8	37.5	30.8
16-Dec	51.0	49.8	43.0	36.5	27.0	53.9	50.9	37.1	30.6
23-Dec	51.0	48.4	41.4	34.5	15.0	50.4	48.9	34.3	28.2
31-Dec	51.0	48.1	41.0	34.3	20.0	51.8	50.2	33.7	27.4



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	755
FEB	0	627
MAR	0	568
APR	6	421
MAY	32	292
JUN	60	170
JUL	113	93
AUG	117	94
SEP	57	162
OCT	6	371
NOV	0	627
DEC	0	768
ANN	393	4948

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	Average Sensible Heating Load	Average Latent Cooling Load	Average Latent Heating Load
	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)
JAN	0	-22012	0	-693
FEB	0	-18531	0	-760
MAR	0	-17303	0	-450
APR	7	-13375	2	-96
MAY	105	-9857	3	-33
JUN	256	-6345	6	-2
JUL	604	-3966	21	-1
AUG	569	-3943	24	0
SEP	220	-6097	4	-13
OCT	9	-12034	0	-85
NOV	0	-18625	0	-412
DEC	0	-22326	0	-678
ANN	1770	-154414	60	-3223

Average Annual Solar Radiation – Nearest Available Site

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

City: SEATTLE
 State: WA
 WBAN No: 24233
 Lat(N): 47.45
 Long(W): 122.3
 Elev(ft): 400

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.749
 Vert Gap: 0.326

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	310	520	890	1290	1680	1830	1920	1630	1190	700	370	250	1050
	Std Dev	40	74	94	117	128	169	135	148	111	83	43	28	34
	Minimum	250	380	750	1090	1460	1530	1650	1320	870	570	290	200	1000
	Maximum	380	680	1140	1510	1920	2130	2110	1880	1420	890	450	320	1140
	Diffuse	220	320	500	700	830	880	770	670	520	390	250	180	520
Clear Day	Global	570	900	1430	2020	2450	2630	2520	2160	1620	1050	630	470	1540
NORTH	Global	120	190	290	410	530	600	580	460	330	230	140	100	330
	Diffuse	120	190	290	400	490	540	510	430	330	230	140	100	320
Clear Day	Global	130	190	280	400	570	690	640	460	310	220	140	110	350
EAST	Global	200	330	540	730	900	960	1010	880	680	420	240	170	590
	Diffuse	140	220	350	480	580	620	590	520	400	280	170	120	370
Clear Day	Global	500	710	1030	1320	1490	1560	1520	1370	1120	810	540	430	1030
SOUTH	Global	480	690	890	940	940	900	990	1060	1090	850	530	420	820
	Diffuse	210	300	430	530	590	600	580	550	470	370	240	180	420
Clear Day	Global	1620	1820	1870	1620	1340	1210	1250	1480	1750	1820	1650	1510	1580
WEST	Global	210	350	580	800	1020	1090	1190	1050	800	490	250	170	670
	Diffuse	150	230	360	500	600	640	620	540	420	290	170	120	390
Clear Day	Global	500	710	1030	1320	1490	1560	1520	1370	1120	810	540	430	1030

Average Annual Solar Heat and Illumination – Nearest Available Site

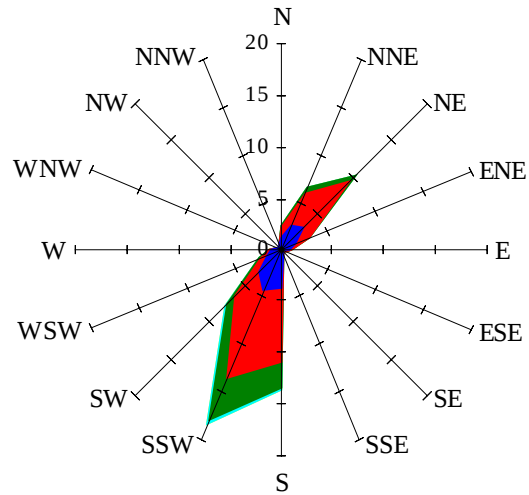
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	200	350	620	920	1210	1320	1390	1170	840	480	240	160	740
NORTH	Unshaded	85	130	200	280	360	400	380	310	230	160	98	71	230
	Shaded	65	100	160	230	290	330	320	260	190	130	76	55	180
EAST	Unshaded	140	230	380	510	630	680	720	620	480	290	160	110	410
	Shaded	110	190	300	400	480	510	550	480	380	240	130	93	320
SOUTH	Unshaded	360	510	640	640	610	570	630	710	760	620	390	310	560
	Shaded	340	460	470	360	330	340	330	350	490	510	360	300	390
WEST	Unshaded	150	250	410	570	720	780	850	750	570	340	170	120	470
	Shaded	120	200	330	440	560	600	660	590	460	280	140	97	370

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	29	57	67	55	23	46	78	96	93	70
	M.Cloudy	16	33	40	32	14	25	46	63	62	45
NORTH	M.Clear	8	12	14	12	7	14	15	16	16	14
	M.Cloudy	7	12	14	12	6	11	16	19	19	15
EAST	M.Clear	61	52	14	12	7	77	72	33	16	14
	M.Cloudy	19	25	14	12	6	26	35	27	19	15
SOUTH	M.Clear	35	72	85	68	27	11	39	59	55	30
	M.Cloudy	13	31	38	29	11	10	24	38	37	21
WEST	M.Clear	8	12	18	60	58	11	15	16	49	79
	M.Cloudy	7	12	15	27	19	10	16	19	34	42
M.Clear	(% hrs)	17	17	19	20	19	24	27	28	30	32
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	22	56	73	69	43	4	24	30	17	0
	M.Cloudy	12	30	45	43	26	3	13	15	9	0
NORTH	M.Clear	7	12	15	14	11	2	7	8	6	0
	M.Cloudy	5	12	15	15	10	1	6	7	4	0
EAST	M.Clear	56	66	29	14	11	14	30	8	6	0
	M.Cloudy	14	26	21	15	10	3	9	7	4	0
SOUTH	M.Clear	19	58	80	74	43	13	62	73	47	0
	M.Cloudy	7	24	39	38	21	3	15	17	10	0
WEST	M.Clear	7	12	15	48	71	2	7	15	34	0
	M.Cloudy	5	12	15	28	30	1	6	8	8	0
M.Clear	(% hrs)	30	32	40	44	44	11	12	13	13	16

Wind Summary - December, January, and February

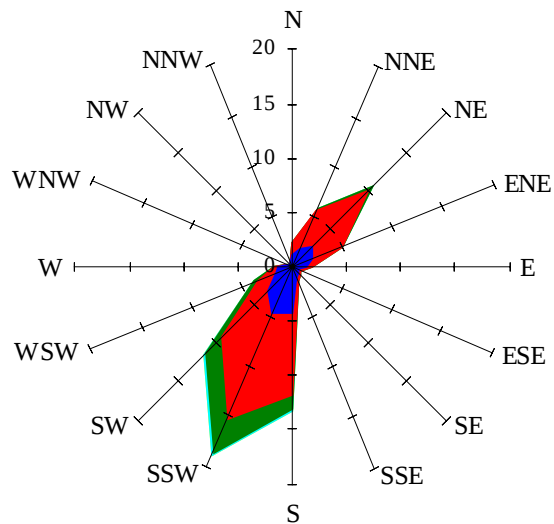
Labels of Percent Frequency on North Axis



Percent Calm = 31.26

Wind Summary - March, April, and May

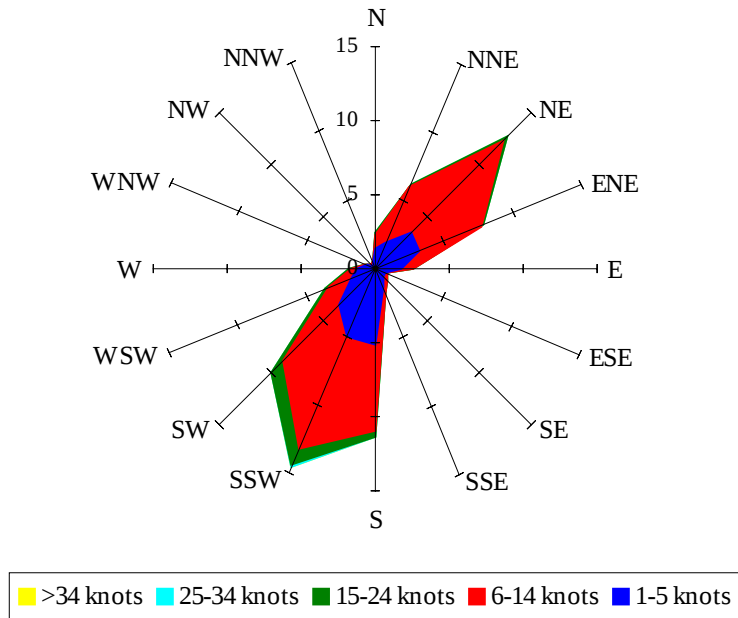
Labels of Percent Frequency on North Axis



Percent Calm = 21.39

Wind Summary - June, July, and August

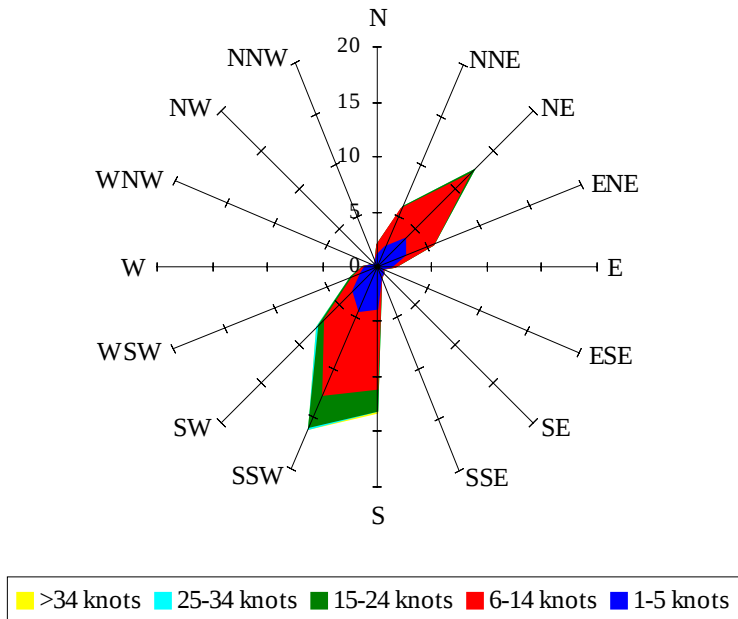
Labels of Percent Frequency on North Axis



Percent Calm = 21.98

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 28.32