BELLINGHAM WA	
Latitude = 48.80 N	WMO No. 727976
Longitude =122.50 W	Elevation = 157 feet
Period of Record = 1973 to 1996	Average Pressure = 29.82 inches Hg

Design Criteria Data

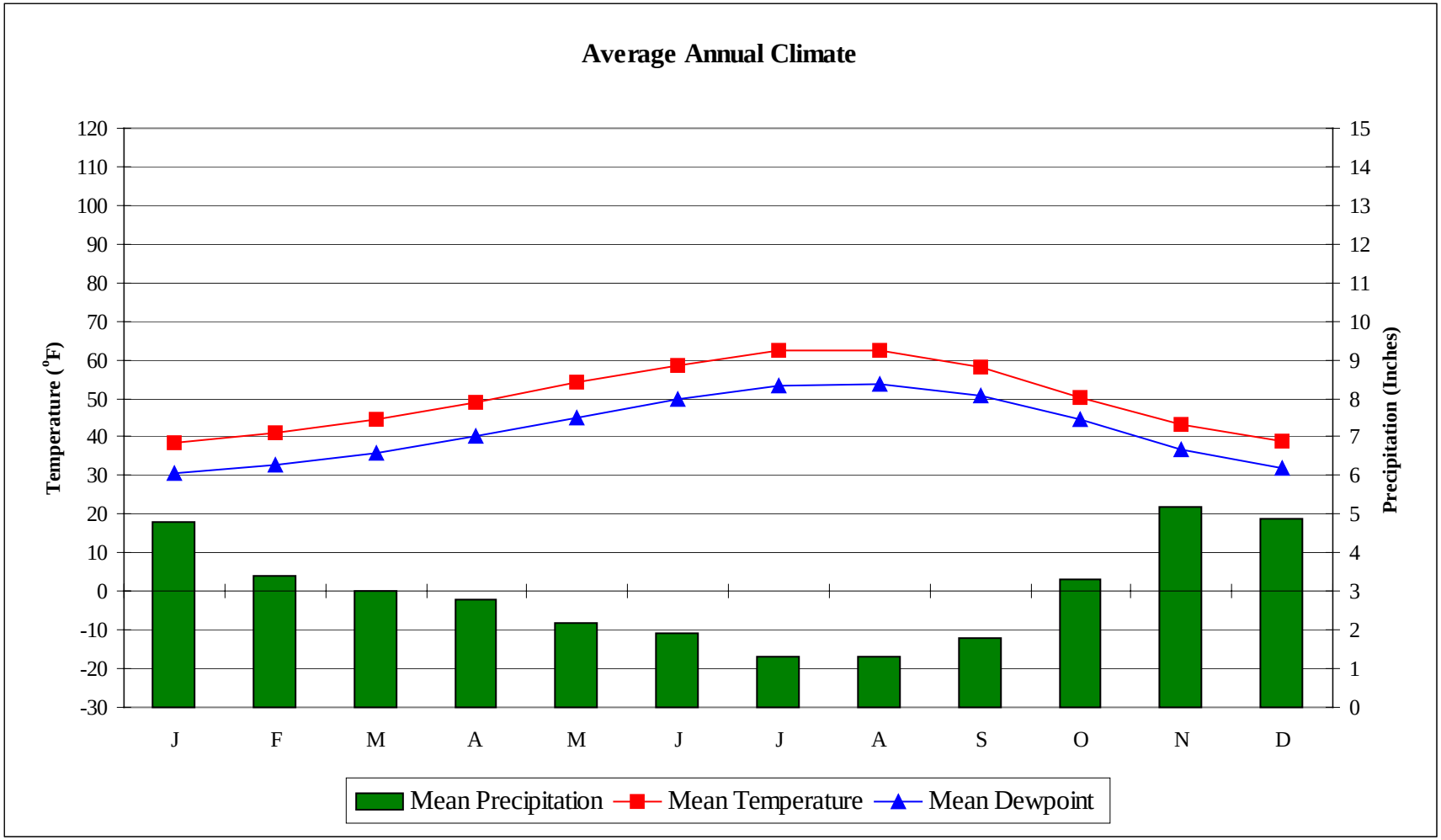
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	87	69	75	8.3	WNW
0.4% Occurrence	80	66	72	8.4	WNW
1.0% Occurrence	76	64	70	8.3	W
2.0% Occurrence	73	62	67	8.6	SSW
Mean Daily Range	14	-	-	-	-
97.5% Occurrence	27	25	15	7.6	NNE
99.0% Occurrence	22	19	10	10.8	NNE
99.6% Occurrence	18	15	7	12.5	NNE
Median of Extreme Lows	13	11	5	15.5	NE
		Mean Coincident (Average) Values			
Wet Bulb Temperature (T_{wb})	**Design Value (^oF)**	Dry Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	70	81	89	7.4	W
0.4% Occurrence	67	78	80	8.0	WNW
1.0% Occurrence	65	75	75	7.8	SSW
2.0% Occurrence	63	72	71	8.4	SSW
		Mean Coincident (Average) Values			
Humidity Ratio (HR)	**Design Value (gr/lb)**	Dry Bulb Temperature (^oF)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	97	78	0.65	6.7	W
0.4% Occurrence	83	74	0.56	7.1	SSW
1.0% Occurrence	78	70	0.52	7.5	SSW
2.0% Occurrence	75	68	0.50	7.8	S
Air Conditioning/		$T \geq 93^oF$	$T \geq 80^oF$	$T_{wb} \geq 73^oF$	$T_{wb} \geq 67^oF$
Humid Area Criteria	# of Hours	0	38	1	42

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
6	1.0	85	0.0 + 0.0
Ground Water Temperature (^oF) 50 Foot Depth *	**Frost Depth 50 Year Recurrence (in.)**	**Ground Snow Load 50 Year Recurrence (lb/ft^2)**	**Average Annual Freeze-Thaw Cycles (#)**
52.6	N/A	N/A	39

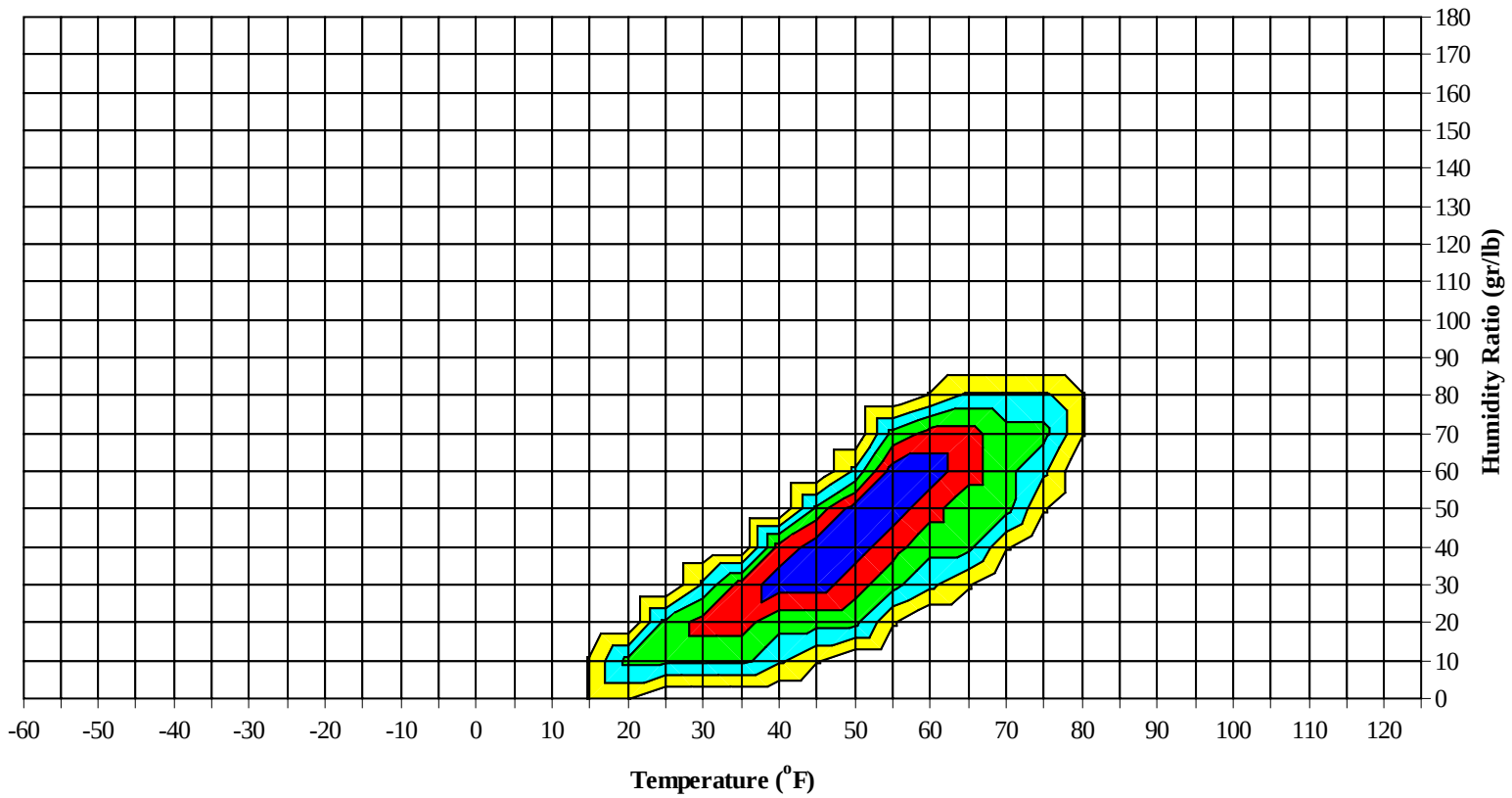
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

BELLINGHAM **WA** WMO No. 727976



BELLINGHAM WA WMO No. 727976

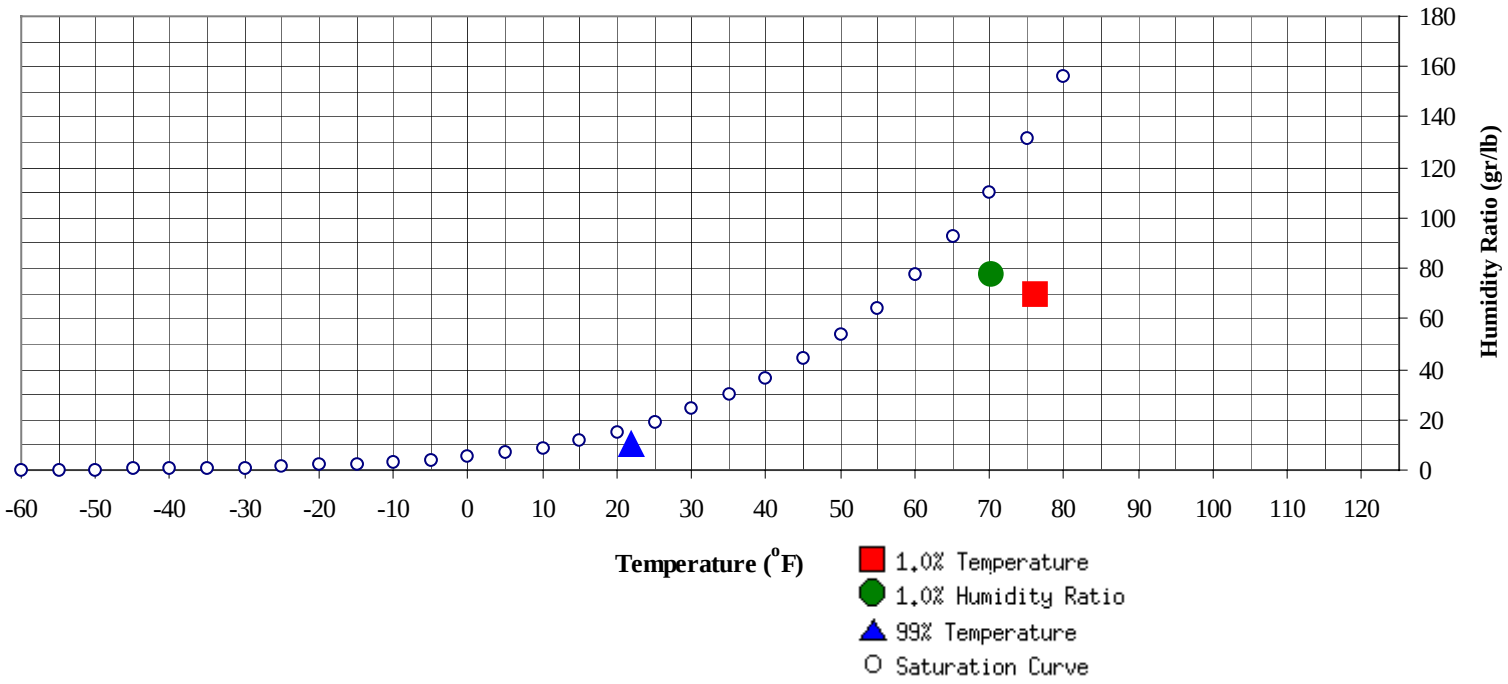
Long Term Psychrometric Summary



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

BELLINGHAM **WA** WMO No. 727976

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	22	10.1	6.8

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	77.7	70.3	63.7	60	29.0

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	76	69.6	63.8	29.1

BELLINGHAM WA WMO No. 727976

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

Period of Record = 1973 to 1996

Temperature Range (°F)	January Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	February Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	March Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74												0		0	55.5
65 / 69	0			0	54.5		0		0	53.8		1	0	1	52.3
60 / 64	0	0	1	1	49.1	1	2	0	3	51.4	0	6	1	7	50.2
55 / 59	3	4	3	10	50.3	3	10	3	16	49.3	2	28	8	38	48.8
50 / 54	11	23	17	51	47.2	11	38	22	71	46.4	13	66	40	119	46.0
45 / 49	33	57	40	130	43.6	35	62	51	147	43.1	54	90	86	230	42.9
40 / 44	54	62	58	174	39.5	52	59	63	173	39.0	83	46	75	204	39.2
35 / 39	42	44	49	135	34.4	52	30	45	127	34.3	52	9	29	90	35.0
30 / 34	49	35	46	130	29.5	42	17	28	87	29.7	35	1	6	42	30.5
25 / 29	32	13	21	66	24.4	18	5	9	32	24.9	7	1	2	10	25.6
20 / 24	16	6	10	32	19.6	7	1	2	10	19.7	2	0	1	3	20.0
15 / 19	6	2	3	11	14.9	3	0	1	4	15.1	0			0	15.5
10 / 14	2	1	1	4	10.5	1	0	0	1	8.9					
5 / 9	0		0	0	6.6	0	0	0	0	3.9					
0 / 4	0		0	0	2.2	0			0	2.0					

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.

BELLINGHAM WA WMO No. 727976

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)				MCWB	Hour Group (LST)				MCWB	Hour Group (LST)				MCWB
	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)
90 / 94															
85 / 89												1	0	1	65.9
80 / 84							1	0	1	65.6		4	2	6	65.1
75 / 79		0		0	59.0		3	1	4	62.0		8	3	11	63.9
70 / 74		3	1	4	56.2	0	12	5	17	59.7	0	21	9	30	60.9
65 / 69	0	9	2	11	54.4	1	24	11	36	57.1	3	46	25	74	58.2
60 / 64	1	25	8	34	52.5	4	50	28	82	54.1	16	82	62	160	55.4
55 / 59	5	48	29	82	50.0	28	83	71	182	51.4	88	64	90	243	52.9
50 / 54	37	85	71	193	46.9	101	64	89	254	48.2	107	14	44	166	49.6
45 / 49	87	60	82	229	43.6	83	10	38	131	44.5	22	0	4	26	45.6
40 / 44	73	10	40	123	39.9	26	0	6	32	40.7	3		0	3	41.8
35 / 39	29	0	6	35	35.8	5		0	5	36.2	0			0	38.0
30 / 34	8	0	0	8	31.4	0			0	33.0					
25 / 29	0			0	27.3										
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 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.

BELLINGHAM WA WMO No. 727976

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)				MCWB	Hour Group (LST)				MCWB	Hour Group (LST)				MCWB
	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)
90 / 94		0	0	0	67.0		0		0	69.3					
85 / 89		2	1	3	68.5		2	1	3	68.7		0		0	65.6
80 / 84		8	3	11	66.8		8	3	11	67.4		3	0	3	64.0
75 / 79		23	9	32	64.7	0	21	8	29	65.0		11	2	13	63.1
70 / 74	1	44	22	67	61.8	1	48	21	69	62.1	0	28	7	35	61.5
65 / 69	8	65	48	121	59.4	7	70	47	123	59.5	1	48	18	67	58.9
60 / 64	50	77	94	222	57.0	56	76	98	230	57.5	18	79	55	152	56.6
55 / 59	138	26	61	225	54.2	134	23	61	218	54.6	75	57	89	221	54.1
50 / 54	46	2	10	58	50.5	39	0	10	49	50.6	86	12	54	152	50.5
45 / 49	5		0	5	46.2	10		0	10	46.4	42	1	14	57	46.1
40 / 44	0			0	43.5	1			1	40.8	15		2	17	41.5
35 / 39											3		0	3	37.0
30 / 34											0			0	33.0
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 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.

BELLINGHAM WA WMO No. 727976

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)				MCWB	Hour Group (LST)				MCWB	Hour Group (LST)				MCWB
	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)
90 / 94															
85 / 89															
80 / 84															
75 / 79		0		0	62.5										
70 / 74	0	2	0	2	58.8										
65 / 69	1	11	2	14	56.6	0	0	0	0	54.5					
60 / 64	4	34	9	47	54.6	2	4	2	8	54.5	0	0	0	0	53.3
55 / 59	21	78	41	139	52.3	8	14	9	31	51.9	3	4	4	11	51.1
50 / 54	69	82	85	236	49.0	25	50	36	112	47.8	14	22	15	51	47.5
45 / 49	65	32	65	163	45.3	60	79	62	201	44.1	39	58	43	141	43.7
40 / 44	48	8	33	89	41.0	53	52	60	166	39.9	51	68	55	174	39.4
35 / 39	30	1	10	41	36.3	38	22	36	96	35.1	50	50	54	155	34.8
30 / 34	10	0	2	12	31.2	28	10	21	59	30.4	41	25	43	109	30.2
25 / 29	0	0	1	1	24.4	17	5	9	31	24.6	29	9	20	58	25.6
20 / 24	0	0		0	18.0	5	2	2	9	19.0	12	6	7	25	19.7
15 / 19						2	1	2	5	14.3	4	4	5	13	14.4
10 / 14						1	0	1	2	10.2	4	1	2	7	9.7
5 / 9						0		0	0	6.8	0	0	0	0	6.9
0 / 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.

BELLINGHAM WA WMO No. 727976

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

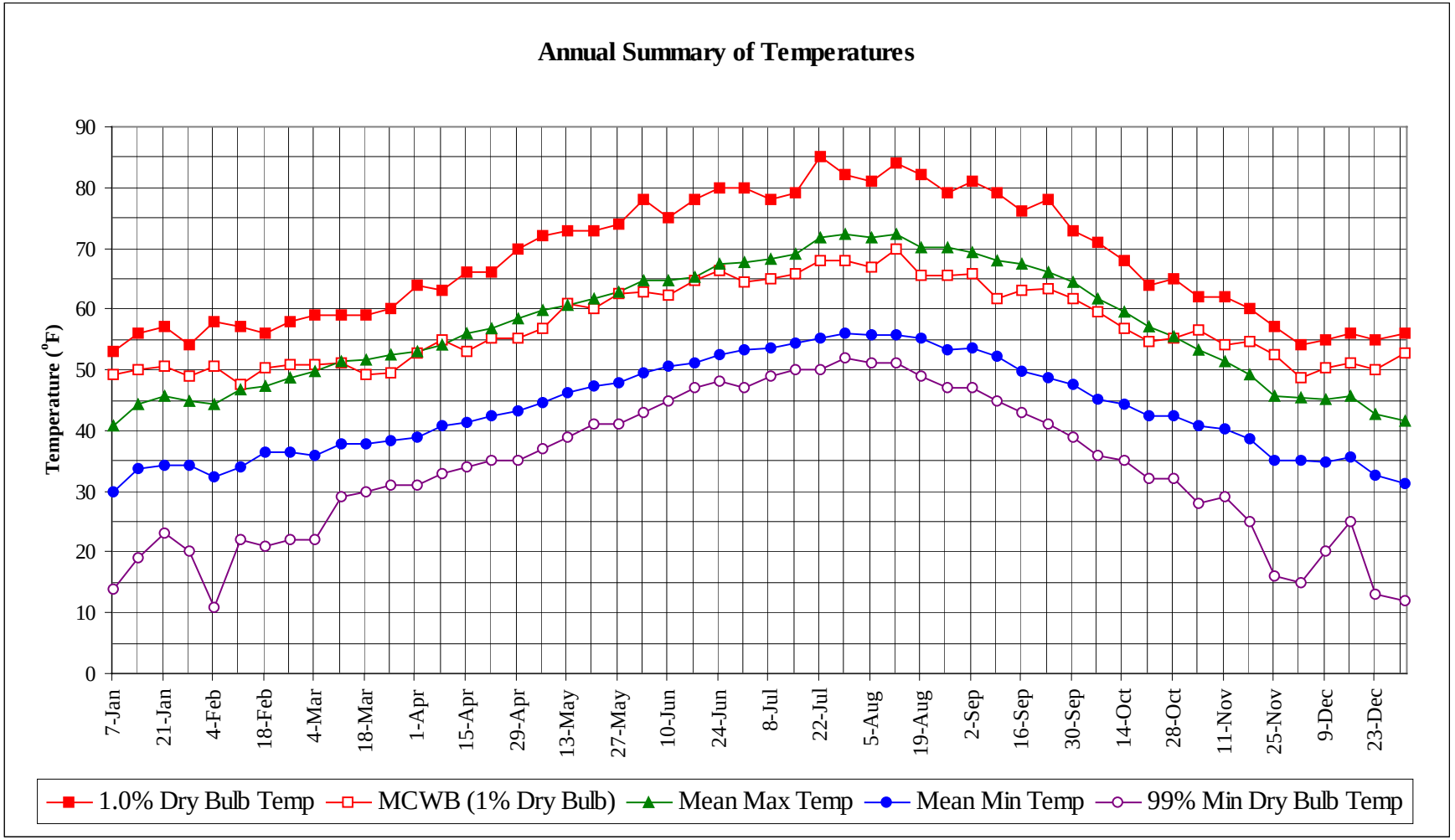
Period of Record = 1973 to 1996

Annual Totals

Temperature Range (°F)	Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
90 / 94		0	0	0	68.8
85 / 89		4	2	6	68.1
80 / 84		24	8	32	66.4
75 / 79	0	67	23	90	64.3
70 / 74	3	156	65	224	61.4
65 / 69	20	275	153	448	58.7
60 / 64	152	437	360	950	56.2
55 / 59	508	437	467	1412	52.9
50 / 54	559	456	491	1506	48.4
45 / 49	534	448	486	1468	43.9
40 / 44	459	306	391	1156	39.6
35 / 39	301	158	230	689	34.9
30 / 34	214	89	147	450	30.0
25 / 29	105	34	61	200	24.9
20 / 24	42	15	21	78	19.6
15 / 19	15	8	11	34	14.7
10 / 14	8	3	4	15	9.9
5 / 9	1	0	1	2	5.7
0 / 4	0		0	0	2.2

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.

BELLINGHAM WA WMO No. 727976



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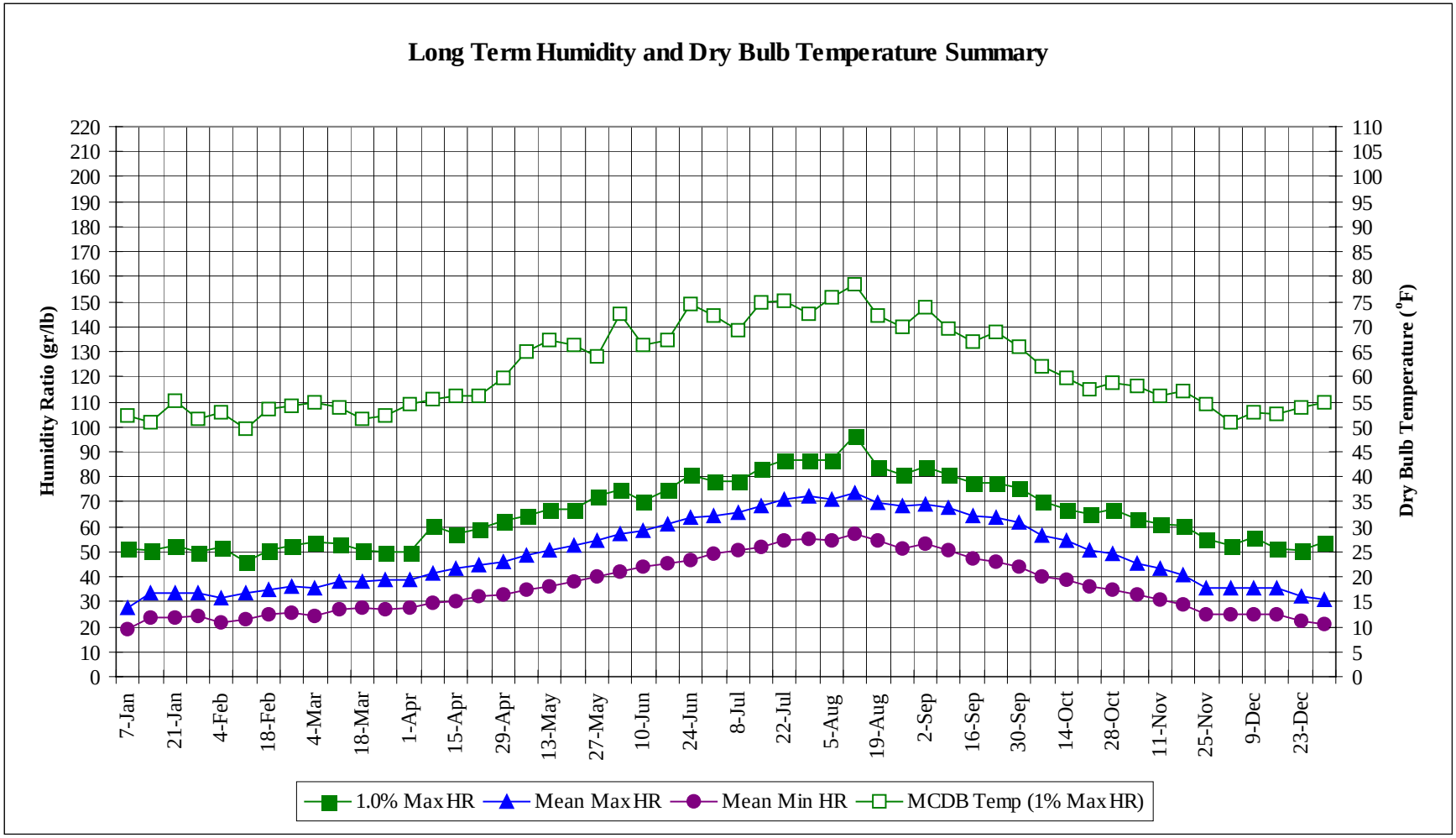
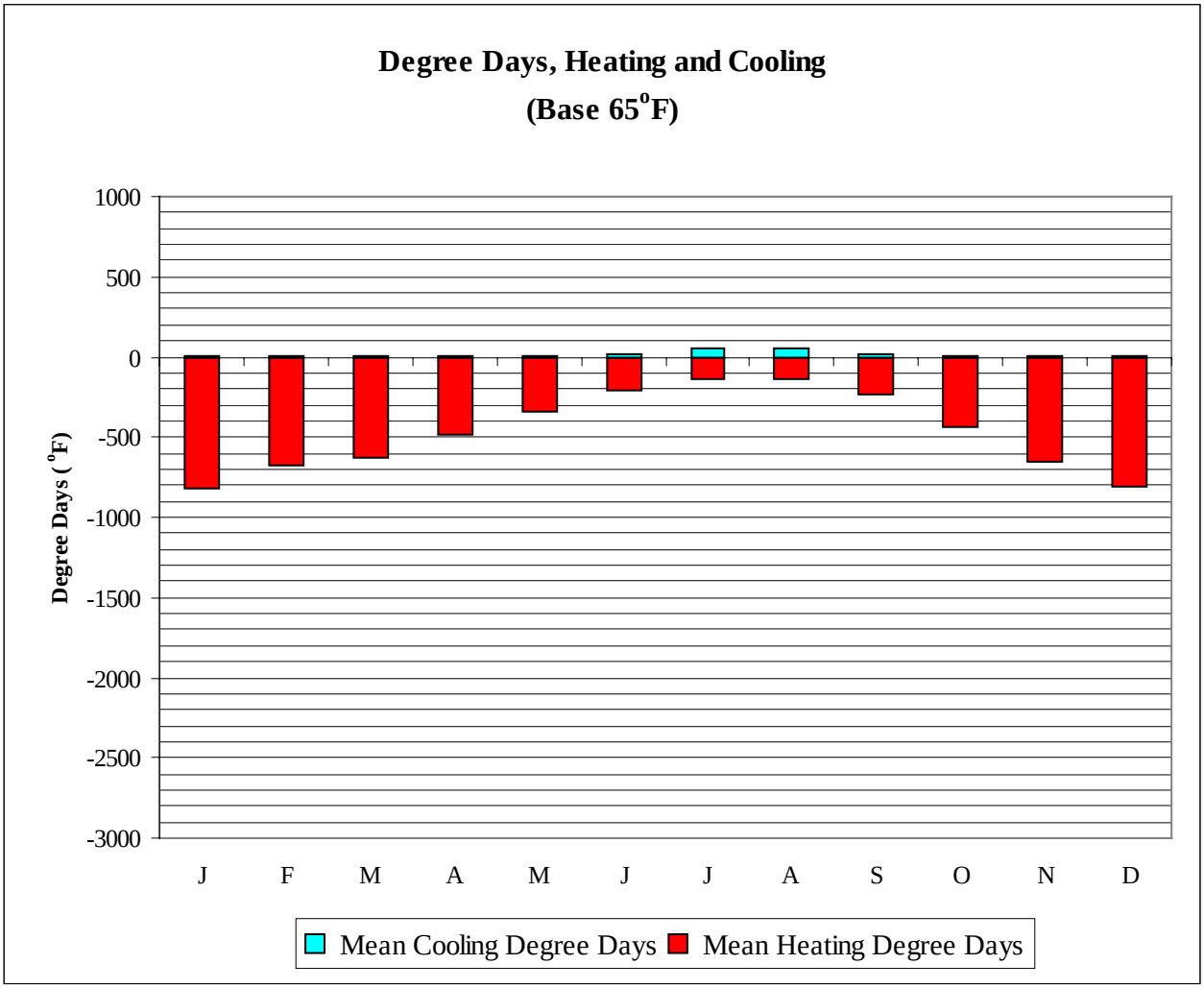


BELLINGHAM WA WMO No. 727976

Long Term Dry Bulb Temperature and Humidity Summary

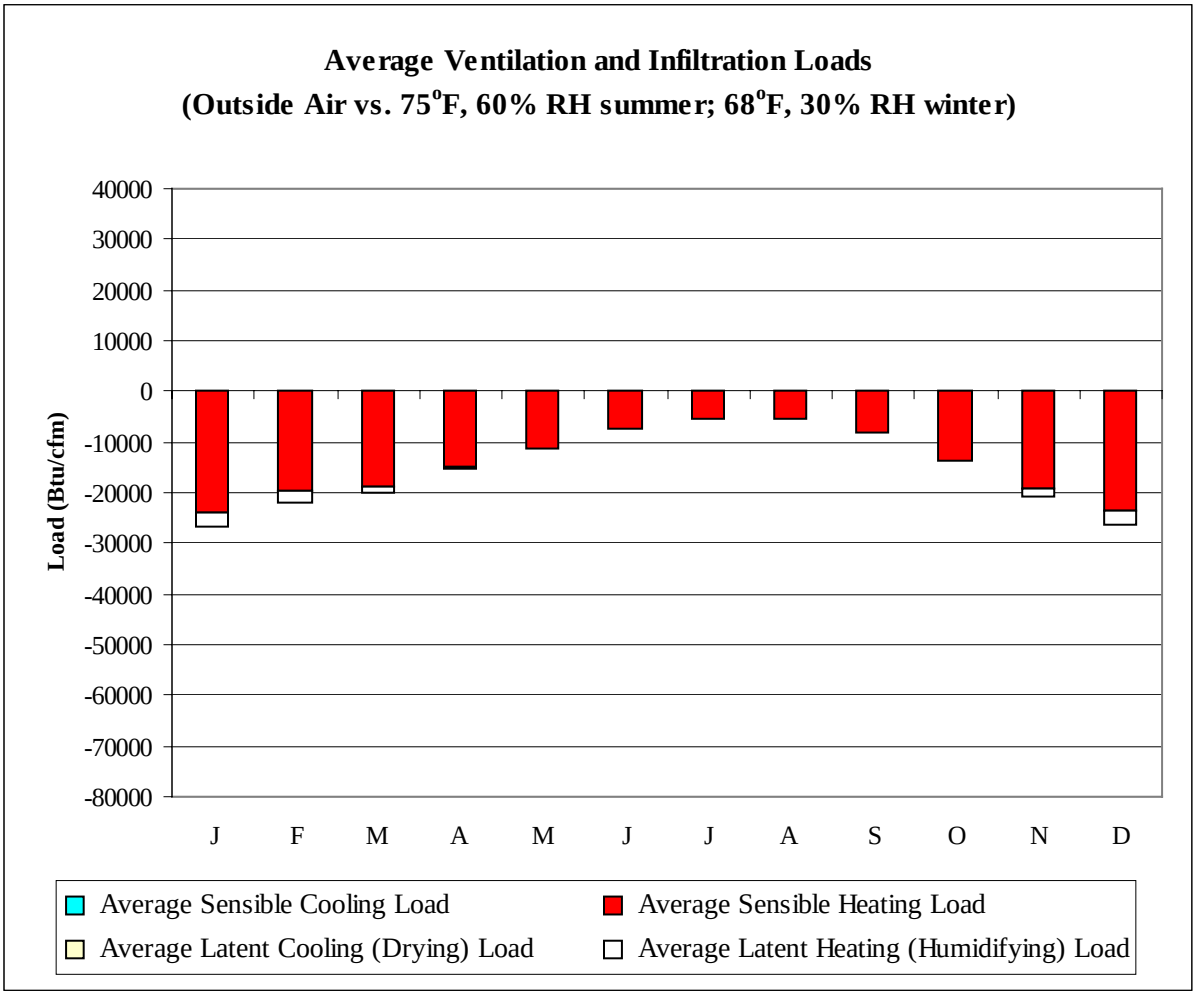
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	53.0	49.3	40.8	30.0	14.0	51.1	52.2	27.7	19.3
14-Jan	56.0	50.0	44.3	33.8	19.0	50.4	51.0	33.3	23.7
21-Jan	57.0	50.6	45.7	34.4	23.0	52.5	55.1	33.8	23.9
28-Jan	54.0	49.0	44.9	34.2	20.0	49.7	51.7	33.5	24.3
4-Feb	58.0	50.7	44.4	32.2	11.0	51.8	53.0	31.5	21.8
11-Feb	57.0	47.7	46.9	33.9	22.0	46.2	49.7	33.4	23.0
18-Feb	56.0	50.3	47.2	36.6	21.0	50.4	53.5	34.9	24.7
25-Feb	58.0	50.8	48.6	36.3	22.0	52.5	54.3	36.0	25.4
4-Mar	59.0	50.9	49.6	35.9	22.0	53.9	54.9	35.8	24.5
11-Mar	59.0	51.1	51.5	37.8	29.0	53.2	54.0	38.3	27.0
18-Mar	59.0	49.2	51.7	37.7	30.0	50.4	51.6	37.9	27.3
25-Mar	60.0	49.4	52.4	38.2	31.0	49.7	52.3	38.7	26.9
1-Apr	64.0	52.6	53.0	38.8	31.0	49.7	54.6	38.5	27.6
8-Apr	63.0	54.8	54.2	40.7	33.0	60.2	55.5	41.6	29.8
15-Apr	66.0	53.1	56.1	41.3	34.0	57.4	56.1	43.0	30.3
22-Apr	66.0	55.3	56.7	42.4	35.0	58.8	56.2	44.4	32.0
29-Apr	70.0	55.3	58.4	43.3	35.0	62.3	59.8	45.8	33.1
6-May	72.0	56.9	59.9	44.7	37.0	64.4	64.9	48.5	34.7
13-May	73.0	61.0	60.6	46.1	39.0	67.2	67.3	50.7	36.4
20-May	73.0	60.1	61.7	47.2	41.0	67.2	66.3	52.2	38.3
27-May	74.0	62.6	62.7	47.9	41.0	72.1	63.9	54.3	39.9
3-Jun	78.0	62.7	64.8	49.5	43.0	74.9	72.5	57.4	41.9
10-Jun	75.0	62.2	64.6	50.7	45.0	70.0	66.3	58.8	44.1
17-Jun	78.0	64.6	65.3	51.1	47.0	74.9	67.2	61.1	45.3
24-Jun	80.0	66.4	67.4	52.4	48.0	80.5	74.5	63.7	46.7
1-Jul	80.0	64.4	67.7	53.3	47.0	78.4	72.4	64.3	49.1
8-Jul	78.0	65.1	68.2	53.6	49.0	78.4	69.3	65.6	50.4
15-Jul	79.0	65.7	69.1	54.4	50.0	83.3	74.8	68.3	51.8
22-Jul	85.0	68.0	71.8	55.1	50.0	86.8	75.1	71.0	54.5
29-Jul	82.0	67.9	72.4	55.9	52.0	86.8	72.6	72.5	55.1
5-Aug	81.0	66.8	71.7	55.7	51.0	86.8	75.8	70.6	54.5
12-Aug	84.0	69.8	72.4	55.7	51.0	96.6	78.5	73.5	56.9
19-Aug	82.0	65.6	70.1	55.2	49.0	84.0	72.3	69.9	54.6
26-Aug	79.0	65.5	70.1	53.3	47.0	80.5	70.0	68.5	51.4
2-Sep	81.0	65.8	69.2	53.6	47.0	84.0	73.9	69.1	52.9
9-Sep	79.0	61.7	68.1	52.1	45.0	80.5	69.5	67.8	50.9
16-Sep	76.0	63.1	67.3	49.7	43.0	77.7	67.1	64.5	47.0
23-Sep	78.0	63.5	66.2	48.8	41.0	77.7	69.1	63.5	45.9
30-Sep	73.0	61.8	64.5	47.6	39.0	75.6	66.1	61.6	43.7
7-Oct	71.0	59.7	61.7	45.2	36.0	70.0	62.2	56.6	39.8
14-Oct	68.0	56.8	59.6	44.4	35.0	67.2	59.9	54.3	38.7
21-Oct	64.0	54.6	57.1	42.3	32.0	65.1	57.4	50.7	36.3
28-Oct	65.0	55.2	55.6	42.4	32.0	67.2	58.9	49.2	35.0
4-Nov	62.0	56.6	53.4	40.9	28.0	63.0	58.2	45.4	32.6
11-Nov	62.0	54.1	51.4	40.2	29.0	60.9	56.3	43.3	31.0
18-Nov	60.0	54.5	49.3	38.6	25.0	60.2	57.2	40.7	28.9
25-Nov	57.0	52.5	45.6	35.0	16.0	55.3	54.6	35.2	25.3
2-Dec	54.0	48.7	45.4	35.0	15.0	52.5	50.8	35.2	25.1
9-Dec	55.0	50.2	45.2	34.7	20.0	56.0	53.0	35.2	25.0
16-Dec	56.0	51.1	45.7	35.7	25.0	51.1	52.5	35.5	25.2
23-Dec	55.0	50.1	42.7	32.7	13.0	50.4	53.9	32.0	22.6
31-Dec	56.0	52.7	41.7	31.3	12.0	53.9	55.0	30.8	21.2

BELLINGHAM WA WMO No. 727976



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	825
FEB	0	676
MAR	0	631
APR	2	480
MAY	9	343
JUN	23	211
JUL	52	134
AUG	51	133
SEP	22	236
OCT	2	436
NOV	0	656
DEC	0	814
ANN	161	5575

BELLINGHAM WA WMO No. 727976



	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	-23792	0	-3102
FEB	0	-19721	0	-2160
MAR	0	-18754	0	-1343
APR	0	-14734	0	-369
MAY	8	-11179	1	-47
JUN	66	-7541	12	-4
JUL	161	-5321	76	0
AUG	162	-5282	126	-1
SEP	47	-8176	19	-24
OCT	0	-13575	0	-234
NOV	0	-19333	0	-1420
DEC	0	-23521	0	-2636
ANN	444	-170929	234	-11340

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

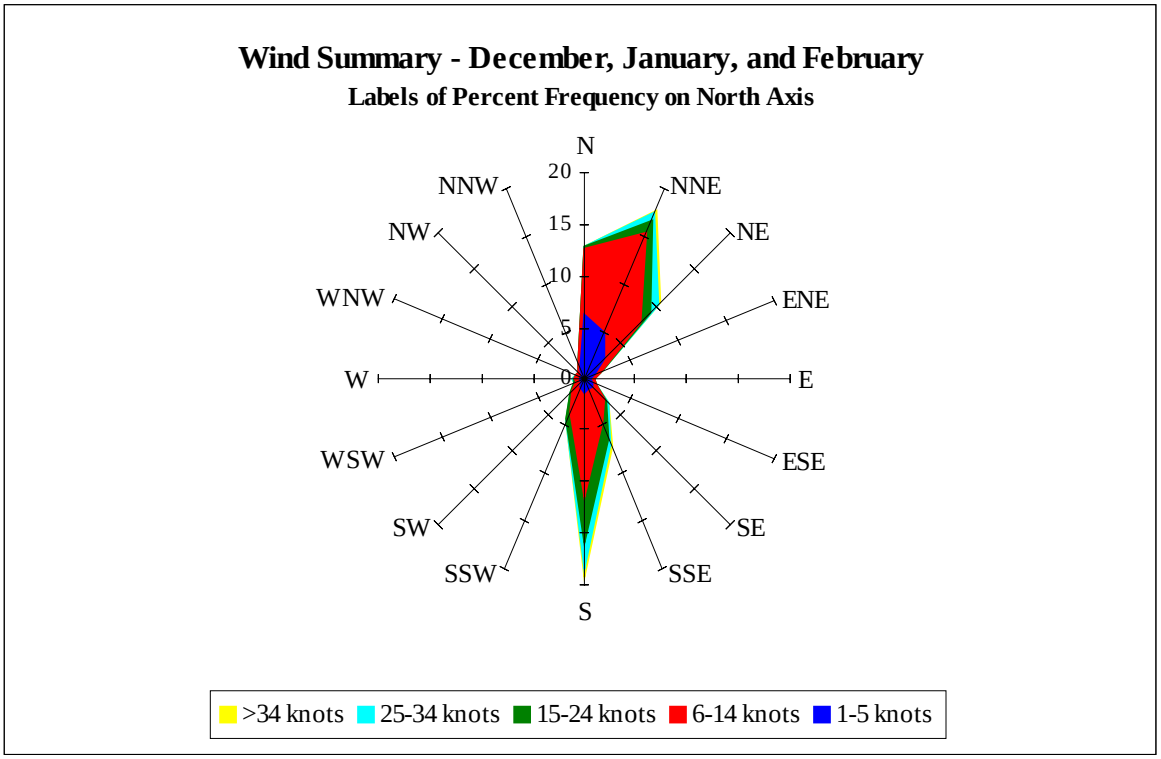
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9

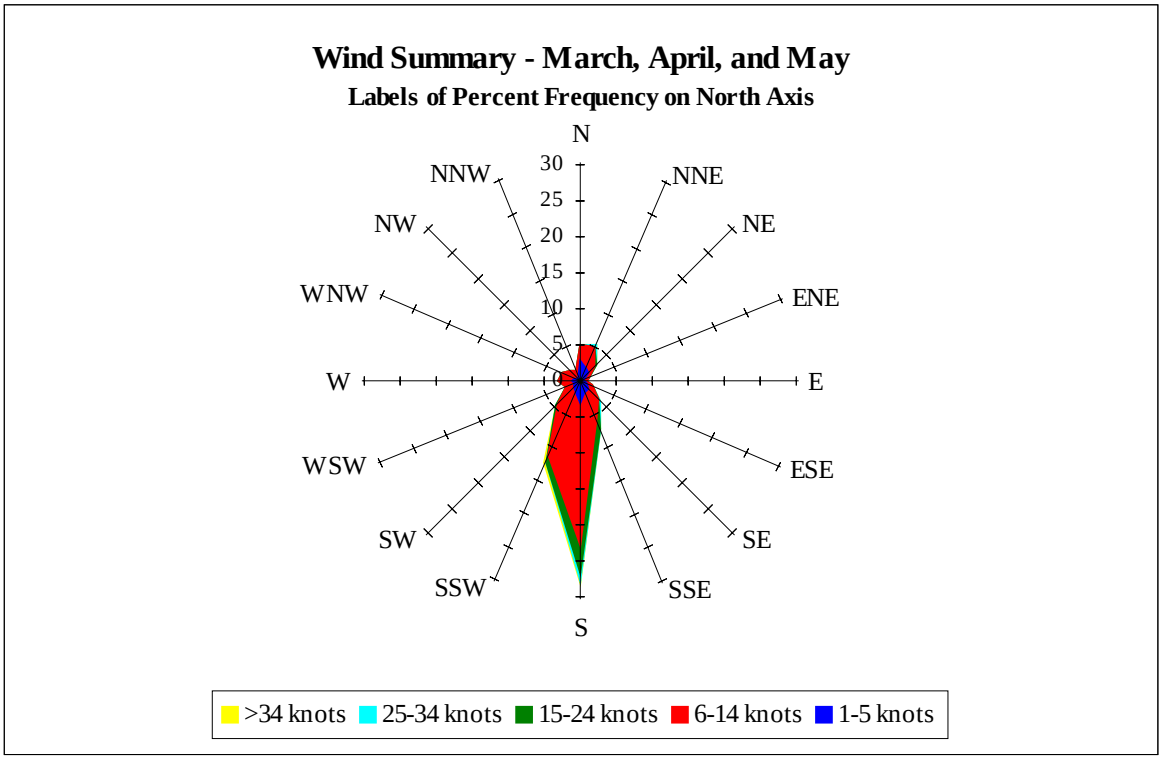
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	200	350	620	920	1210	1320	1390	1170	840	480	240	160	740
NORTH	Unshaded	85	130	200	280	360	400	380	310	230	160	98	71	230
	Shaded	65	100	160	230	290	330	320	260	190	130	76	55	180
EAST	Unshaded	140	230	380	510	630	680	720	620	480	290	160	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

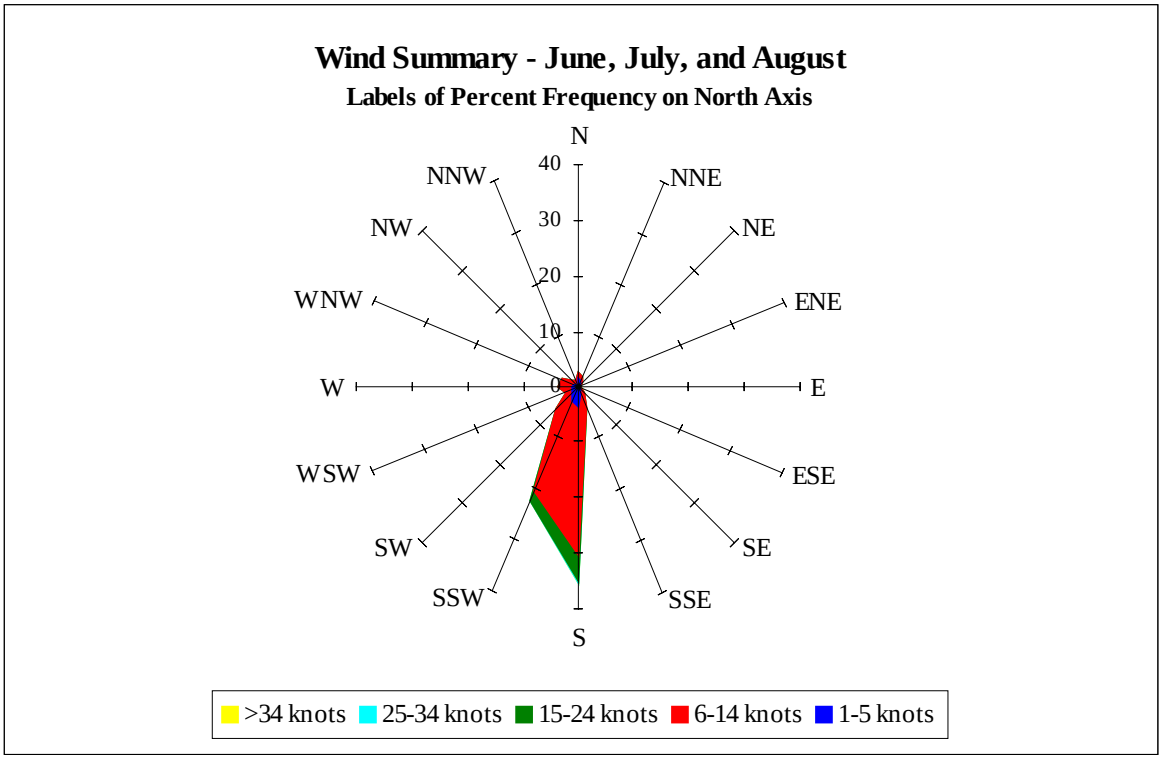
		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	29	57	67	55	23	46	78	96	93	70
	M.Cloudy	16	33	40	32	14	25	46	63	62	45
NORTH	M.Clear	8	12	14	12	7	14	15	16	16	14
	M.Cloudy	7	12	14	12	6	11	16	19	19	15
EAST	M.Clear	61	52	14	12	7	77	72	33	16	14
	M.Cloudy	19	25	14	12	6	26	35	27	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



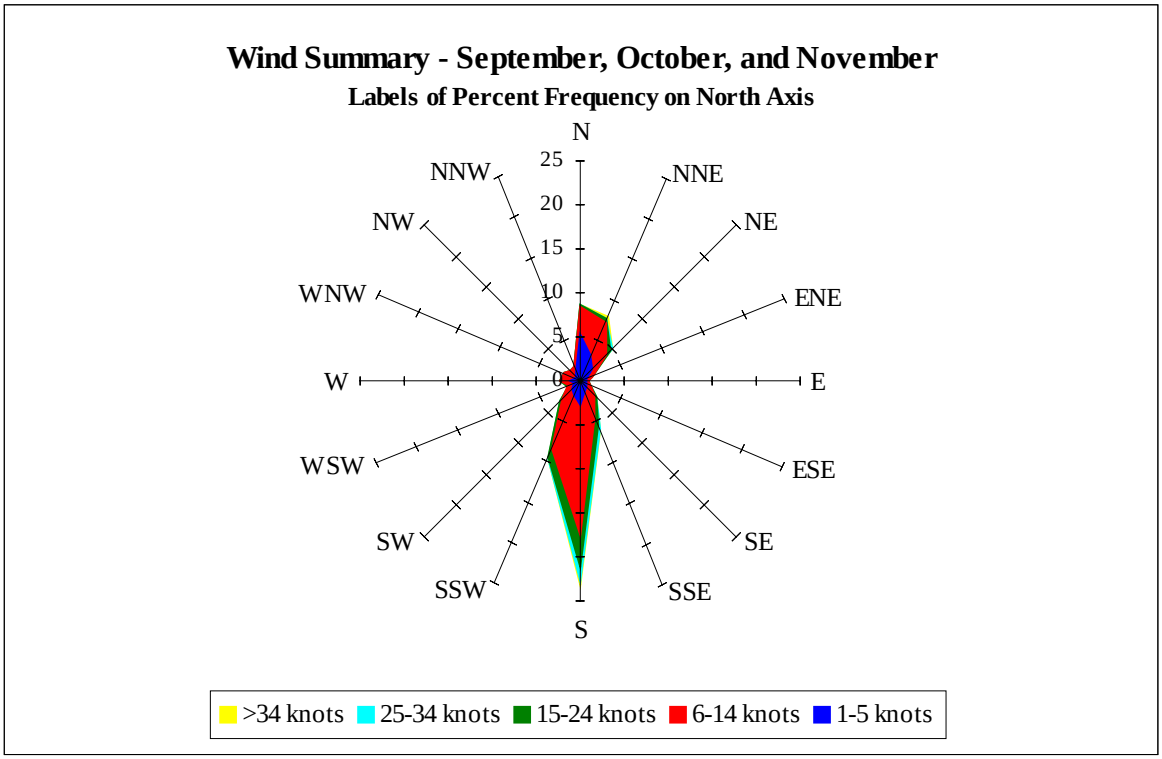
Percent Calm = 12.99



Percent Calm = 15.29



Percent Calm = 13.13



Percent Calm = 20.67