HALIFAX CN	
Latitude = 44.88 N	WMO No. 713953
Longitude = 63.50 W	Elevation = 476 feet
Period of Record = 1973 to 1993	Average Pressure = 29.39 inches Hg

Design Criteria Data

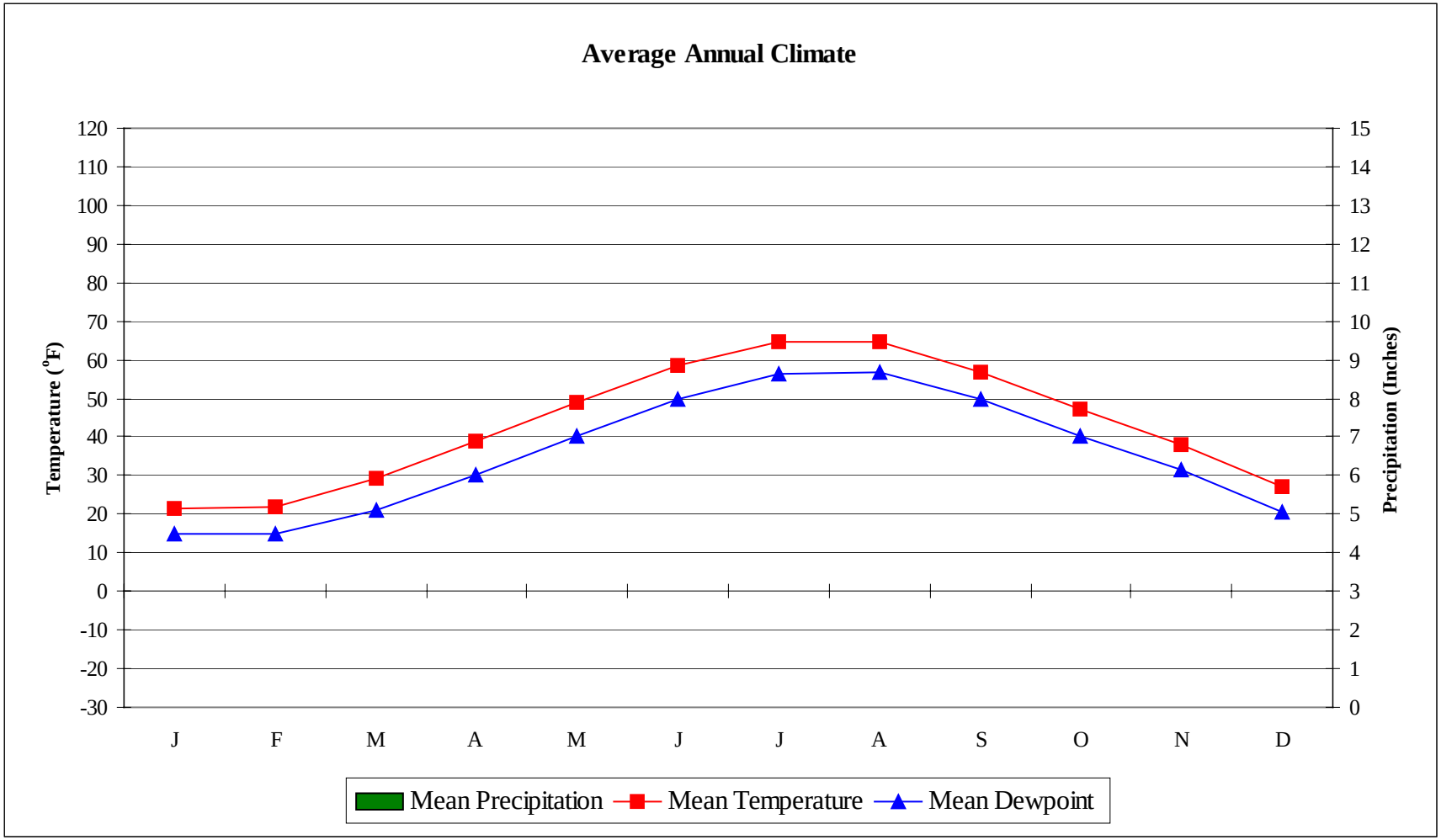
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	88	71	86	12.5	SW
0.4% Occurrence	81	68	85	11.3	SSW
1.0% Occurrence	79	67	80	11.2	SSW
2.0% Occurrence	75	65	77	11.3	SSW
Mean Daily Range	15	-	-	-	-
97.5% Occurrence	7	6	5	10.2	NW
99.0% Occurrence	1	0	4	9.9	NW
99.6% Occurrence	-2	-3	3	11.2	NW
Median of Extreme Lows	-8	-9	2	13.3	NNW
		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	75	82	117	11.9	SSW
0.4% Occurrence	71	77	104	10.9	SSW
1.0% Occurrence	69	75	98	11.1	SSW
2.0% Occurrence	67	72	91	10.6	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	120	80	0.78	11.0	SSW
0.4% Occurrence	106	73	0.69	11.3	SSW
1.0% Occurrence	101	71	0.67	13.3	SSW
2.0% Occurrence	93	70	0.61	10.6	SSW
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	54	15	217

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	N/A	N/A	0.3 + 0.1
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 (#)**
45.4	N/A	N/A	60

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

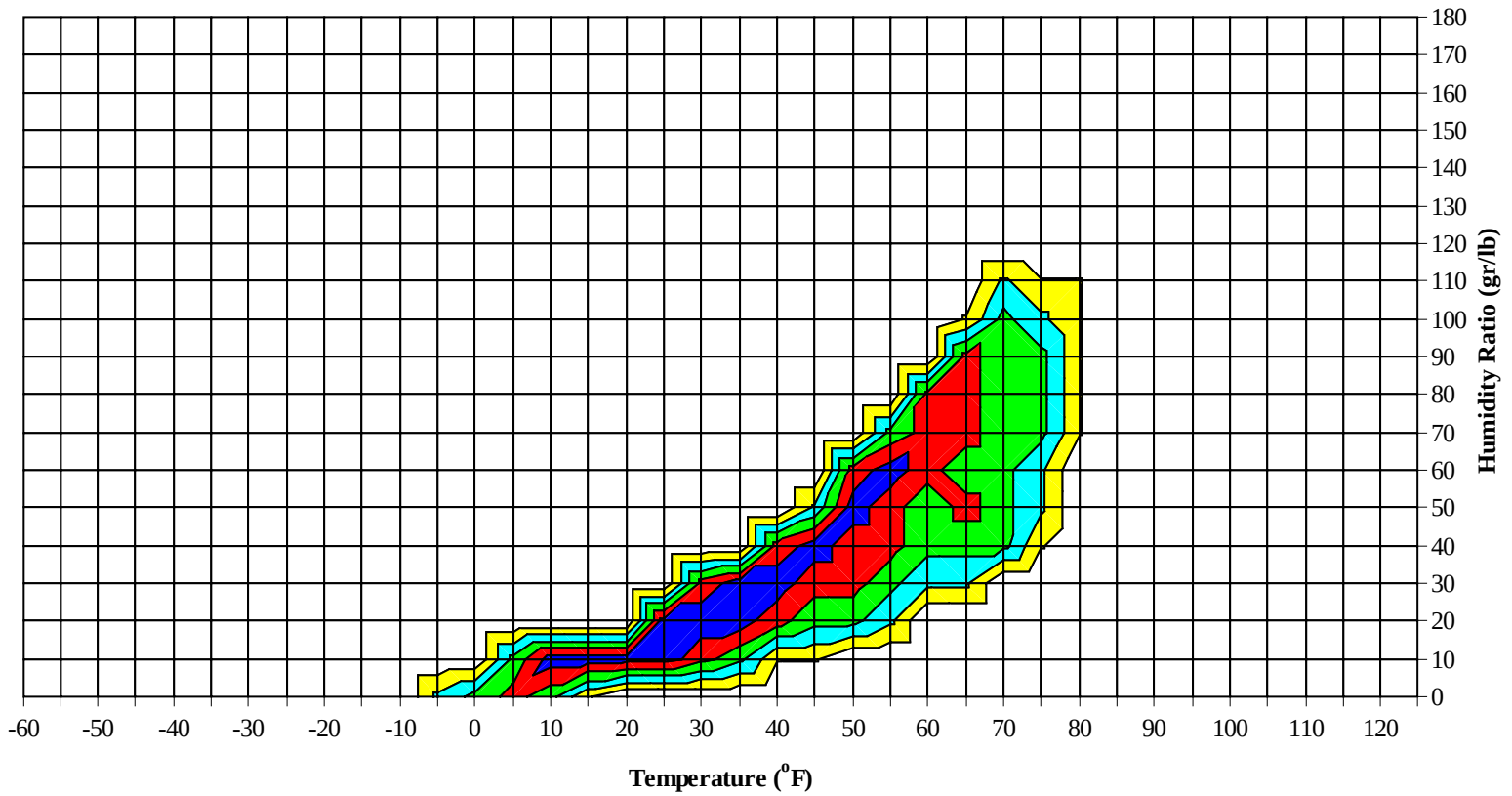
HALIFAX CN WMO No. 713953



No Precipitation Data Available

HALIFAX CN WMO No. 713953

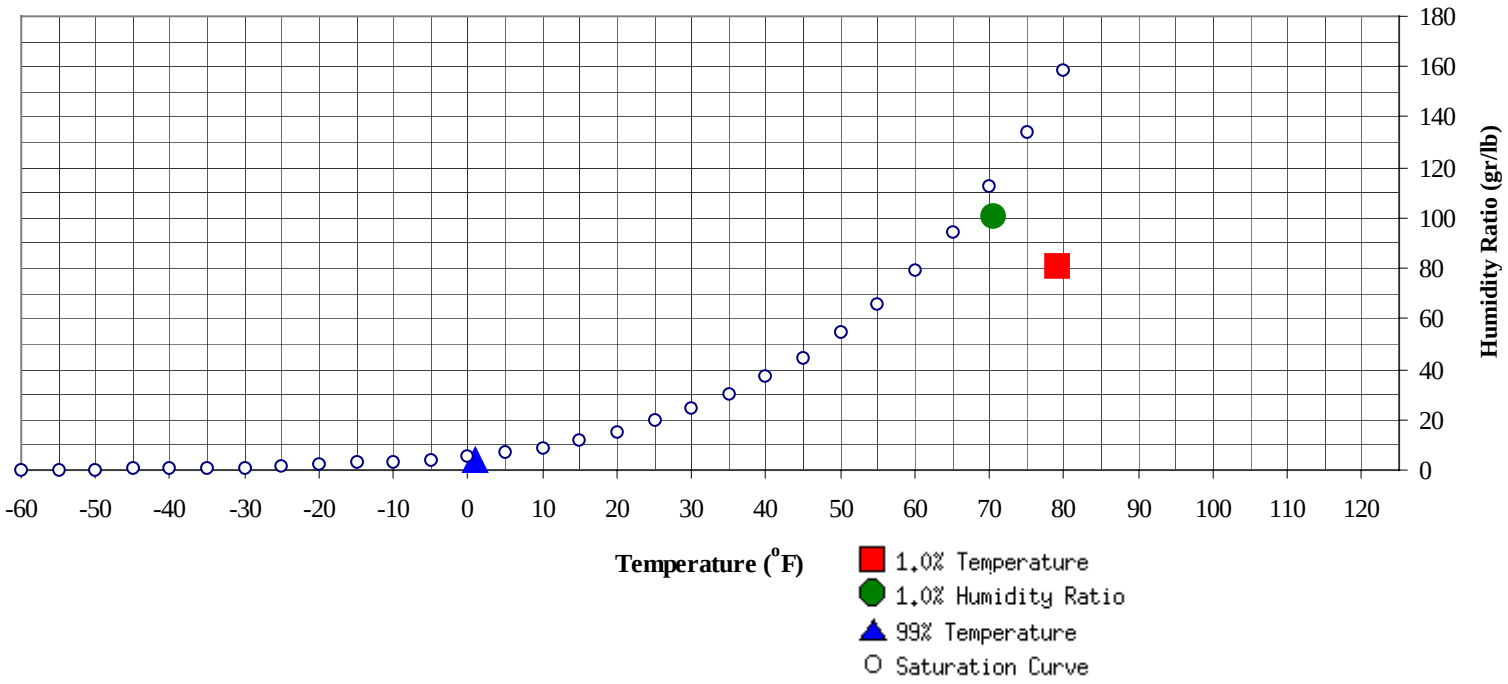
Long Term Psychrometric Summary



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

HALIFAX CN WMO No. 713953

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	1	3.9	0.8

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	100.8	70.6	68.1	66.9	32.7

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	79	80.5	66.7	31.6

HALIFAX CN WMO No. 713953

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

Period of Record = 1973 to 1993

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															
65 / 69															
60 / 64												0	0	0	53.3
55 / 59							0	0	0	41.5		2	0	2	48.8
50 / 54	1	3	2	6	50.6	1	1	0	2	48.3	1	7	3	11	46.3
45 / 49	5	6	4	15	45.7	3	6	4	13	45.0	7	20	11	38	43.1
40 / 44	7	8	6	21	40.9	3	8	6	17	40.5	9	23	15	47	39.2
35 / 39	18	25	22	65	36.0	13	22	16	51	35.5	21	47	39	107	34.4
30 / 34	33	36	35	104	30.8	29	39	34	102	30.4	57	62	66	185	29.9
25 / 29	31	41	39	111	24.9	37	43	46	125	24.8	55	41	54	150	24.6
20 / 24	25	29	29	83	20.4	22	31	32	85	20.2	32	16	21	69	20.0
15 / 19	35	37	35	107	15.9	35	31	35	101	15.9	31	18	22	71	15.6
10 / 14	28	31	36	95	10.7	31	21	22	74	10.7	18	8	13	39	10.7
5 / 9	32	20	24	76	5.9	25	14	16	55	5.7	11	2	4	17	5.8
0 / 4	21	8	12	41	0.8	17	5	9	31	0.6	5	1	0	6	1.2
-5 / -1	8	2	3	13	-3.6	6	2	2	10	-3.8	0	0		0	-4.2
-10 / -6	3	1	1	5	-7.3	2	1	0	3	-7.6	0	0		0	-7.7
-15 / -11	1	0	0	1	-12.7	1	0	0	1	-11.5					
-20 / -16	0	0		0	-16.0	0		0	0	-16.6					

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.

HALIFAX CN WMO No. 713953

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

Period of Record = 1973 to 1993

Temperature Range (°F)	April Hour Group (LST) 01 To 08	April 09 To 16	April 17 To 00	April Total Obs	April MCWB (°F)	May Hour Group (LST) 01 To 08	May 09 To 16	May 17 To 00	May Total Obs	May MCWB (°F)	June Hour Group (LST) 01 To 08	June 09 To 16	June 17 To 00	June Total Obs	June MCWB (°F)
90 / 94							0	0	0	66.4		0		0	70.9
85 / 89							1	0	1	67.2		2	1	3	70.4
80 / 84							1	1	2	65.4	0	5	1	6	67.2
75 / 79							3	1	4	62.0	0	19	6	25	63.6
70 / 74		1	0	1	54.8	0	10	3	13	58.1	2	40	15	57	61.1
65 / 69		2	0	2	54.8	0	13	5	18	56.4	4	36	21	61	58.9
60 / 64		6	2	8	53.2	2	34	14	50	53.3	23	58	50	131	56.9
55 / 59	0	13	6	19	48.8	11	56	32	99	50.9	68	47	67	182	53.9
50 / 54	6	33	16	55	46.0	42	58	58	158	48.2	83	23	50	156	49.8
45 / 49	19	49	34	102	42.3	67	39	62	168	43.7	45	6	23	74	44.8
40 / 44	25	37	35	97	38.6	49	19	35	103	39.6	12	1	5	18	40.3
35 / 39	56	59	66	181	34.7	59	11	31	101	35.9	3	1	1	5	37.0
30 / 34	90	33	64	187	30.3	18	2	6	26	31.1					
25 / 29	34	6	14	54	25.1	1	0	0	1	25.8					
20 / 24	7	1	2	10	19.8	0		0	0						
15 / 19	3	0	0	3	16.3										
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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.

HALIFAX CN WMO No. 713953

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

Period of Record = 1973 to 1993

Temperature Range (°F)	July Hour Group (LST) 01 To 08	July 09 To 16	July 17 To 00	July Total Obs	July MCWB (°F)	August Hour Group (LST) 01 To 08	August 09 To 16	August 17 To 00	August Total Obs	August MCWB (°F)	September Hour Group (LST) 01 To 08	September 09 To 16	September 17 To 00	September Total Obs	September MCWB (°F)
90 / 94		0		0	78.0	0	0	0	0	72.0					
85 / 89		2	0	2	70.6	0	2	0	2	71.9					
80 / 84		14	3	17	68.7	3	16	3	22	69.4	0	1	0	1	69.1
75 / 79	0	49	16	65	65.2	14	43	14	71	66.8	1	7	1	9	66.4
70 / 74	4	72	40	116	63.0	38	64	38	140	64.6	6	25	6	37	62.9
65 / 69	22	47	47	116	62.2	53	57	53	163	62.7	17	36	17	70	61.2
60 / 64	95	45	82	222	59.8	79	49	80	208	59.5	53	76	53	182	58.2
55 / 59	87	15	47	149	55.0	45	15	45	105	54.9	71	59	71	202	53.8
50 / 54	38	3	11	52	51.0	14	2	14	30	50.0	56	29	56	141	49.4
45 / 49	3	0	1	4	46.4	1		1	2	44.8	28	6	28	62	44.3
40 / 44										40.5	6	1	6	13	39.9
35 / 39											1	0	1	2	36.3
30 / 34															29.8
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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.

HALIFAX CN WMO No. 713953

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

Period of Record = 1973 to 1993

Temperature Range (°F)	October Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	November Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	December Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
90 / 94															
85 / 89															
80 / 84															
75 / 79		0		0	65.3										
70 / 74	0	2	0	2	63.7										
65 / 69	1	7	1	9	62.3										
60 / 64	8	28	11	47	58.7	2	4	1	7	59.7					
55 / 59	23	46	32	101	53.9	7	13	9	29	54.7	0	1	1	2	54.3
50 / 54	35	57	49	141	48.8	17	26	19	62	50.1	7	7	5	19	50.7
45 / 49	50	57	56	163	43.4	25	37	34	96	44.3	10	13	11	34	45.6
40 / 44	38	31	42	111	39.2	24	36	29	89	39.5	11	14	12	37	40.6
35 / 39	60	15	43	118	35.1	44	56	52	152	34.7	23	34	29	86	35.5
30 / 34	29	4	12	45	30.4	59	42	55	156	29.9	47	52	52	152	30.3
25 / 29	3	0	2	5	26.0	39	19	28	86	24.9	41	45	44	131	24.9
20 / 24	0		0	0	21.5	15	4	8	27	20.4	24	26	26	76	20.5
15 / 19						7	2	4	13	16.0	32	25	29	86	16.0
10 / 14						2	0	1	3	11.4	25	18	21	64	10.8
5 / 9											16	9	10	35	5.9
0 / 4											9	3	5	17	0.7
-5 / -1											2	0	1	3	-3.8
-10 / -6											1	0	0	1	-7.1
-15 / -11															
-20 / -16															

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.

HALIFAX CN WMO No. 713953

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

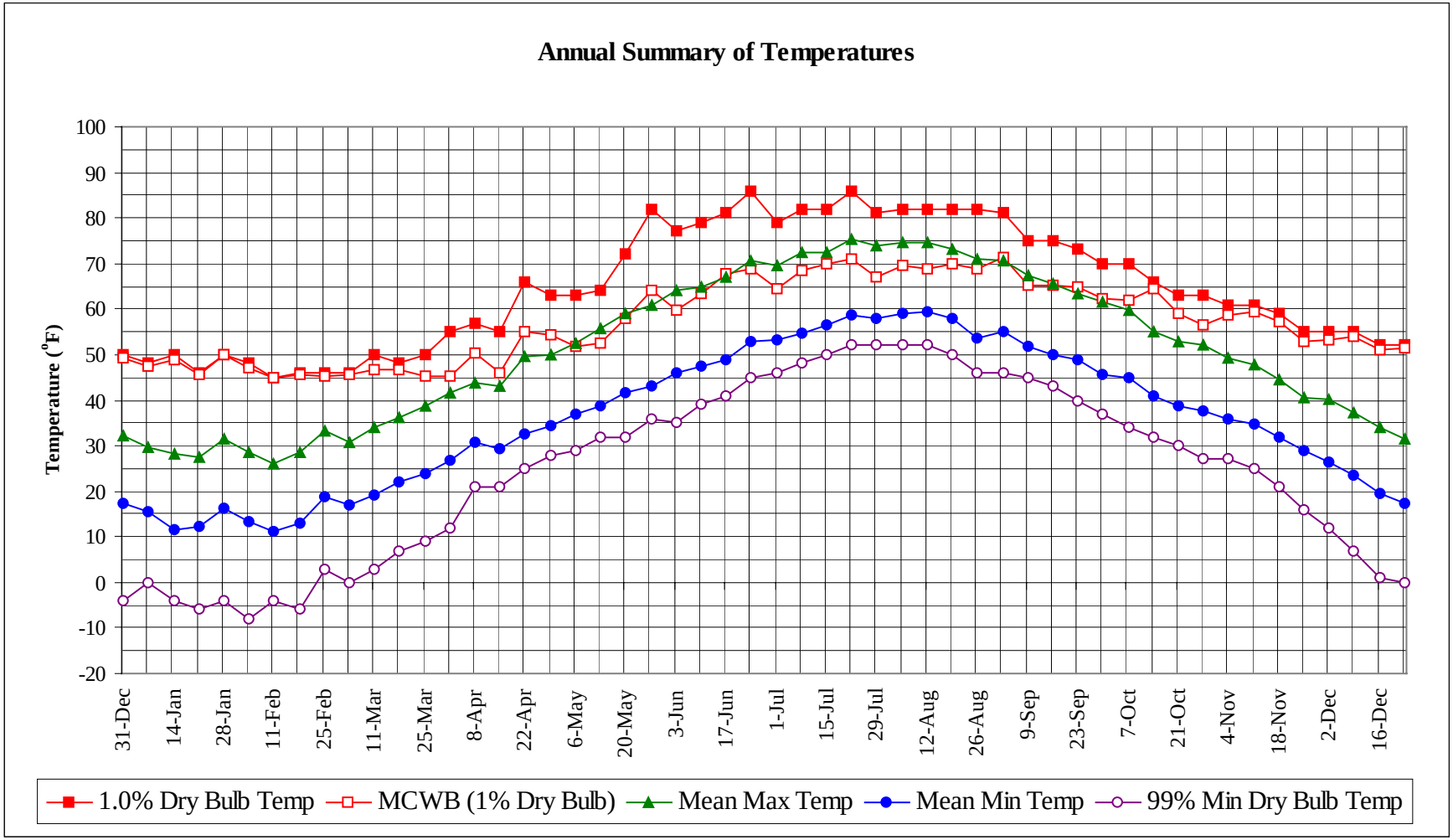
Period of Record = 1973 to 1993

Annual Totals

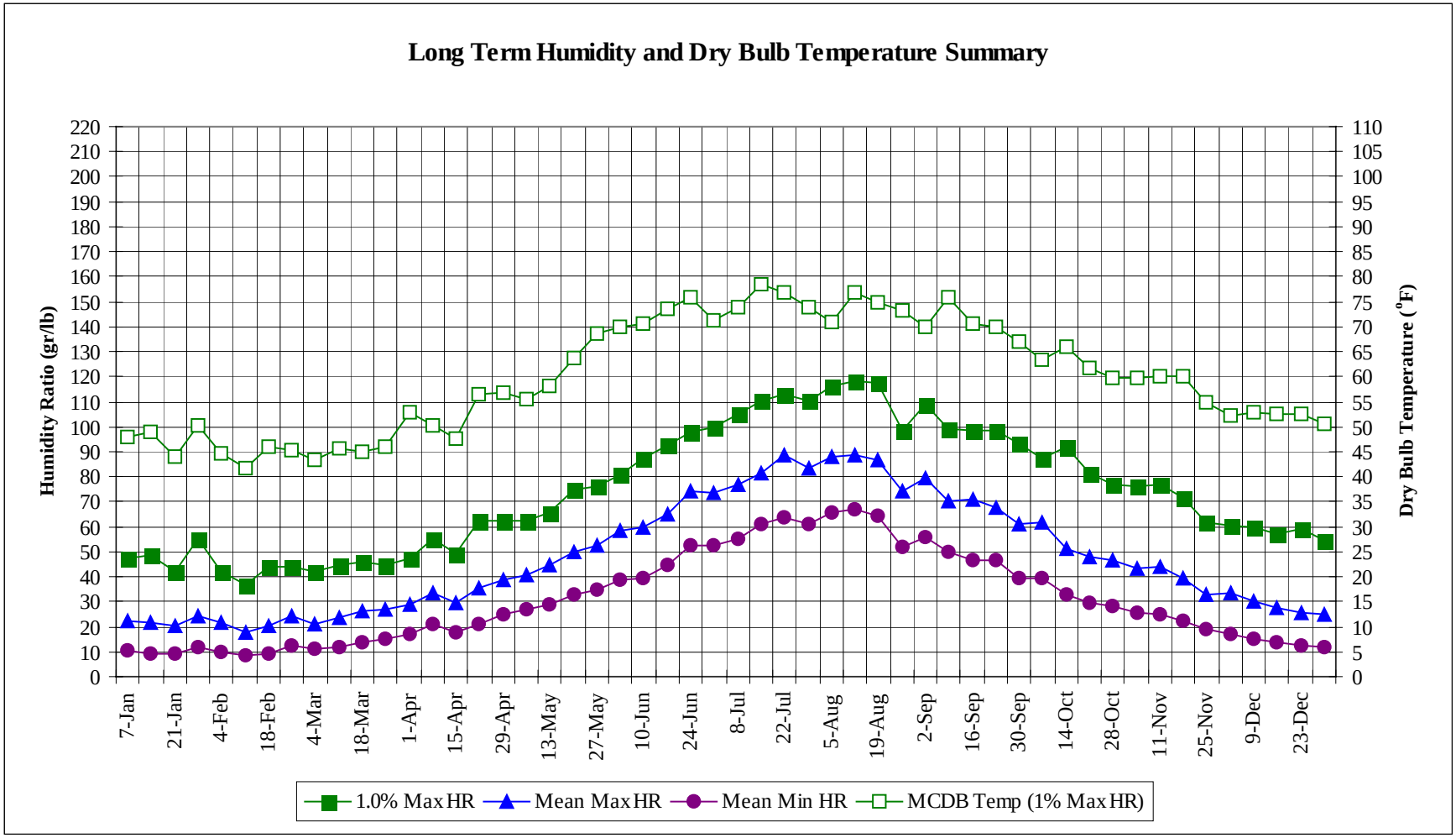
Temperature Range (°F)	Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
90 / 94		1	0	1	70.1
85 / 89		7	1	8	70.6
80 / 84	0	37	9	46	68.7
75 / 79	0	119	37	156	65.5
70 / 74	13	208	101	322	63.0
65 / 69	65	194	141	400	61.4
60 / 64	246	296	288	830	58.5
55 / 59	324	264	303	891	53.8
50 / 54	329	248	279	856	49.1
45 / 49	287	241	266	794	43.8
40 / 44	194	180	192	566	39.5
35 / 39	303	271	302	876	35.1
30 / 34	366	274	328	968	30.3
25 / 29	246	201	231	678	24.9
20 / 24	127	110	122	359	20.3
15 / 19	146	117	130	393	15.9
10 / 14	108	81	95	284	10.8
5 / 9	87	47	57	191	5.8
0 / 4	54	19	28	101	0.8
-5 / -1	17	5	6	28	-3.7
-10 / -6	7	3	2	12	-7.4
-15 / -11	1	0	0	1	-12.2
-20 / -16	1	0	0	1	-16.3

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.

HALIFAX CN WMO No. 713953



HALIFAX CN WMO No. 713953

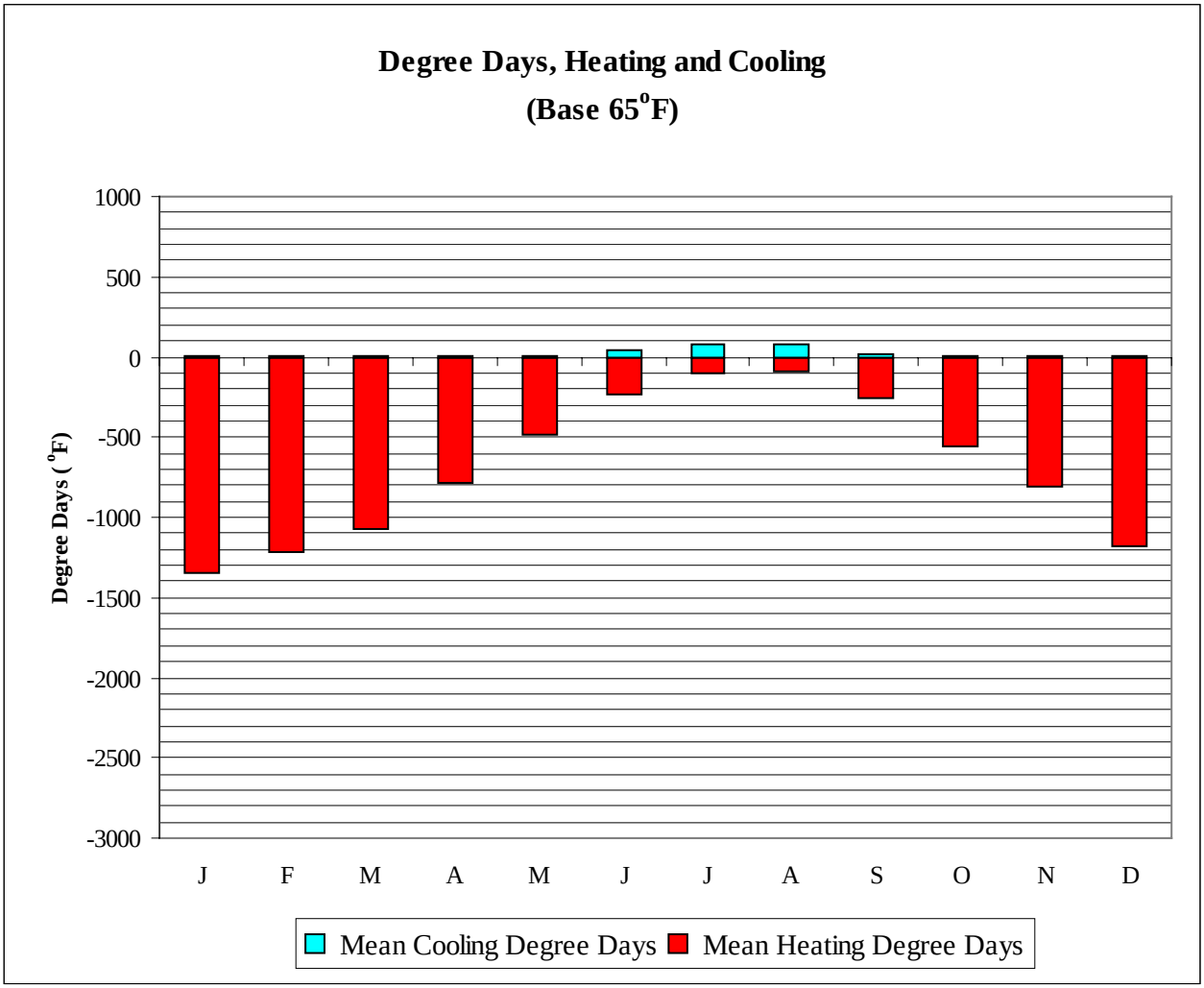


HALIFAX CN WMO No. 713953

Long Term Dry Bulb Temperature and Humidity Summary

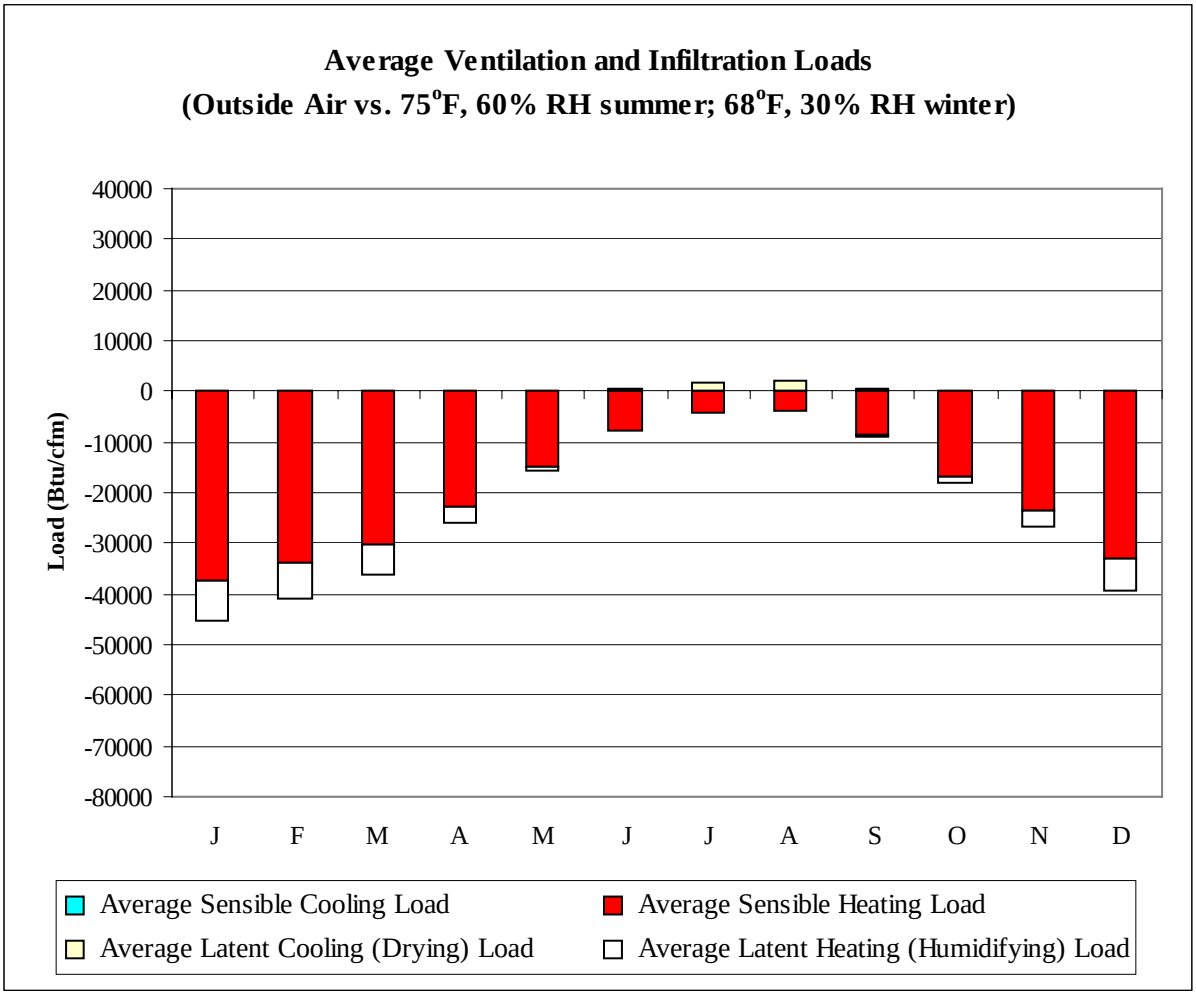
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	48.0	47.4	29.7	15.4	0.0	47.6	48.1	22.5	10.7
14-Jan	50.0	48.9	28.2	11.6	-4.0	48.3	48.9	22.0	9.0
21-Jan	46.0	45.5	27.5	12.1	-6.0	42.0	43.9	20.5	9.4
28-Jan	50.0	49.9	31.3	16.1	-4.0	55.3	50.1	24.4	11.7
4-Feb	48.0	47.2	28.8	13.4	-8.0	42.0	44.5	21.4	10.0
11-Feb	45.0	44.8	25.9	11.3	-4.0	37.1	41.6	17.7	8.4
18-Feb	46.0	45.6	28.4	12.9	-6.0	44.1	46.0	20.1	9.0
25-Feb	46.0	45.3	33.4	18.7	3.0	44.1	45.2	24.0	12.6
4-Mar	46.0	45.5	30.9	16.9	0.0	42.0	43.4	20.9	10.9
11-Mar	50.0	46.7	34.1	19.2	3.0	44.8	45.6	23.7	11.9
18-Mar	48.0	46.6	36.2	22.1	7.0	46.2	45.0	26.1	13.9
25-Mar	50.0	45.3	38.7	23.9	9.0	44.8	45.9	26.9	14.8
1-Apr	55.0	45.2	41.6	26.8	12.0	47.6	52.8	29.0	17.2
8-Apr	57.0	50.5	43.6	30.8	21.0	55.3	50.3	33.4	21.1
15-Apr	55.0	46.1	43.2	29.2	21.0	49.0	47.5	29.4	17.7
22-Apr	66.0	54.9	49.4	32.4	25.0	62.3	56.3	35.7	21.2
29-Apr	63.0	54.3	50.0	34.5	28.0	62.3	56.9	38.7	25.0
6-May	63.0	51.9	52.3	36.8	29.0	62.3	55.6	40.8	26.8
13-May	64.0	52.6	55.9	38.6	32.0	65.8	58.2	44.5	29.1
20-May	72.0	57.8	59.1	41.6	32.0	74.9	63.8	50.1	32.9
27-May	82.0	64.1	61.0	43.2	36.0	76.3	68.6	52.8	35.1
3-Jun	77.0	59.8	64.0	46.1	35.0	80.5	70.1	58.3	38.6
10-Jun	79.0	63.2	64.8	47.5	39.0	87.5	70.8	59.6	39.5
17-Jun	81.0	67.8	67.1	48.8	41.0	92.4	73.5	64.7	44.4
24-Jun	86.0	68.9	70.7	52.9	45.0	98.0	75.9	74.3	52.3
1-Jul	79.0	64.3	69.5	53.2	46.0	100.1	71.4	73.5	52.7
8-Jul	82.0	68.5	72.3	54.8	48.0	105.0	73.8	77.0	55.4
15-Jul	82.0	69.7	72.5	56.4	50.0	110.6	78.5	81.4	61.0
22-Jul	86.0	71.1	75.4	58.5	52.0	112.7	77.0	88.8	64.0
29-Jul	81.0	67.0	73.9	57.8	52.0	110.6	74.0	83.7	60.9
5-Aug	82.0	69.4	74.6	58.9	52.0	116.2	71.0	88.1	65.5
12-Aug	82.0	68.9	74.7	59.5	52.0	118.3	76.7	88.9	66.9
19-Aug	82.0	70.1	73.4	58.0	50.0	117.6	74.8	86.9	64.6
26-Aug	82.0	68.8	71.1	53.7	46.0	98.7	73.1	74.2	51.8
2-Sep	81.0	71.5	70.5	54.9	46.0	109.2	70.0	79.4	56.1
9-Sep	75.0	65.1	67.3	51.6	45.0	99.4	75.8	70.6	49.6
16-Sep	75.0	65.0	65.5	50.1	43.0	98.7	70.6	70.9	46.9
23-Sep	73.0	65.0	63.5	49.0	40.0	98.7	69.8	67.8	46.4
30-Sep	70.0	62.2	61.4	45.6	37.0	93.1	66.8	61.2	39.4
7-Oct	70.0	62.1	59.6	44.9	34.0	87.5	63.4	61.9	39.6
14-Oct	66.0	64.4	54.9	40.8	32.0	91.7	66.2	51.2	32.8
21-Oct	63.0	59.0	52.8	38.8	30.0	81.2	61.8	47.9	29.4
28-Oct	63.0	56.5	52.3	37.7	27.0	77.0	59.9	46.8	27.9
4-Nov	61.0	58.7	49.4	35.7	27.0	76.3	59.7	43.6	25.8
11-Nov	61.0	59.3	47.8	34.7	25.0	77.0	59.9	44.2	25.2
18-Nov	59.0	57.3	44.7	31.9	21.0	71.4	60.2	39.5	22.3
25-Nov	55.0	52.9	40.4	29.0	16.0	61.6	55.0	33.0	19.2
2-Dec	55.0	53.1	40.1	26.5	12.0	60.2	52.1	33.6	17.2
9-Dec	55.0	54.1	37.1	23.4	7.0	59.5	52.7	30.4	15.0
16-Dec	52.0	50.9	34.1	19.5	1.0	57.4	52.7	27.6	13.8
23-Dec	52.0	51.5	31.7	17.5	0.0	58.8	52.7	25.3	12.2
31-Dec	50.0	49.4	32.2	17.2	-4.0	54.6	50.6	25.2	11.9

HALIFAX CN WMO No. 713953



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1348
FEB	0	1213
MAR	0	1071
APR	0	786
MAY	9	489
JUN	36	231
JUL	82	99
AUG	79	95
SEP	16	257
OCT	1	555
NOV	0	812
DEC	0	1181
ANN	223	8137

HALIFAX CN WMO No. 713953



	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	-37353	0	-8031
FEB	0	-33627	0	-7410
MAR	0	-30095	0	-6126
APR	0	-22693	0	-3179
MAY	35	-14904	3	-862
JUN	122	-7845	268	-47
JUL	271	-4109	1358	-1
AUG	268	-3937	1948	-3
SEP	19	-8734	384	-88
OCT	0	-16779	61	-1095
NOV	0	-23374	4	-3178
DEC	0	-33015	0	-6485
ANN	715	-236465	4026	-36505

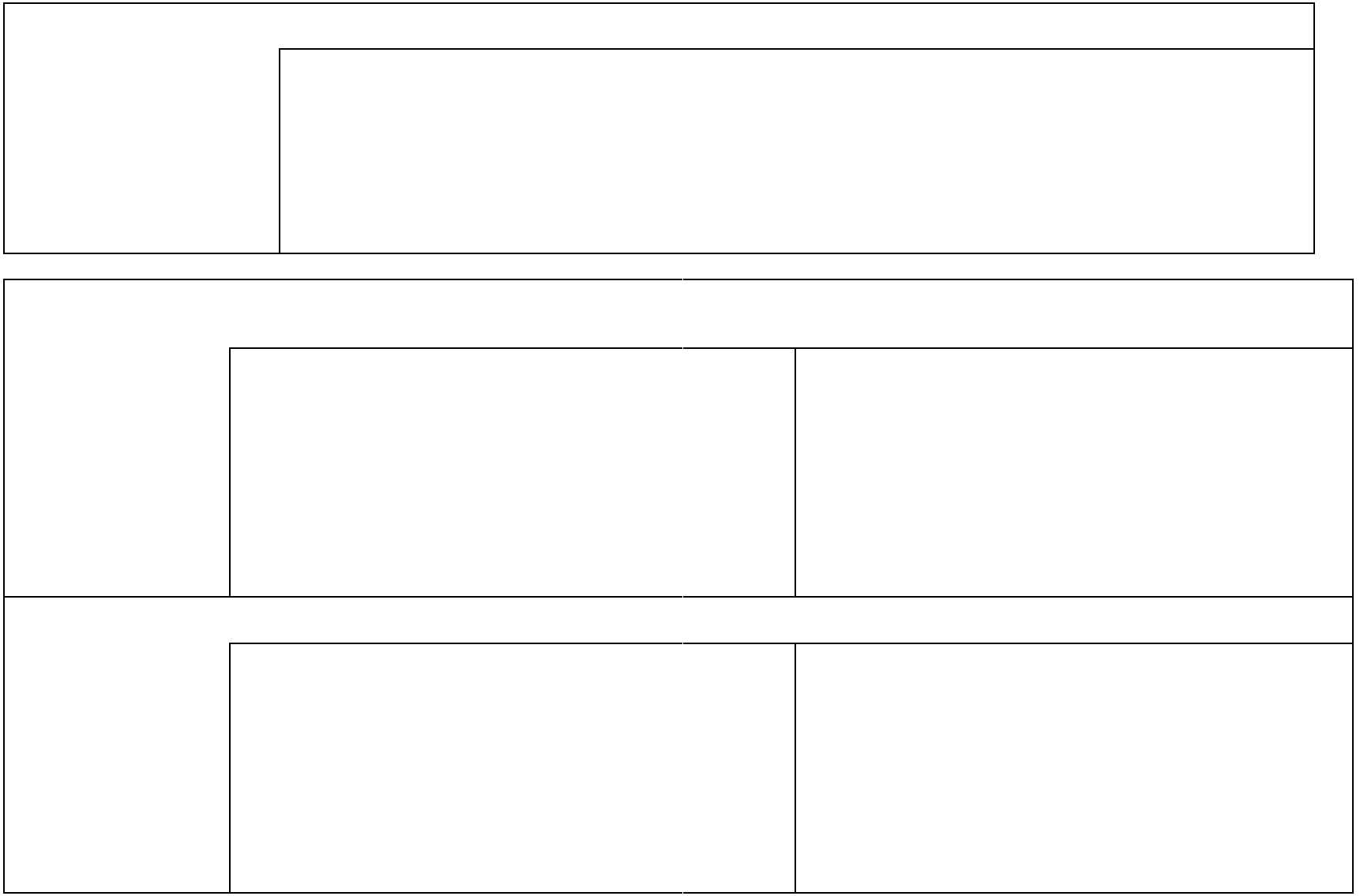
Average Annual Solar Radiation – Nearest Available Site

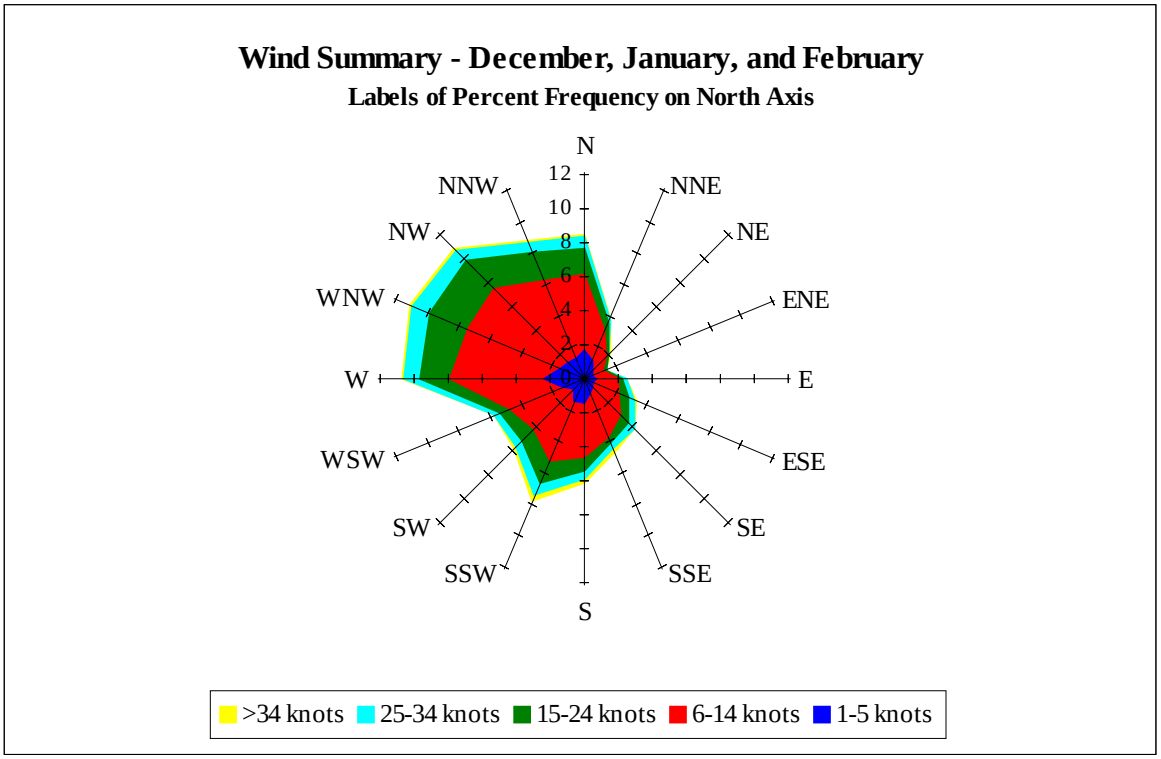
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

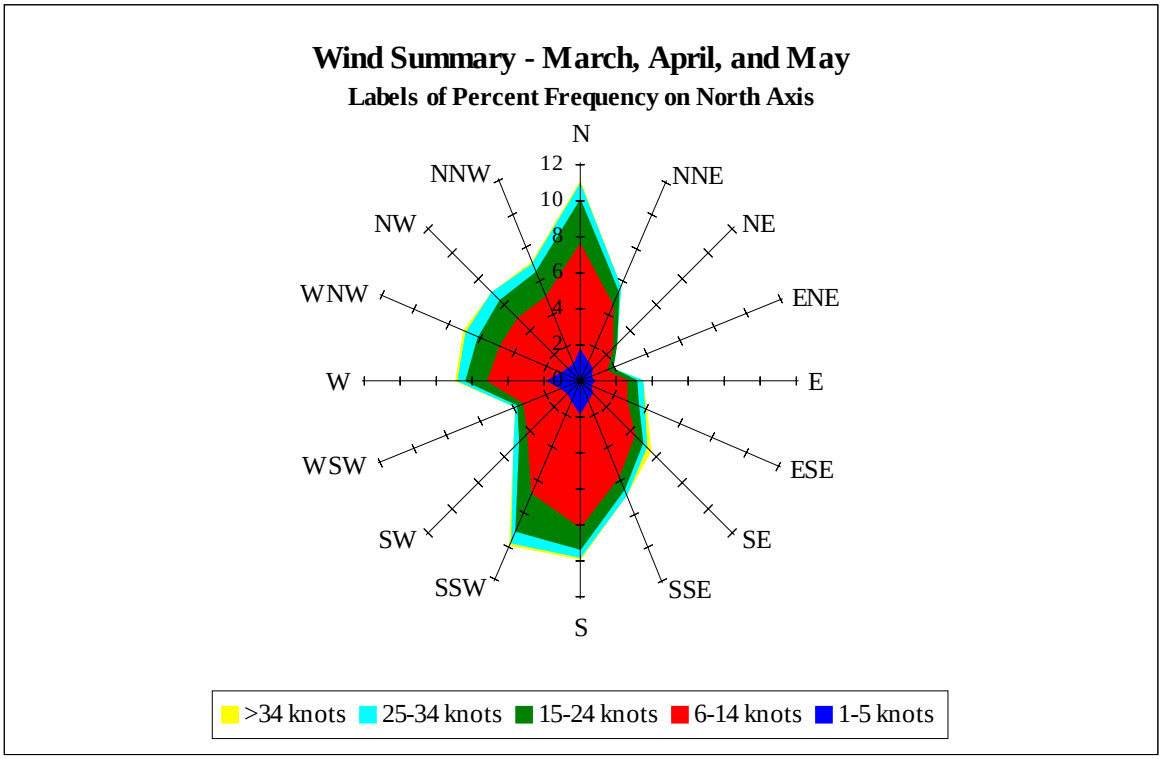
Average Annual Solar Heat and Illumination – Nearest Available Site

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

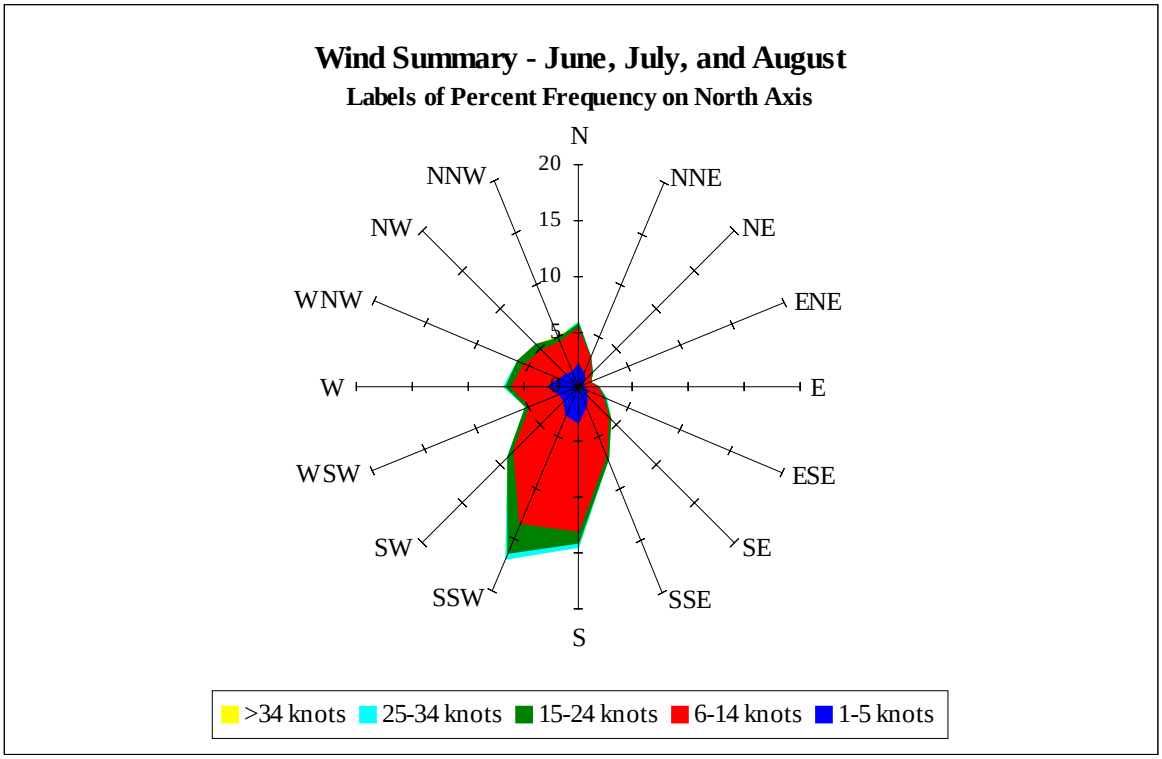




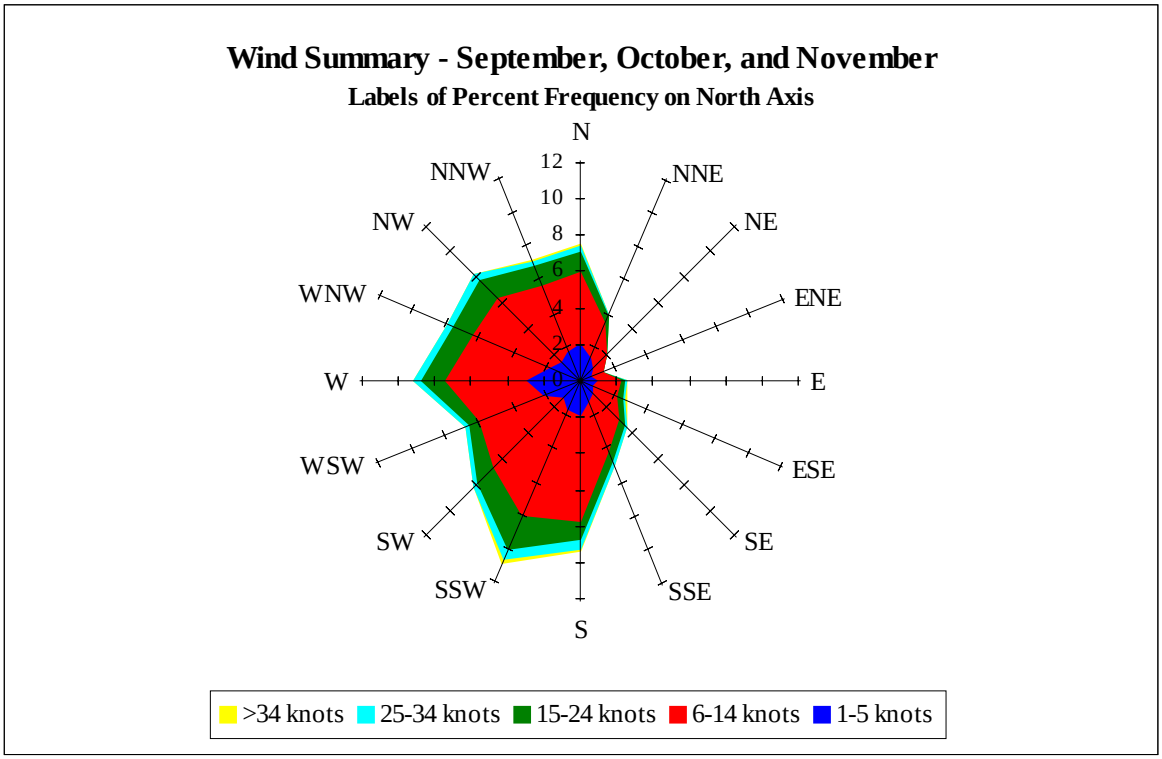
Percent Calm = 3.48



Percent Calm = 3.16



Percent Calm = 5.01



Percent Calm = 4.24