

SOUTH WEYMOUTH MA

Latitude = 42.15 N

Longitude = 70.93 W

Period of Record = 1973 to 1996

WMO No. 725097

Elevation = 161 feet

Average Pressure = 29.79 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	96	77	107	8.6	WSW
0.4% Occurrence	91	74	100	8.1	W
1.0% Occurrence	88	73	97	8.0	W
2.0% Occurrence	85	71	93	7.8	W
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	16	13	6	6.7	W
99.0% Occurrence	10	8	4	6.8	WNW
99.6% Occurrence	5	3	3	7.2	WNW
Median of Extreme Lows	-1	-2	2	7.0	W
	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	80	90	135	8.8	SSW
0.4% Occurrence	77	87	123	7.5	SSW
1.0% Occurrence	75	84	116	7.3	SSW
2.0% Occurrence	73	81	109	7.1	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	146	90	0.97	8.9	SSW
0.4% Occurrence	127	83	0.85	7.1	SSW
1.0% Occurrence	120	80	0.79	6.6	S
2.0% Occurrence	112	78	0.74	7.0	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		20	473	226	903

Other Site Data

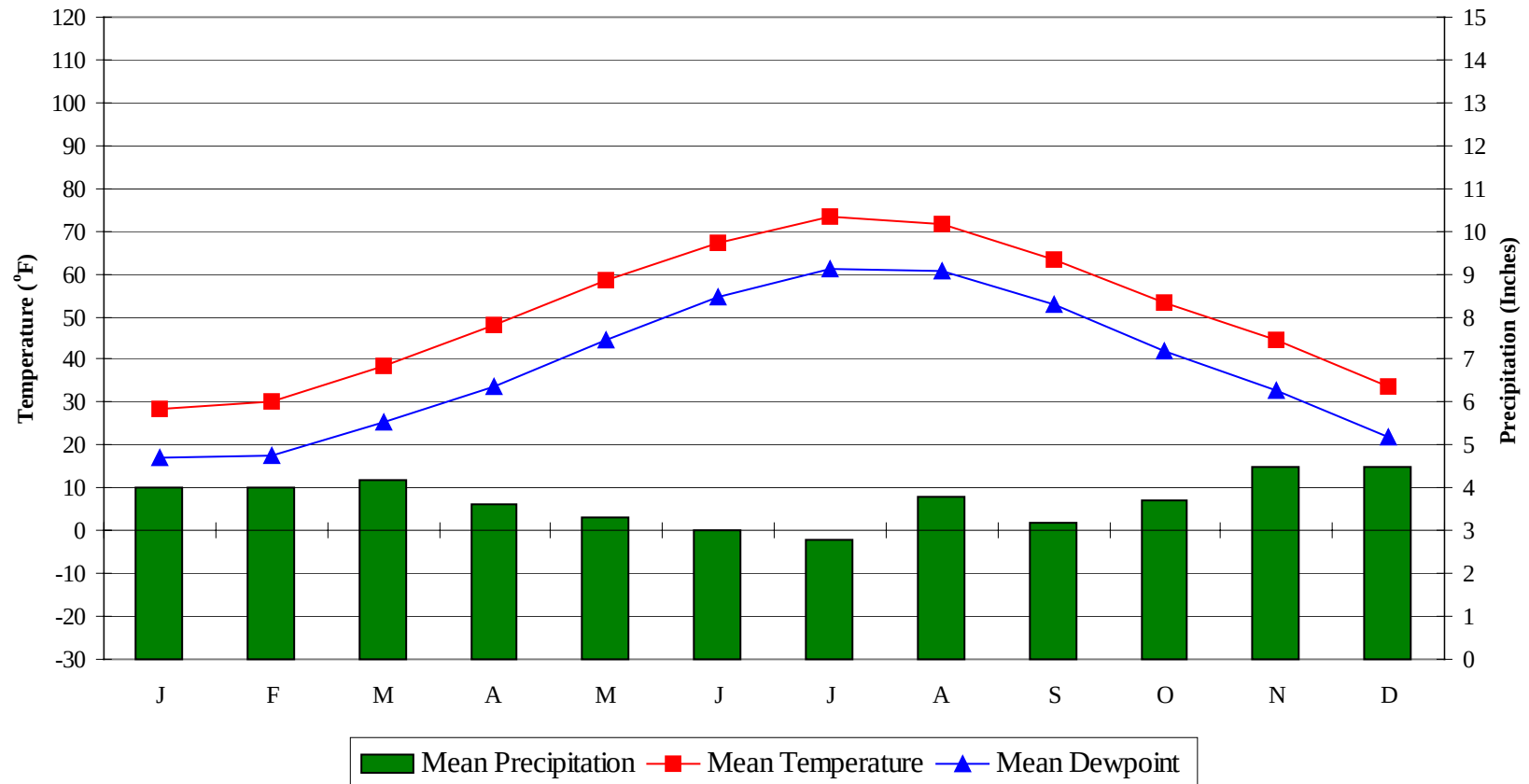
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
6	2.5	110	1.2 + 0.4
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
53.4	N/A	N/A	65

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

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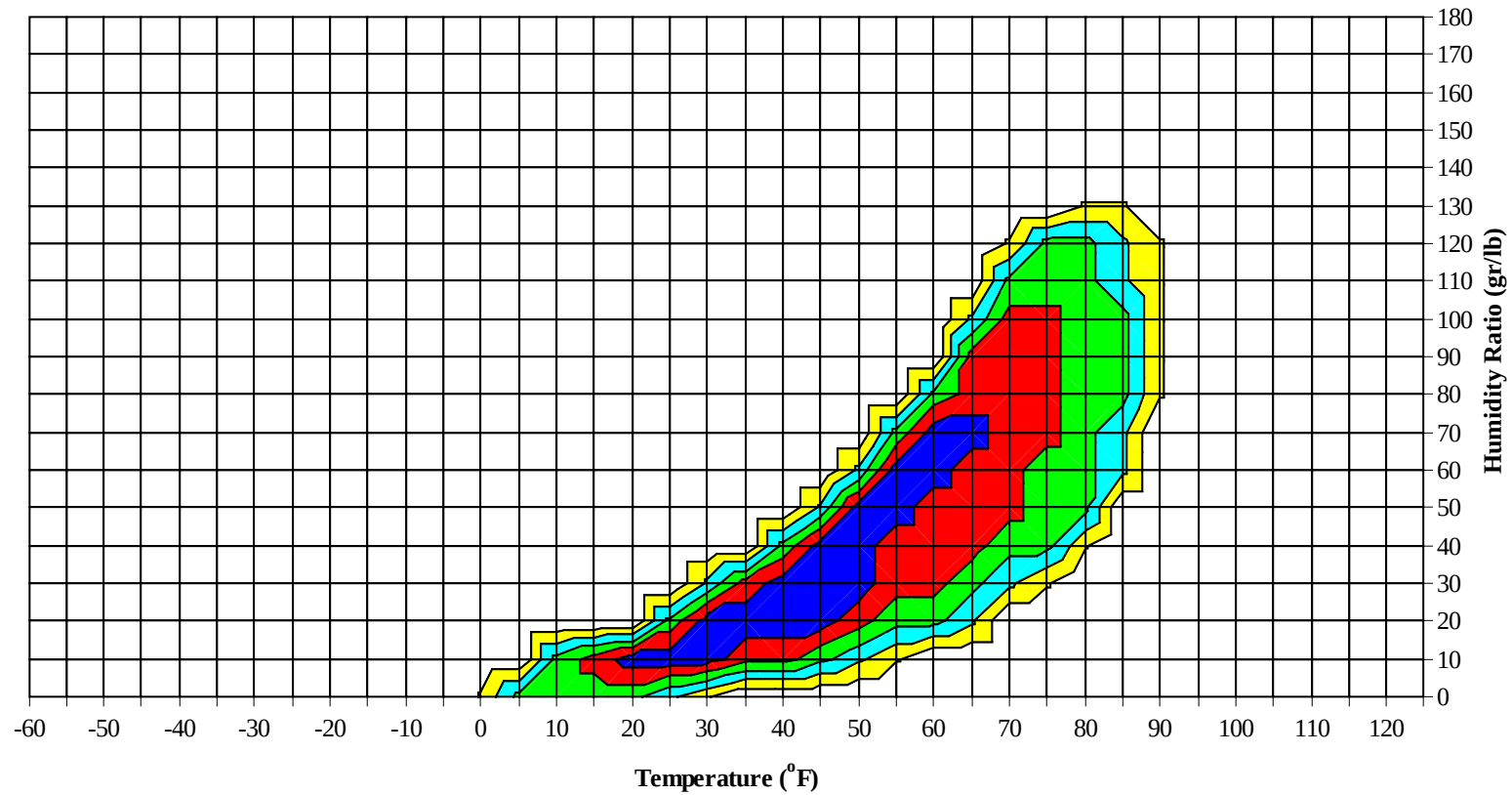
Average Annual Climate



SOUTH WEYMOUTH MA

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Long Term Psychrometric Summary

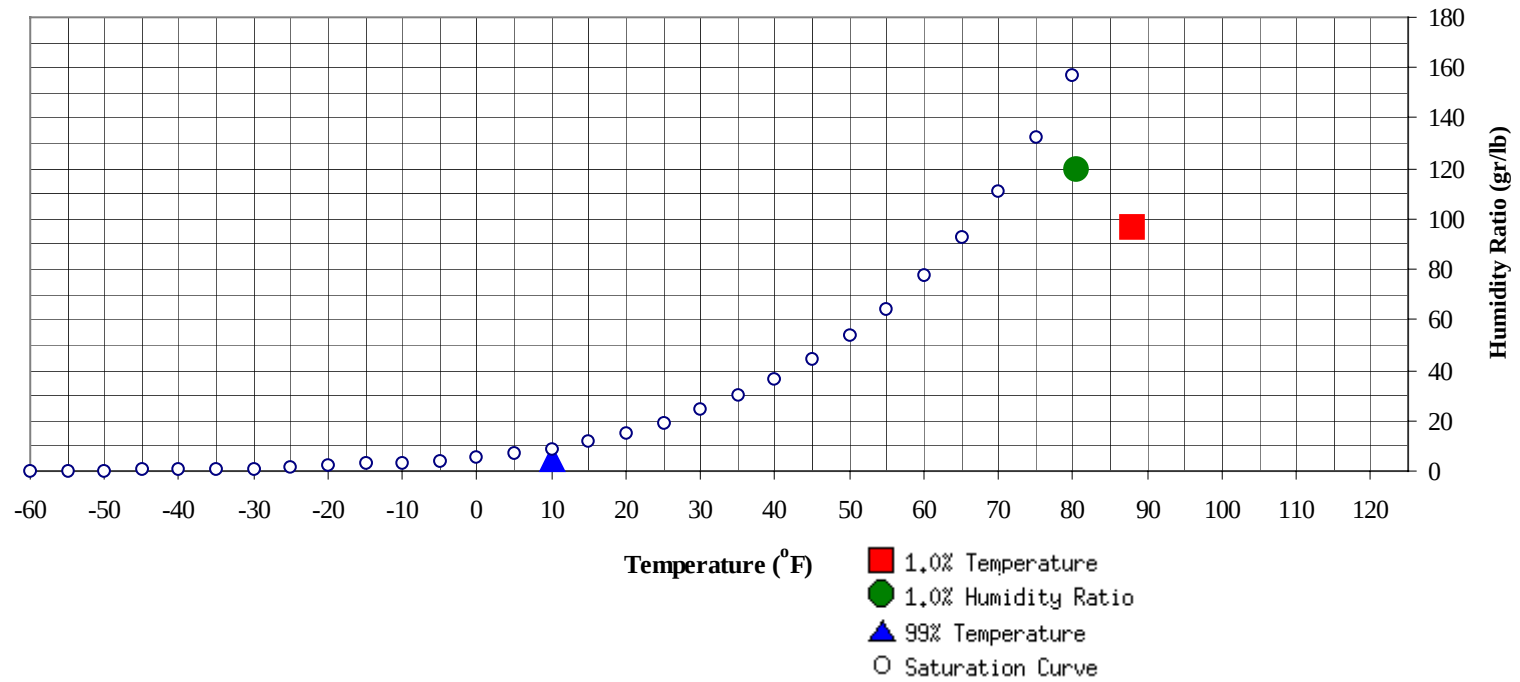


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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Psychrometric Summary of Peak Design Values



99% Dry Bulb	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
	10	4.5	3.1		119.7	80.3	74.3	72	38.0

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	88	97	72.7	36.4

SOUTH WEYMOUTH MA

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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												0		0	63.3
75 / 79												1		1	59.7
70 / 74												2	0	2	57.4
65 / 69		0	0	0	61.3		0	0	0	54.6	0	5	1	6	54.4
60 / 64	0	1	0	1	55.5		2	0	2	52.7	0	9	3	12	52.6
55 / 59	3	4	3	10	53.6	1	5	2	8	50.5	3	13	6	22	49.3
50 / 54	3	8	4	15	47.8	4	12	5	21	46.8	9	30	16	54	45.5
45 / 49	4	15	10	29	42.3	6	17	11	35	42.0	17	43	27	88	40.9
40 / 44	11	29	18	58	37.6	13	27	21	60	37.3	32	50	50	132	37.1
35 / 39	29	40	33	102	33.3	25	40	34	98	32.8	57	49	62	167	33.0
30 / 34	40	50	45	136	28.7	39	46	47	133	28.4	57	29	46	132	28.3
25 / 29	38	40	47	125	23.8	37	35	40	112	23.4	33	12	22	68	23.5
20 / 24	38	29	37	104	19.3	34	22	31	88	18.9	20	4	11	35	18.8
15 / 19	34	18	24	77	14.6	31	12	19	61	14.5	12	2	4	18	14.4
10 / 14	22	9	16	47	9.8	19	6	10	35	9.9	5	0	1	6	9.9
5 / 9	14	4	8	25	5.3	9	1	4	13	5.4	1	0	0	1	5.5
0 / 4	7	2	3	12	0.7	4	0	1	5	0.5	0			0	1.1
-5 / -1	2	0	1	3	-3.5	1	0		1	-3.5					
-10 / -6	1		0	1	-7.3	0			0	-6.0					
-15 / -11	0			0	-13.0										

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.

SOUTH WEYMOUTH MA

WMO No. 725097

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		
100 / 104															
95 / 99						0			0	75.4		2	0	2	73.9
90 / 94		1	0	1	66.5	2	0		2	70.2		6	1	7	72.7
85 / 89		1	0	1	65.1	0	7	1	8	67.9	0	17	3	20	70.5
80 / 84	0	2	0	2	64.1	0	11	3	14	65.4	2	41	10	53	67.6
75 / 79	0	5	1	6	60.3	1	20	6	27	62.5	7	50	23	81	65.0
70 / 74	0	8	3	11	57.7	4	34	13	52	59.6	24	50	44	119	63.0
65 / 69	1	18	6	25	54.5	11	43	25	79	56.5	51	33	54	138	60.5
60 / 64	6	26	12	44	51.8	30	50	43	122	54.1	63	26	49	138	57.0
55 / 59	14	39	24	77	48.6	53	36	55	144	51.0	52	10	34	95	53.2
50 / 54	27	49	42	118	45.0	58	28	52	138	47.3	31	5	18	53	49.1
45 / 49	47	48	54	148	41.4	61	13	37	112	43.5	8	0	3	11	43.8
40 / 44	65	31	56	152	37.7	22	4	11	37	39.0	2		0	2	40.1
35 / 39	48	10	33	91	33.4	6	0	2	8	33.9			0	0	
30 / 34	26	3	9	38	28.8	1		0	1	30.0					
25 / 29	5	0	1	6	24.1										
20 / 24	1	0	0	1	20.1										
15 / 19	0	0	0	0	16.7										
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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SOUTH WEYMOUTH MA

WMO No. 725097

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	78.0		0	0	0	77.0					
95 / 99		5	0	5	77.2		2	0	2	77.7		0		0	78.5
90 / 94	0	15	3	18	74.8	0	12	1	13	75.7		1	0	1	77.5
85 / 89	1	41	10	52	72.1	1	32	6	39	73.2		8	1	9	73.1
80 / 84	6	67	27	100	69.7	5	59	18	83	70.3	0	19	3	22	70.3
75 / 79	24	57	50	132	67.6	22	59	40	122	68.1	3	33	11	47	67.1
70 / 74	64	38	67	170	66.1	55	46	63	163	65.8	18	52	27	97	64.1
65 / 69	72	17	53	142	62.6	68	23	60	152	62.5	34	55	43	131	60.6
60 / 64	52	6	27	84	58.5	60	11	42	114	58.4	55	47	59	161	57.0
55 / 59	22	1	9	32	53.7	28	3	14	45	53.8	58	22	52	131	52.8
50 / 54	5	0	2	7	49.1	7	0	2	9	49.3	37	4	27	68	48.1
45 / 49	1		0	1	45.3	1		1	2	44.0	23	0	11	34	43.4
40 / 44						0		0	0	41.8	9	0	5	15	38.9
35 / 39						0			0	37.3	3		1	4	34.9
30 / 34											0			0	31.1
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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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															
85 / 89		0		0	74.0										
80 / 84		2		2	67.1		0		0	62.5					
75 / 79	0	8	0	8	65.0		1		1	63.0					
70 / 74	1	22	3	26	62.5	0	4	0	4	61.6		0		0	63.0
65 / 69	5	35	13	53	59.3	1	9	2	12	59.5		1		1	57.6
60 / 64	22	45	31	99	56.1	8	19	10	36	56.3	1	3	1	5	55.9
55 / 59	36	54	46	136	51.6	15	28	21	65	51.7	4	10	5	19	52.5
50 / 54	50	48	55	153	46.9	22	41	27	90	46.8	8	13	11	32	47.7
45 / 49	52	26	48	125	42.4	36	60	45	140	42.1	14	26	17	56	42.5
40 / 44	38	7	30	75	37.9	43	41	46	129	37.0	22	42	29	93	37.7
35 / 39	27	2	16	45	33.5	48	26	46	119	32.5	36	53	47	136	33.0
30 / 34	15	0	5	20	29.5	44	9	31	84	28.6	59	46	54	159	28.3
25 / 29	2		0	2	25.6	18	3	9	29	24.1	37	26	35	98	23.7
20 / 24						4	1	3	8	19.5	27	15	22	65	19.1
15 / 19						1	0	1	2	15.3	19	10	18	46	14.6
10 / 14						0			0	12.3	11	4	7	22	9.9
5 / 9											7	1	2	9	5.4
0 / 4											3	0	1	4	1.1
-5 / -1											0	0	0	0	-3.4
-10 / -6											0	0	0	0	-7.9
-15 / -11											0			0	-11.0

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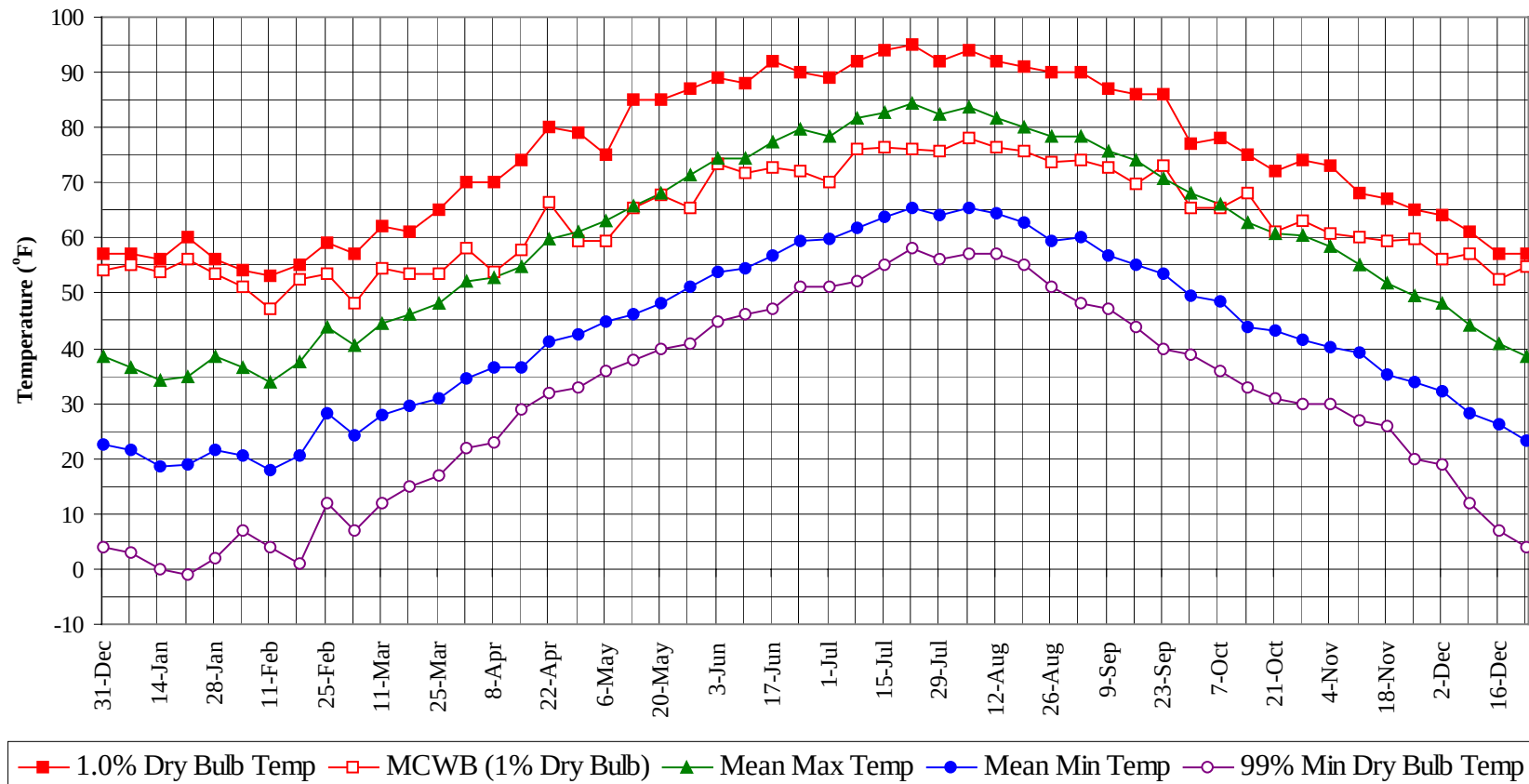
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

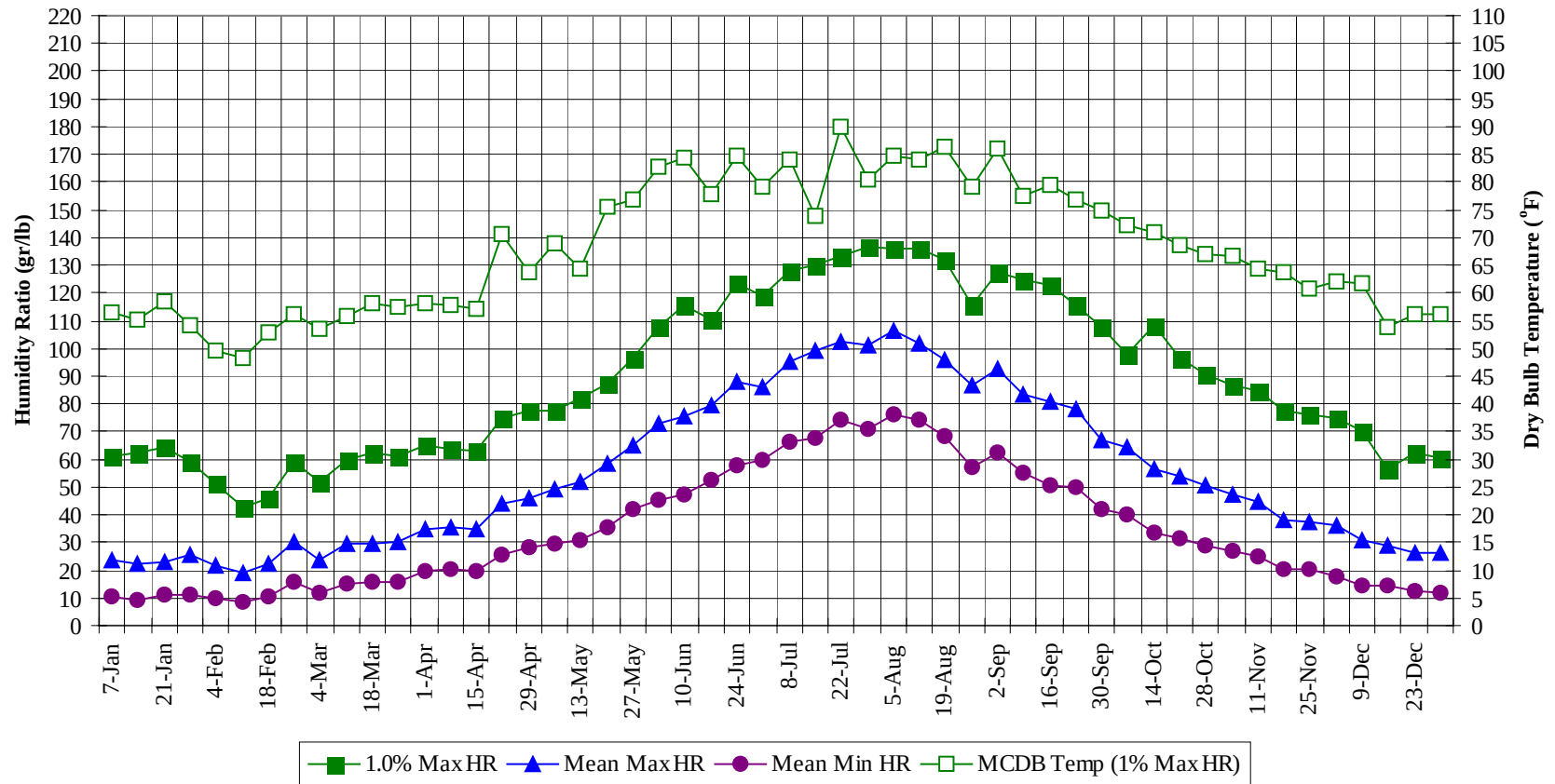
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		0	0	0	77.3
95 / 99		8	0	8	76.7
90 / 94	0	38	5	43	74.4
85 / 89	2	106	20	128	72.0
80 / 84	14	203	62	278	69.2
75 / 79	60	235	131	425	66.7
70 / 74	168	256	219	643	64.3
65 / 69	244	240	254	737	60.5
60 / 64	299	244	274	817	56.4
55 / 59	289	224	265	778	51.7
50 / 54	259	237	258	754	46.9
45 / 49	270	245	262	777	42.2
40 / 44	256	229	268	753	37.5
35 / 39	278	218	276	771	33.0
30 / 34	279	182	242	702	28.5
25 / 29	169	115	158	442	23.7
20 / 24	125	72	106	304	19.1
15 / 19	98	42	66	206	14.6
10 / 14	58	19	34	111	9.9
5 / 9	31	6	15	51	5.4
0 / 4	16	2	4	22	0.7
-5 / -1	4	1	1	6	-3.5
-10 / -6	1	0	1	2	-7.5
-15 / -11	0			0	-12.3

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

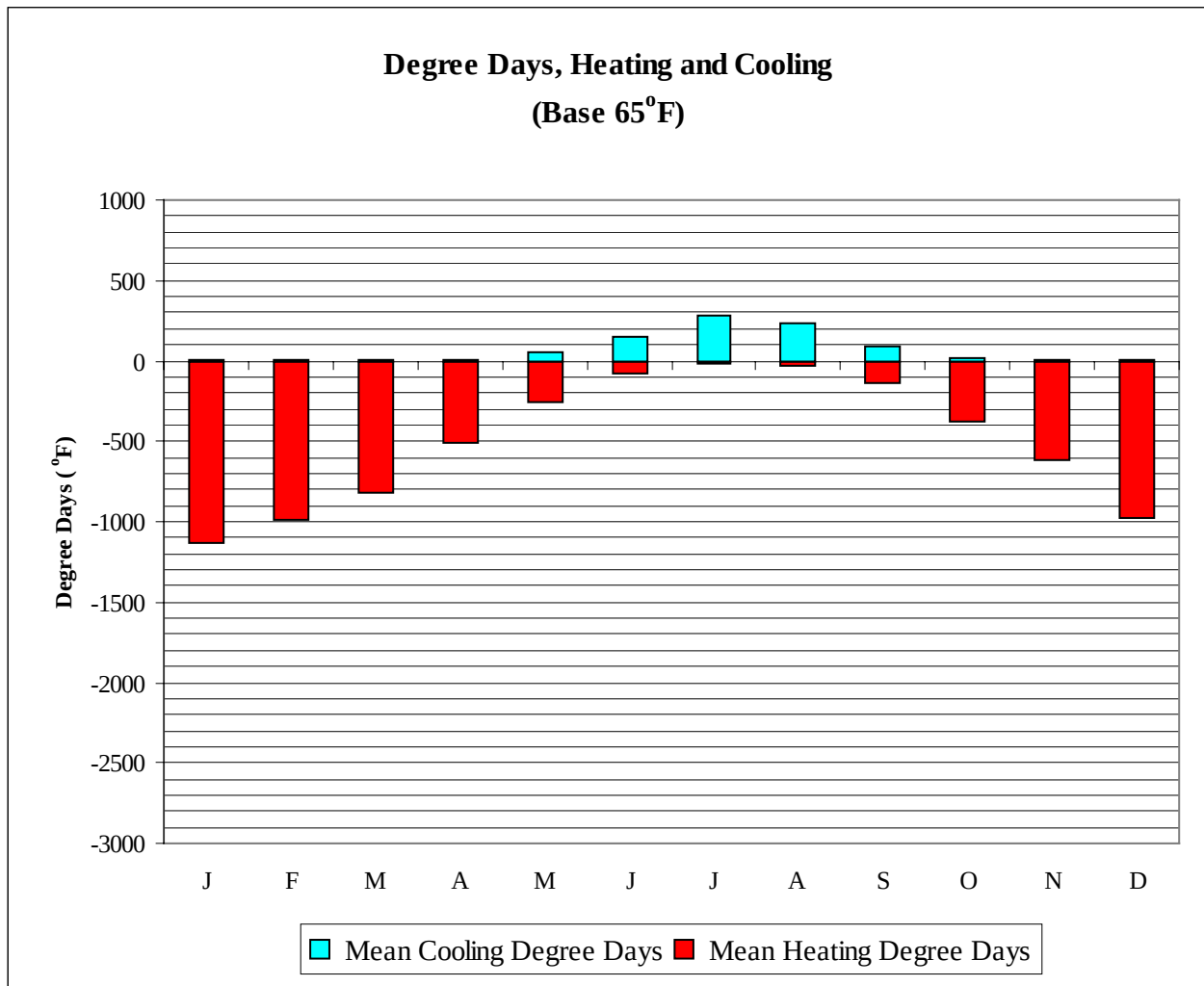


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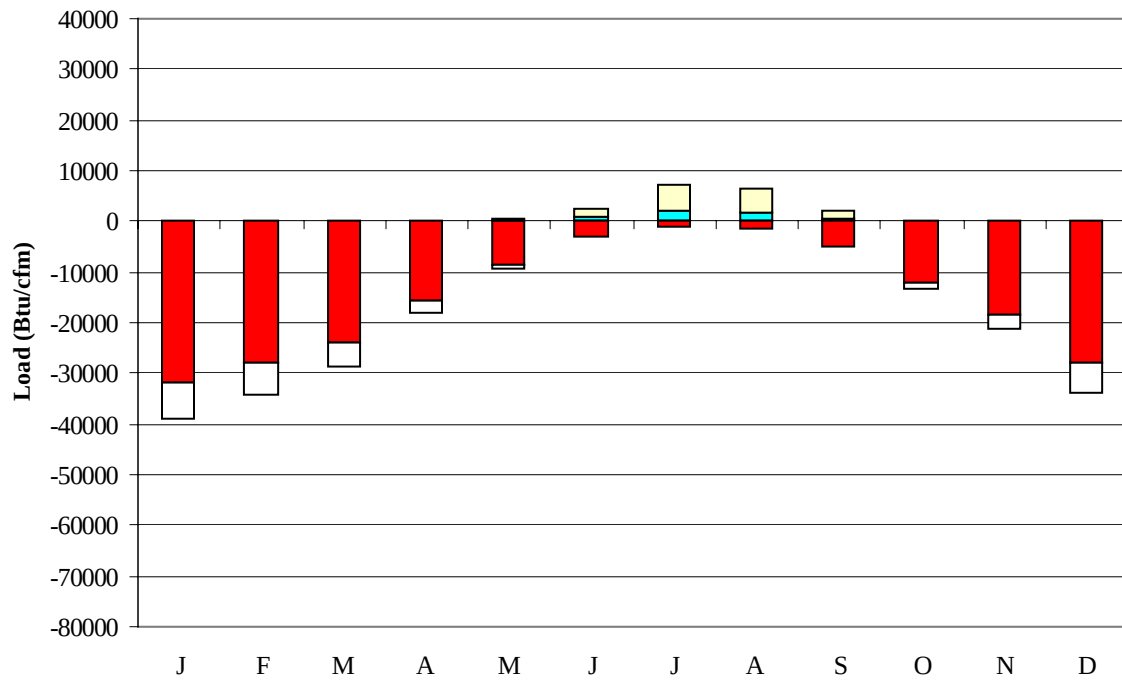
Long Term Dry Bulb Temperature and Humidity Summary

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	57.0	55.3	36.6	21.6	3.0	60.9	56.4	23.9	10.8
14-Jan	56.0	53.9	34.2	18.5	0.0	62.3	55.3	22.3	9.4
21-Jan	60.0	56.1	35.0	18.9	-1.0	64.4	58.4	22.7	10.9
28-Jan	56.0	53.4	38.5	21.7	2.0	58.8	54.3	25.6	11.4
4-Feb	54.0	51.3	36.5	20.6	7.0	51.1	49.7	21.8	9.7
11-Feb	53.0	47.2	33.9	17.8	4.0	42.7	48.3	18.8	8.5
18-Feb	55.0	52.4	37.4	20.7	1.0	46.2	52.7	22.4	10.4
25-Feb	59.0	53.3	43.8	28.1	12.0	58.8	56.0	30.4	15.5
4-Mar	57.0	48.3	40.4	24.3	7.0	51.8	53.5	23.8	11.9
11-Mar	62.0	54.5	44.4	27.9	12.0	59.5	55.9	29.8	14.9
18-Mar	61.0	53.6	46.2	29.6	15.0	62.3	58.2	29.8	15.6
25-Mar	65.0	53.5	48.2	30.8	17.0	60.9	57.4	30.5	16.0
1-Apr	70.0	58.0	52.2	34.6	22.0	65.1	58.2	34.8	19.4
8-Apr	70.0	53.8	52.8	36.5	23.0	63.7	57.7	35.2	20.1
15-Apr	74.0	57.7	54.7	36.6	29.0	63.0	57.1	35.0	19.8
22-Apr	80.0	66.4	59.7	41.2	32.0	74.9	70.5	44.3	25.6
29-Apr	79.0	59.4	61.1	42.5	33.0	77.7	63.6	45.9	28.0
6-May	75.0	59.3	63.2	44.8	36.0	77.7	68.8	49.2	29.3
13-May	85.0	65.4	65.7	46.1	38.0	81.9	64.4	51.7	31.0
20-May	85.0	67.9	68.1	48.1	40.0	87.5	75.5	58.7	35.8
27-May	87.0	65.6	71.4	51.3	41.0	96.6	76.9	65.0	42.0
3-Jun	89.0	73.3	74.3	53.7	45.0	107.8	82.8	72.7	45.6
10-Jun	88.0	71.9	74.5	54.6	46.0	115.5	84.4	75.3	47.6
17-Jun	92.0	72.8	77.5	57.0	47.0	110.6	77.8	79.7	52.4
24-Jun	90.0	72.2	79.7	59.6	51.0	123.2	84.8	88.2	58.1
1-Jul	89.0	70.2	78.5	59.8	51.0	119.0	79.1	86.3	60.0
8-Jul	92.0	76.2	81.6	61.8	52.0	128.1	84.1	95.4	66.1
15-Jul	94.0	76.3	82.6	63.7	55.0	130.2	74.0	98.9	67.8
22-Jul	95.0	76.2	84.4	65.5	58.0	133.0	89.9	102.6	74.1
29-Jul	92.0	75.9	82.5	64.2	56.0	136.5	80.5	101.2	71.1
5-Aug	94.0	77.9	83.8	65.4	57.0	135.8	84.8	106.5	76.3
12-Aug	92.0	76.3	81.6	64.4	57.0	135.8	84.1	101.8	74.2
19-Aug	91.0	75.6	80.2	62.9	55.0	132.3	86.2	95.6	68.3
26-Aug	90.0	73.6	78.4	59.4	51.0	115.5	79.2	86.4	57.3
2-Sep	90.0	74.2	78.6	60.2	48.0	127.4	86.1	92.9	62.6
9-Sep	87.0	72.6	75.6	57.0	47.0	124.6	77.4	83.1	55.0
16-Sep	86.0	69.9	73.9	55.2	44.0	122.5	79.5	80.7	50.7
23-Sep	86.0	73.2	70.9	53.5	40.0	115.5	77.0	77.9	49.8
30-Sep	77.0	65.4	68.2	49.5	39.0	107.8	74.7	67.2	42.2
7-Oct	78.0	65.4	66.2	48.4	36.0	98.0	72.1	64.7	40.3
14-Oct	75.0	67.9	62.7	43.9	33.0	108.5	70.9	56.6	33.5
21-Oct	72.0	61.2	60.9	43.3	31.0	96.6	68.5	53.9	31.4
28-Oct	74.0	63.2	60.6	41.5	30.0	90.3	67.0	50.5	29.0
4-Nov	73.0	60.6	58.6	40.2	30.0	86.8	66.8	47.3	27.2
11-Nov	68.0	60.0	55.0	39.2	27.0	84.7	64.3	44.8	25.2
18-Nov	67.0	59.5	51.7	35.3	26.0	77.7	63.6	38.2	20.5
25-Nov	65.0	59.8	49.5	33.9	20.0	76.3	60.8	37.6	20.0
2-Dec	64.0	56.0	48.3	32.0	19.0	74.9	62.1	35.9	17.9
9-Dec	61.0	57.0	44.3	28.4	12.0	70.0	61.6	31.0	14.5
16-Dec	57.0	52.4	41.0	26.2	7.0	56.7	53.8	28.6	14.4
23-Dec	57.0	54.7	38.5	23.1	4.0	62.3	56.3	26.2	12.3
31-Dec	57.0	54.3	38.6	22.5	4.0	60.2	56.1	26.0	11.8



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1132
FEB	0	984
MAR	1	826
APR	10	514
MAY	54	259
JUN	155	81
JUL	277	22
AUG	234	30
SEP	87	134
OCT	15	383
NOV	2	617
DEC	0	981
ANN	835	5963

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	-31740	0	-7233
FEB	0	-27704	0	-6476
MAR	2	-23794	0	-4903
APR	50	-15549	3	-2419
MAY	288	-8633	231	-569
JUN	951	-3193	1633	-22
JUL	2120	-1099	5205	0
AUG	1591	-1470	4814	-3
SEP	366	-4951	1653	-93
OCT	24	-12139	254	-1058
NOV	2	-18292	35	-2924
DEC	0	-27841	0	-5858
ANN	5394	-176405	13828	-31558

Average Annual Solar Radiation – Nearest Available Site

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

City: BOSTON
 State: MA
 WBAN No: 14739
 Lat(N): 42.37
 Long(W): 71.03
 Elev(ft): 16

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.602
 Vert Gap: 0.329

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	590	850	1180	1490	1780	1940	1920	1700	1350	950	600	480	1240
	Std Dev	42	80	91	122	129	134	120	99	80	63	48	37	33
	Minimum	480	680	1000	1280	1530	1670	1660	1510	1230	850	480	390	1160
	Maximum	700	1060	1390	1710	2040	2230	2090	1890	1500	1100	690	560	1300
	Diffuse	280	400	550	700	830	900	870	760	590	420	300	240	570
Clear Day	Global	770	1120	1610	2120	2460	2580	2490	2190	1740	1220	820	660	1650
NORTH	Global	180	250	340	430	540	620	580	480	370	270	190	150	370
	Diffuse	180	250	340	420	500	540	530	460	370	270	190	150	350
Clear Day	Global	170	240	320	430	570	670	620	470	350	260	180	150	370
EAST	Global	410	560	740	890	1000	1080	1060	990	830	620	400	340	740
	Diffuse	220	310	420	520	600	640	630	570	460	340	230	190	430
Clear Day	Global	600	810	1070	1300	1410	1450	1410	1300	1100	850	610	520	1040
SOUTH	Global	1040	1150	1110	980	880	840	880	990	1120	1140	930	900	1000
	Diffuse	330	420	490	540	580	600	600	580	520	430	320	290	480
Clear Day	Global	1740	1870	1790	1480	1170	1020	1070	1310	1620	1780	1710	1640	1510
WEST	Global	410	570	730	870	990	1050	1060	960	810	610	400	340	730
	Diffuse	220	310	420	520	600	650	640	580	460	340	230	190	430
Clear Day	Global	600	810	1070	1300	1410	1450	1410	1300	1100	850	610	520	1040

Average Annual Solar Heat and Illumination – Nearest Available Site

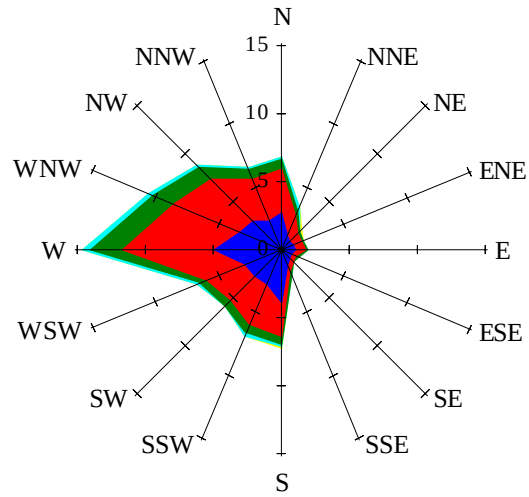
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	370	580	830	1070	1290	1410	1390	1220	960	660	390	300	870
NORTH	Unshaded	130	170	240	290	360	410	390	330	260	190	130	110	250
	Shaded	110	150	200	260	310	350	340	290	230	160	110	92	220
EAST	Unshaded	280	390	520	640	710	770	750	700	590	440	280	230	530
	Shaded	250	340	440	530	590	630	620	580	490	380	240	200	440
SOUTH	Unshaded	780	850	780	650	560	520	550	640	760	830	700	680	690
	Shaded	760	780	600	410	350	360	360	380	530	720	670	660	550
WEST	Unshaded	280	390	520	620	700	750	750	680	570	430	270	230	520
	Shaded	250	340	440	520	580	610	620	570	490	370	240	200	440

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	43	71	76	56	18	54	86	99	90	61
	M.Cloudy	24	44	48	35	11	34	56	70	64	42
NORTH	M.Clear	10	14	15	12	6	14	17	17	17	15
	M.Cloudy	10	15	16	13	5	13	18	19	19	14
EAST	M.Clear	72	49	15	12	6	79	67	23	17	15
	M.Cloudy	26	28	16	13	5	36	40	23	19	14
SOUTH	M.Clear	46	78	83	60	19	13	39	52	44	19
	M.Cloudy	19	38	42	30	8	13	28	38	33	16
WEST	M.Clear	10	14	31	68	52	13	17	17	58	77
	M.Cloudy	10	15	22	32	16	13	18	19	40	42
M.Clear	(% hrs)	37	34	32	32	35	39	39	32	30	32
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	32	67	81	70	38	15	37	39	19	0
	M.Cloudy	19	42	54	46	24	9	22	23	12	0
NORTH	M.Clear	9	14	16	15	11	5	9	10	6	0
	M.Cloudy	8	15	17	16	10	4	9	9	5	0
EAST	M.Clear	66	63	20	15	11	38	31	10	6	0
	M.Cloudy	24	33	19	16	10	11	15	9	5	0
SOUTH	M.Clear	27	62	78	65	32	39	78	80	47	0
	M.Cloudy	13	32	45	37	17	11	28	29	15	0
WEST	M.Clear	9	14	16	57	67	5	9	25	41	0
	M.Cloudy	8	15	17	34	29	4	9	14	13	0
M.Clear	(% hrs)	44	46	40	40	41	35	35	35	35	37

Wind Summary - December, January, and February

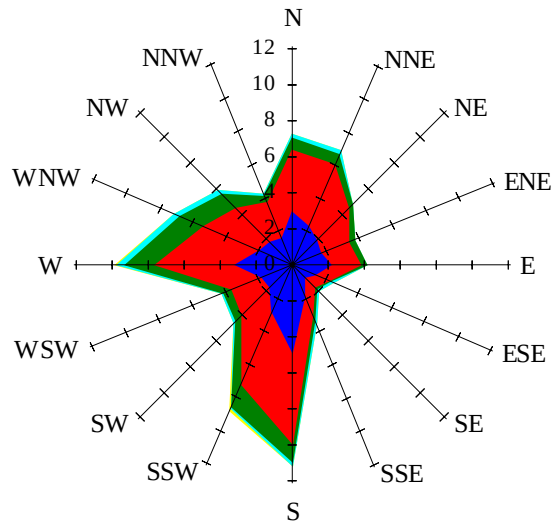
Labels of Percent Frequency on North Axis



Percent Calm = 13.09

Wind Summary - March, April, and May

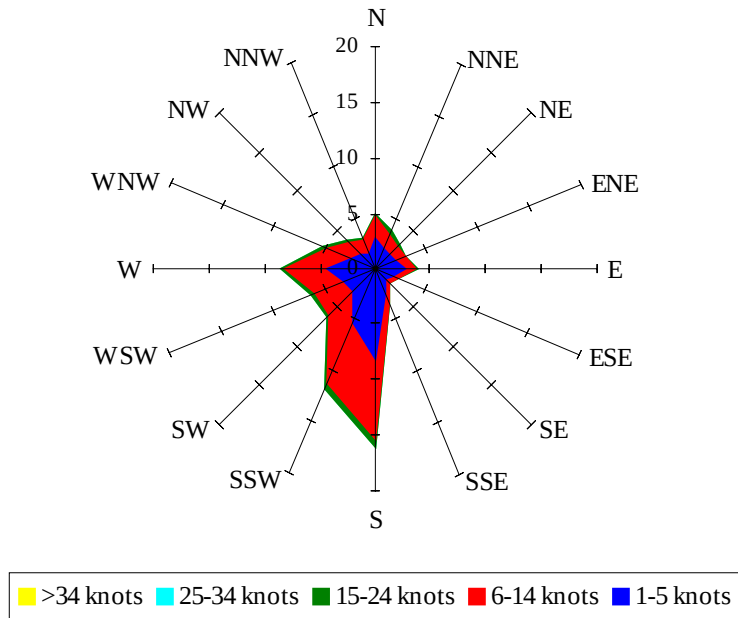
Labels of Percent Frequency on North Axis



Percent Calm = 10.79

Wind Summary - June, July, and August

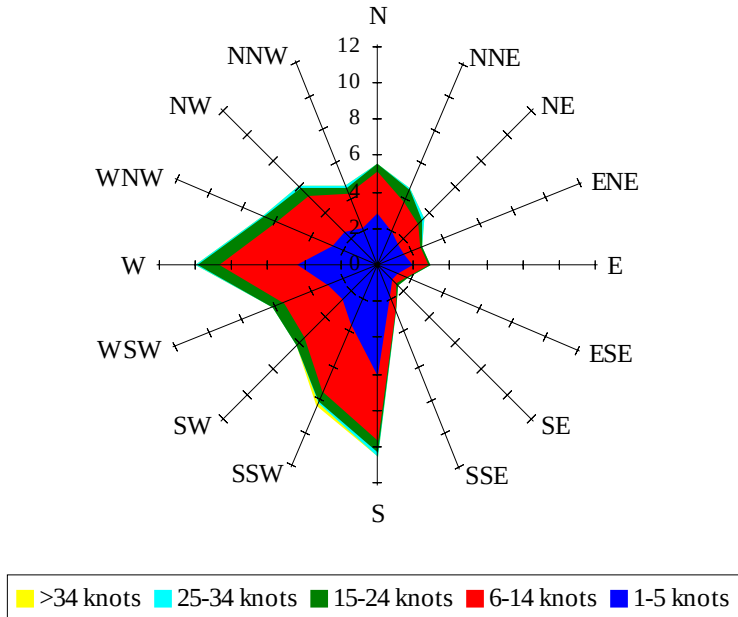
Labels of Percent Frequency on North Axis



Percent Calm = 13.98

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 17.02