

AUGUSTA ME

Latitude = 44.32 N

Longitude = 69.80 W

Period of Record = 1973 to 1996

WMO No. 726185

Elevation = 351 feet

Average Pressure = 29.56 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	91	74	103	11.9	WSW
0.4% Occurrence	86	71	94	11.3	W
1.0% Occurrence	83	69	88	11.1	S
2.0% Occurrence	81	68	86	10.9	S
Mean Daily Range	17	-	-	-	-
97.5% Occurrence	5	4	4	10.4	WNW
99.0% Occurrence	-1	-2	3	10.3	WNW
99.6% Occurrence	-5	-6	2	9.8	WNW
Median of Extreme Lows	-10	-11	2	9.9	WNW
	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	78	85	133	9.8	S
0.4% Occurrence	75	81	121	9.9	S
1.0% Occurrence	73	80	111	9.7	S
2.0% Occurrence	71	78	104	9.6	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	143	81	0.94	6.5	S
0.4% Occurrence	124	79	0.82	9.0	S
1.0% Occurrence	113	76	0.74	9.1	S
2.0% Occurrence	105	74	0.69	9.0	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		3	223	89	540

Other Site Data

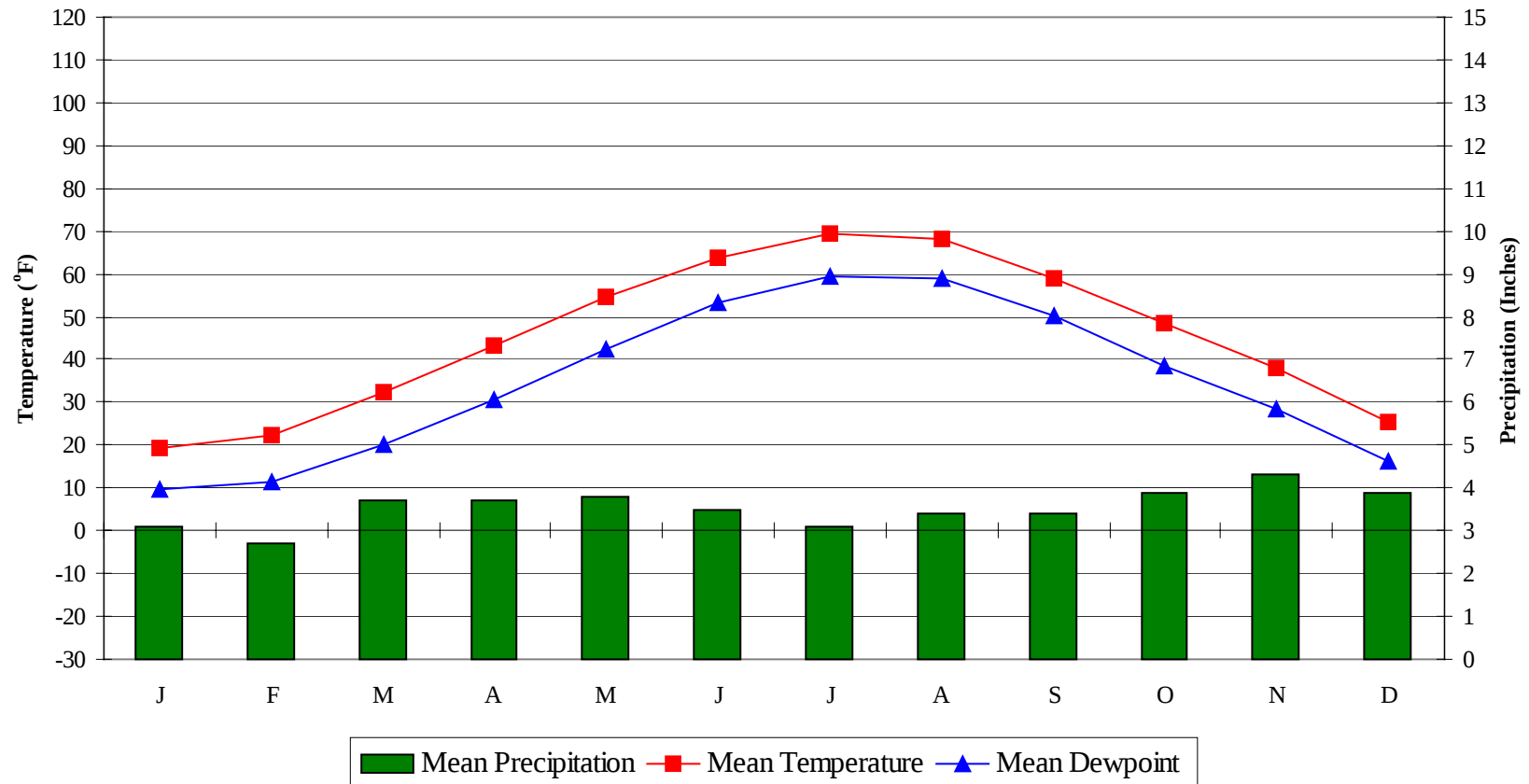
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
5	2.3	100	0.8 + 0.2
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
47.9	N/A	N/A	65

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

AUGUSTA ME

WMO No. 726185

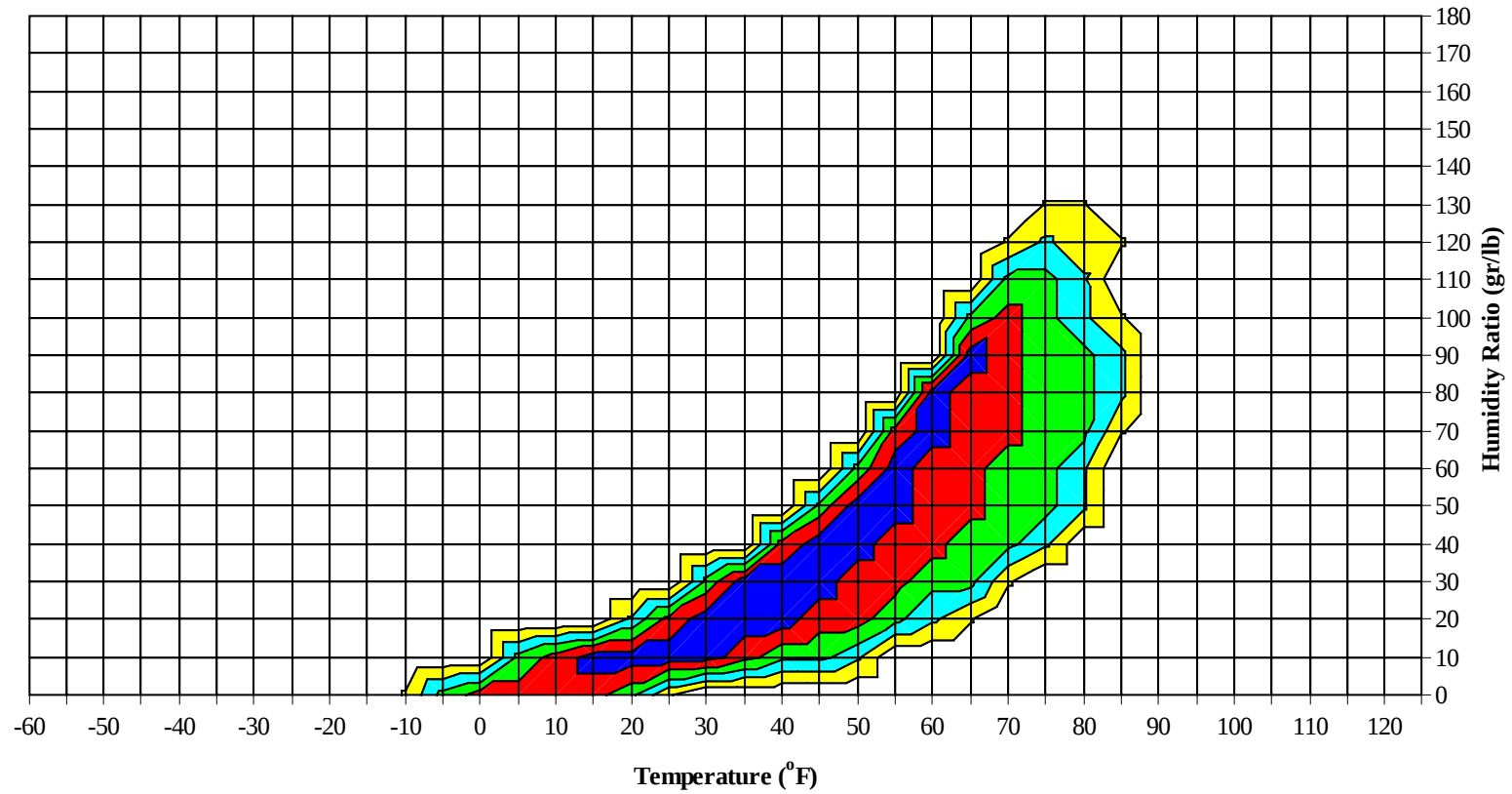
Average Annual Climate



AUGUSTA ME

WMO No. 726185

Long Term Psychrometric Summary

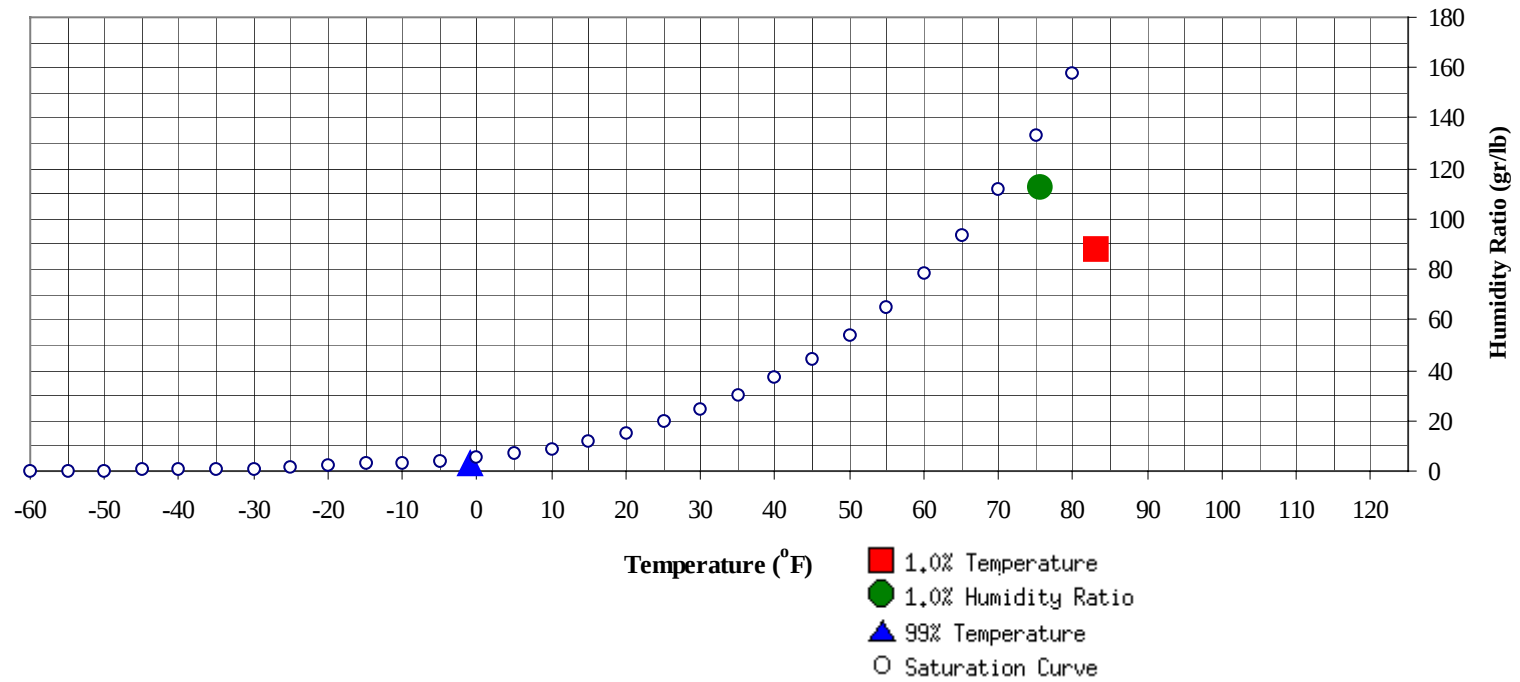


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

AUGUSTA ME

WMO No. 726185

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)
	-1	2.8	0.2		112.7	75.6	71.7	70	35.8

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	83	87.7	69.4	33.7

AUGUSTA ME

WMO No. 726185

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		
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74												0	0	0	53.3
65 / 69											0	1	0	1	51.5
60 / 64											0	2	1	3	49.5
55 / 59	0	0		0	52.3		1	0	1	47.5	0	6	2	8	46.6
50 / 54	1	2	2	5	50.4	0	2	1	3	46.5	1	12	5	18	43.5
45 / 49	2	3	3	8	45.1	1	6	2	9	42.6	5	27	16	48	41.0
40 / 44	3	10	5	18	38.4	8	15	11	34	38.0	15	45	31	91	36.9
35 / 39	12	24	19	55	34.3	17	28	24	69	33.6	45	56	59	161	33.4
30 / 34	27	34	32	93	29.6	20	34	33	88	28.8	61	42	55	159	28.9
25 / 29	25	34	30	89	24.2	24	36	34	95	23.7	39	23	32	94	23.7
20 / 24	28	38	35	101	19.6	29	35	34	99	19.3	28	17	23	68	19.0
15 / 19	32	33	38	103	14.9	34	28	31	94	14.8	23	11	14	48	14.7
10 / 14	34	28	30	92	10.3	34	18	25	77	10.1	16	4	8	28	9.9
5 / 9	32	21	26	79	5.6	26	10	16	52	5.4	8	1	2	11	5.5
0 / 4	26	12	16	54	0.9	16	5	7	28	0.8	4	0	0	4	0.7
-5 / -1	13	5	6	24	-3.4	8	2	3	13	-3.6	1	0	0	1	-2.8
-10 / -6	9	2	4	15	-7.3	6	1	2	9	-7.5	0	0		0	-8.3
-15 / -11	4	1	1	6	-12.4	1	0	0	1	-11.8	0			0	-12.0
-20 / -16	1		0	1	-16.0	0			0	-17.0					

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.

AUGUSTA ME

WMO No. 726185

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		
95 / 99												0	0	0	74.4
90 / 94		0		0	66.0		0	0	0	64.8		1	0	1	72.7
85 / 89		0	0	0	65.5		2	0	2	67.4		7	2	9	70.3
80 / 84		0	0	0	63.3		6	1	7	65.5	0	21	5	26	67.6
75 / 79		1	0	1	60.8	0	12	3	15	62.3	3	44	15	62	64.2
70 / 74	0	5	1	6	56.8	2	24	8	34	59.3	11	55	32	98	62.1
65 / 69	0	8	2	10	53.3	5	41	16	62	55.3	26	44	48	118	60.1
60 / 64	1	18	7	26	49.8	11	53	33	97	53.1	56	35	60	152	57.6
55 / 59	3	29	15	47	47.5	31	48	51	129	50.8	77	22	52	151	54.1
50 / 54	14	40	28	82	44.7	65	34	62	160	47.8	51	8	22	81	49.7
45 / 49	27	50	43	121	41.3	71	22	51	143	43.9	14	1	5	20	45.2
40 / 44	49	47	58	155	37.7	48	7	20	75	39.7	2		0	2	40.7
35 / 39	72	26	53	152	33.9	13	1	3	17	34.8	0			0	34.8
30 / 34	52	11	25	88	29.4	3		0	3	29.1					
25 / 29	16	3	5	24	24.2	0			0	24.3					
20 / 24	4	1	1	6	19.8										
15 / 19	1	0	1	2	14.6										
10 / 14	0	0		0	9.9										
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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AUGUSTA ME

WMO No. 726185

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		
95 / 99		0		0	75.7		0	0	0	78.4					
90 / 94		4	0	4	75.5		2	0	2	75.5					
85 / 89	0	16	4	20	72.1	0	14	2	16	72.4		2	0	2	71.8
80 / 84	1	54	15	70	68.8	1	44	10	55	69.7		8	1	9	69.2
75 / 79	8	67	37	112	66.7	6	60	28	95	67.2	0	19	4	23	65.6
70 / 74	34	55	58	147	65.1	27	63	55	145	65.2	4	34	15	53	63.1
65 / 69	71	33	66	170	63.0	60	39	65	165	62.8	15	51	28	94	60.1
60 / 64	81	15	49	145	59.4	76	18	56	150	59.2	34	61	51	146	56.8
55 / 59	44	3	17	64	54.8	52	5	23	80	54.5	58	43	64	166	53.4
50 / 54	10	0	1	11	50.3	21	2	7	30	50.3	56	18	49	123	49.1
45 / 49	0			0	45.2	5		1	6	45.6	44	4	21	69	44.4
40 / 44						0			0	42.5	20	0	5	25	40.0
35 / 39											7		1	8	35.3
30 / 34											1		0	1	31.1
25 / 29											0		0	0	26.0
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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AUGUSTA ME

WMO No. 726185

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		
95 / 99															
90 / 94															
85 / 89															
80 / 84		0		0	67.6										
75 / 79		1	0	1	63.7										
70 / 74	0	6	1	7	60.2		0		0	58.0					
65 / 69	1	15	4	20	57.8	0	2	1	3	59.1		0		0	51.0
60 / 64	7	36	15	58	55.5	1	6	2	9	56.0		0		0	52.8
55 / 59	17	48	32	97	51.7	6	12	7	25	52.3	1	1	1	3	54.2
50 / 54	40	59	55	154	47.4	11	24	17	52	47.4	3	4	3	10	49.2
45 / 49	50	47	56	153	42.8	20	38	31	89	43.0	3	9	6	18	44.3
40 / 44	53	26	46	126	38.2	34	50	40	124	37.8	9	18	13	40	38.3
35 / 39	45	9	28	82	33.8	48	49	52	149	33.2	24	38	29	91	33.8
30 / 34	27	1	9	37	29.9	52	33	48	133	28.9	43	49	51	143	29.3
25 / 29	7		1	8	26.1	37	15	25	77	24.4	39	39	42	120	24.4
20 / 24	0		0	0	20.2	17	7	10	34	19.9	36	31	32	99	19.8
15 / 19						9	2	6	17	15.7	26	24	26	76	15.2
10 / 14						4	0	2	6	11.2	21	15	20	56	10.5
5 / 9						1	0	0	1	7.0	20	10	15	45	5.7
0 / 4						0			0	3.0	13	5	8	26	1.1
-5 / -1											7	2	3	12	-3.3
-10 / -6											3	1	1	5	-7.7
-15 / -11											1		0	1	-11.1
-20 / -16															

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AUGUSTA ME**WMO No. 726185****Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)****Period of Record = 1973 to 1996**

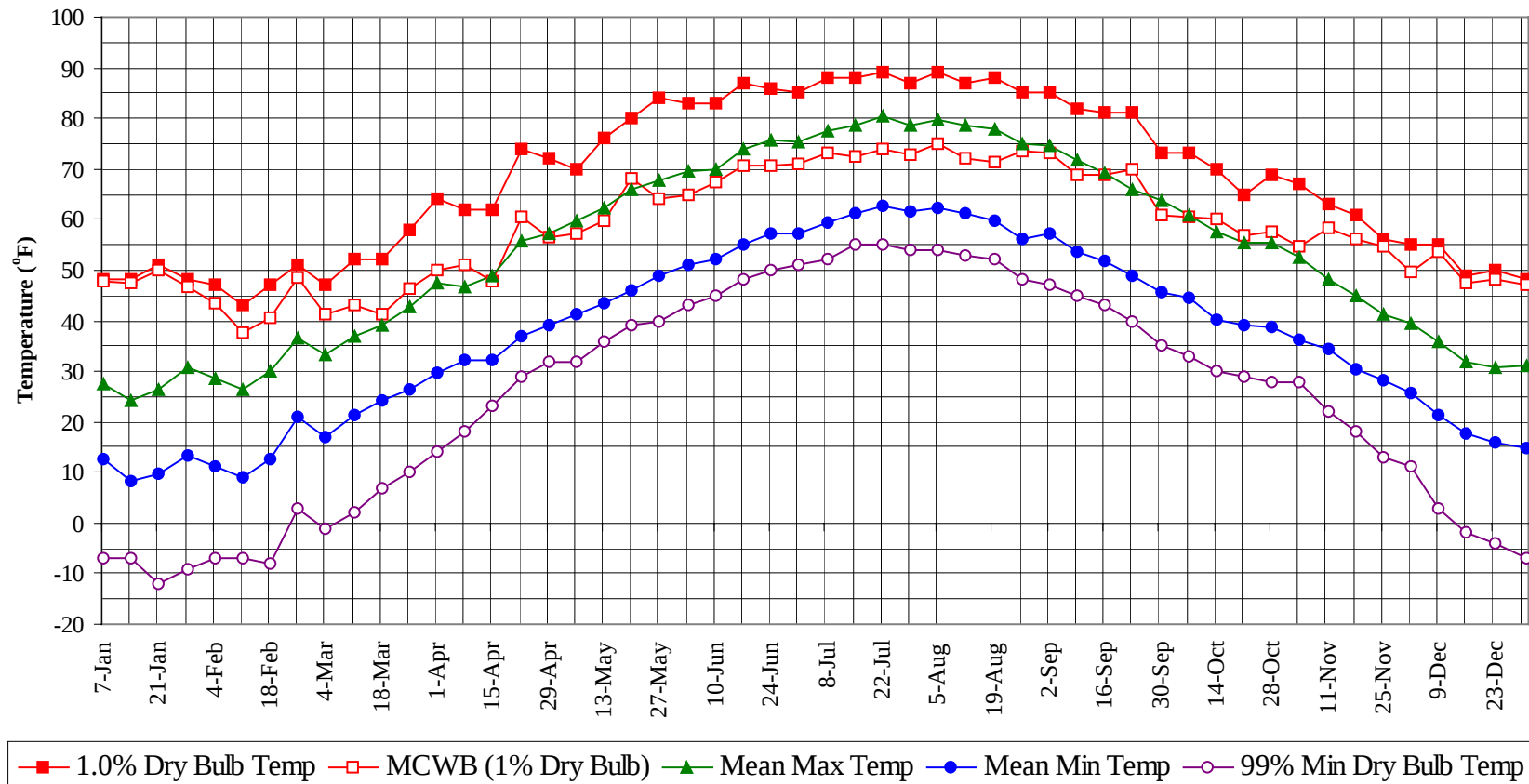
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99		1	0	1	75.9
90 / 94		7	1	8	74.3
85 / 89	0	40	8	48	71.6
80 / 84	2	133	32	167	68.7
75 / 79	17	205	88	309	66.0
70 / 74	77	242	169	487	63.7
65 / 69	177	235	229	640	60.9
60 / 64	265	243	273	780	57.1
55 / 59	288	217	264	768	52.6
50 / 54	274	207	252	732	47.8
45 / 49	242	207	235	683	43.0
40 / 44	242	222	230	693	38.1
35 / 39	283	233	269	784	33.7
30 / 34	287	207	255	748	29.1
25 / 29	189	150	170	509	24.1
20 / 24	143	130	137	410	19.5
15 / 19	125	99	117	341	15.0
10 / 14	110	66	85	261	10.2
5 / 9	87	43	60	190	5.6
0 / 4	60	21	32	113	0.9
-5 / -1	30	9	11	50	-3.4
-10 / -6	18	4	7	29	-7.4
-15 / -11	7	1	1	9	-12.1
-20 / -16	1		0	1	-16.2

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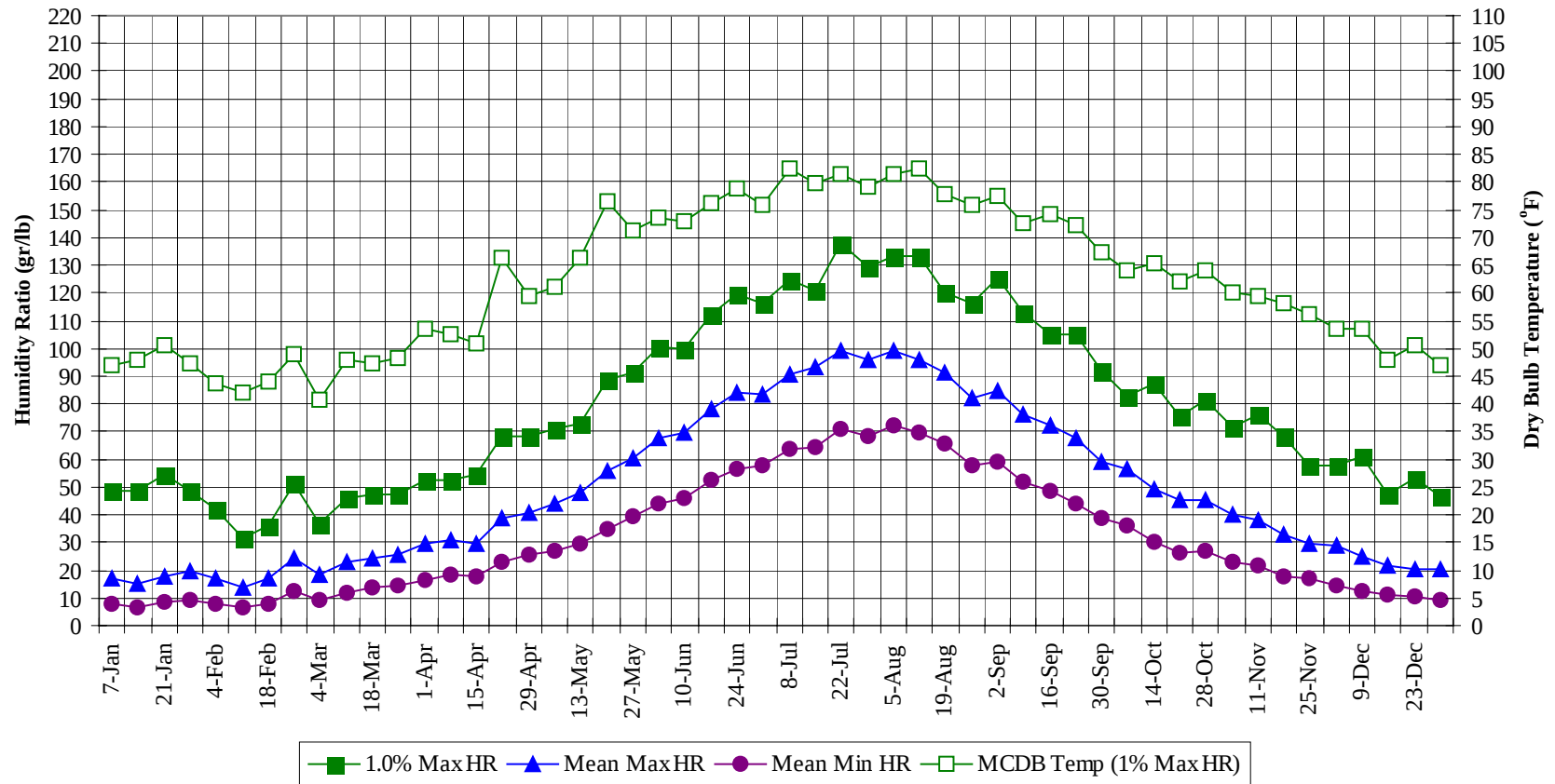
AUGUSTA ME

WMO No. 726185

Annual Summary of Temperatures

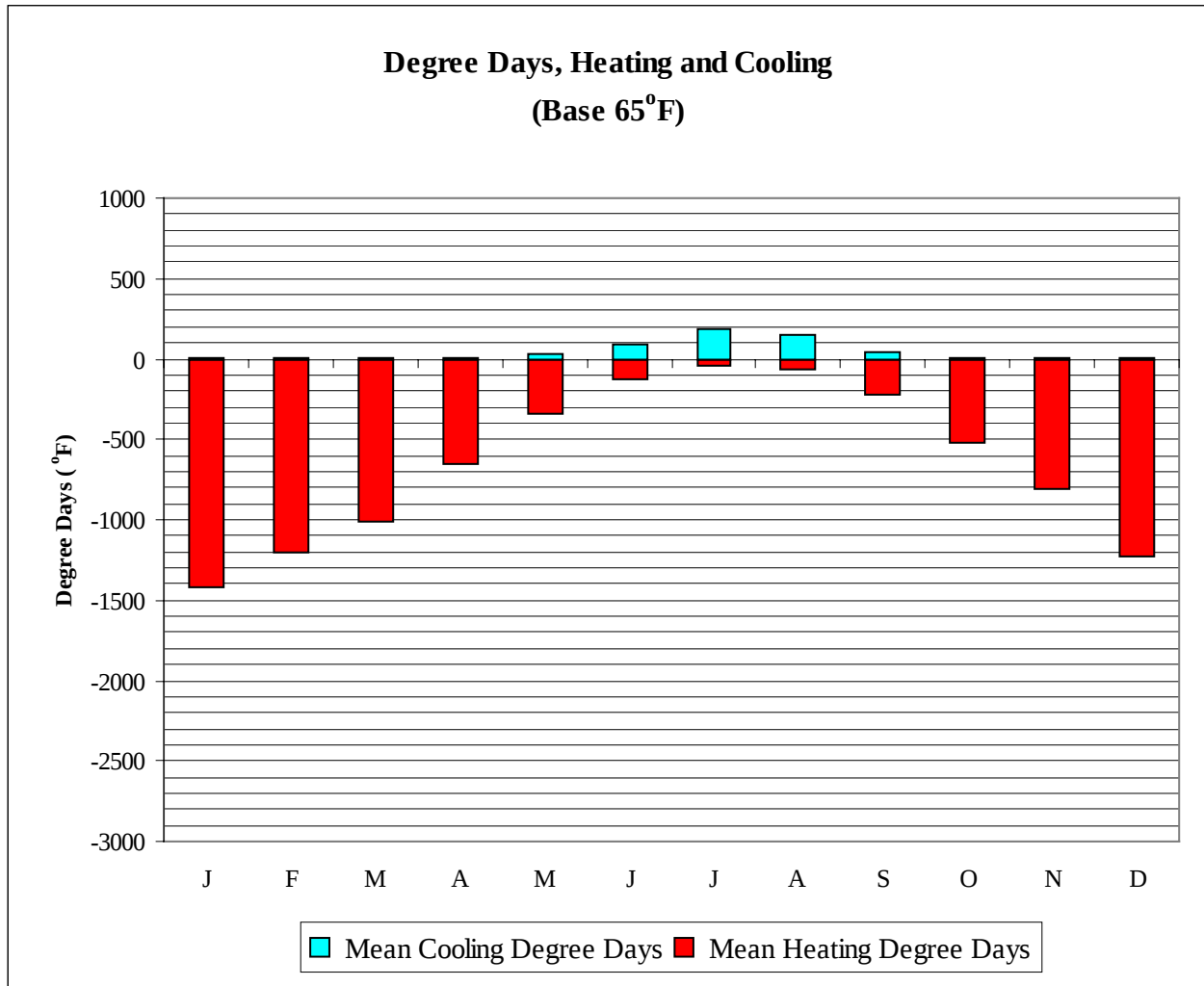


Long Term Humidity and Dry Bulb Temperature Summary



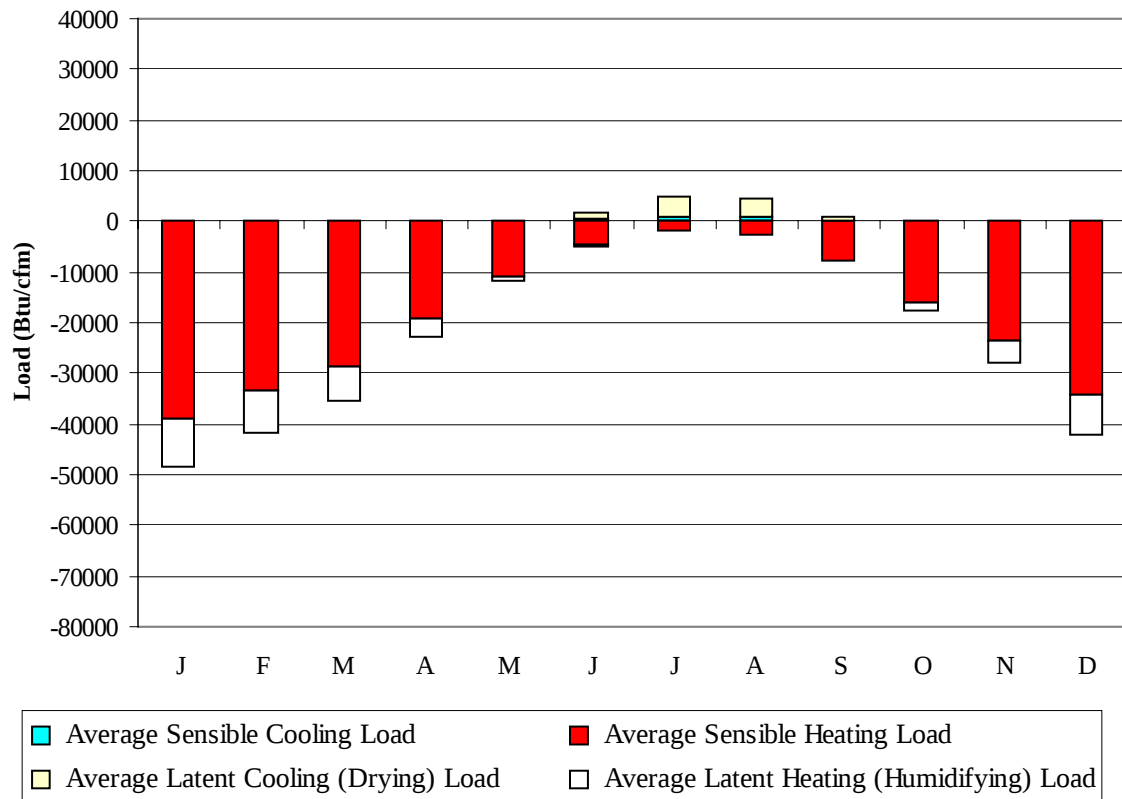
AUGUSTA ME**WMO No. 726185****Long Term Dry Bulb Temperature and Humidity Summary**

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	47.8	27.7	12.5	-7.0	48.3	47.0	16.8	8.2
14-Jan	48.0	47.5	24.3	8.3	-7.0	48.3	47.8	15.4	6.7
21-Jan	51.0	49.9	26.5	9.8	-12.0	54.6	50.5	17.6	8.4
28-Jan	48.0	46.8	30.7	13.3	-9.0	48.3	47.3	20.0	8.9
4-Feb	47.0	43.6	28.6	11.4	-7.0	42.0	43.6	17.1	7.8
11-Feb	43.0	37.6	26.5	9.1	-7.0	31.5	42.1	14.0	6.5
18-Feb	47.0	40.6	30.0	12.6	-8.0	36.4	43.9	17.3	8.2
25-Feb	51.0	48.6	36.7	21.0	3.0	51.1	49.1	24.2	12.7
4-Mar	47.0	41.4	33.1	16.8	-1.0	37.1	40.7	18.1	9.2
11-Mar	52.0	43.1	37.1	21.4	2.0	46.2	47.9	22.8	11.5
18-Mar	52.0	41.4	39.0	24.2	7.0	47.6	47.2	24.1	13.5
25-Mar	58.0	46.5	42.8	26.5	10.0	47.6	48.4	25.8	14.2
1-Apr	64.0	50.0	47.4	29.8	14.0	52.5	53.6	29.5	16.6
8-Apr	62.0	50.9	46.7	32.3	18.0	52.5	52.5	30.9	18.6
15-Apr	62.0	47.8	49.0	32.4	23.0	54.6	50.9	29.8	17.5
22-Apr	74.0	60.4	55.8	36.9	29.0	68.6	66.4	38.7	22.7
29-Apr	72.0	56.4	57.1	39.1	32.0	68.6	59.4	40.5	25.3
6-May	70.0	57.2	59.6	41.2	32.0	70.7	61.0	44.0	27.2
13-May	76.0	59.7	62.2	43.4	36.0	72.8	66.4	47.9	29.6
20-May	80.0	68.0	66.0	46.0	39.0	88.9	76.5	55.7	35.1
27-May	84.0	64.2	67.7	48.8	40.0	91.0	71.2	60.4	39.4
3-Jun	83.0	64.9	69.7	50.9	43.0	100.8	73.5	67.8	44.3
10-Jun	83.0	67.4	70.0	52.3	45.0	100.1	72.8	69.6	45.8
17-Jun	87.0	70.8	73.9	54.9	48.0	112.0	76.3	77.9	52.8
24-Jun	86.0	70.5	75.7	57.1	50.0	119.7	78.8	84.0	56.7
1-Jul	85.0	70.9	75.2	57.4	51.0	116.2	76.0	83.1	57.6
8-Jul	88.0	73.1	77.7	59.4	52.0	124.6	82.5	90.6	64.0
15-Jul	88.0	72.6	78.7	61.4	55.0	121.1	79.7	93.1	64.4
22-Jul	89.0	73.9	80.5	62.6	55.0	137.9	81.6	99.4	70.7
29-Jul	87.0	72.7	78.7	61.4	54.0	129.5	79.1	95.9	68.3
5-Aug	89.0	75.2	79.7	62.3	54.0	133.0	81.3	99.5	72.1
12-Aug	87.0	72.2	78.5	61.2	53.0	133.0	82.3	95.8	69.4
19-Aug	88.0	71.4	77.8	59.9	52.0	120.4	77.9	91.2	65.4
26-Aug	85.0	73.4	75.1	56.3	48.0	116.2	76.0	81.9	57.5
2-Sep	85.0	73.1	74.7	57.1	47.0	125.3	77.6	84.8	59.4
9-Sep	82.0	69.0	71.7	53.4	45.0	112.7	72.7	75.9	52.0
16-Sep	81.0	68.9	69.1	51.8	43.0	105.0	74.4	72.3	48.8
23-Sep	81.0	69.8	66.0	49.0	40.0	105.0	72.3	67.7	44.3
30-Sep	73.0	61.0	63.7	45.6	35.0	91.7	67.5	59.2	38.4
7-Oct	73.0	60.3	61.0	44.4	33.0	82.6	64.1	56.3	36.1
14-Oct	70.0	60.3	57.4	40.3	30.0	87.5	65.4	49.3	30.2
21-Oct	65.0	56.7	55.5	39.0	29.0	75.6	62.0	45.0	26.6
28-Oct	69.0	57.6	55.5	38.9	28.0	81.2	64.2	45.2	27.1
4-Nov	67.0	54.8	52.4	36.3	28.0	71.4	60.0	39.9	23.1
11-Nov	63.0	58.3	48.1	34.5	22.0	76.3	59.5	38.3	21.8
18-Nov	61.0	56.3	45.0	30.5	18.0	68.6	58.1	32.7	17.5
25-Nov	56.0	54.6	41.3	28.1	13.0	58.1	56.2	29.3	16.8
2-Dec	55.0	49.7	39.5	25.6	11.0	58.1	53.4	28.6	14.6
9-Dec	55.0	53.6	35.7	21.3	3.0	60.9	53.6	24.8	12.4
16-Dec	49.0	47.4	31.8	17.8	-2.0	47.6	47.8	21.6	11.3
23-Dec	50.0	48.1	30.7	15.9	-4.0	53.2	50.5	20.5	10.2
31-Dec	48.0	46.9	30.9	14.8	-7.0	46.9	46.9	20.5	9.4



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1416
FEB	0	1205
MAR	0	1016
APR	4	652
MAY	28	343
JUN	93	128
JUL	182	42
AUG	154	62
SEP	40	225
OCT	4	521
NOV	0	814
DEC	0	1231
ANN	505	7655

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	-39124	0	-9385
FEB	0	-33433	0	-8300
MAR	0	-28736	0	-6572
APR	7	-19192	0	-3375
MAY	108	-11024	115	-829
JUN	419	-4794	1197	-41
JUL	1022	-2004	3920	-1
AUG	780	-2696	3593	-7
SEP	120	-7731	731	-153
OCT	4	-15856	38	-1664
NOV	0	-23418	11	-4326
DEC	0	-34311	0	-7819
ANN	2460	-222319	9605	-42472

Average Annual Solar Radiation – Nearest Available Site

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

City: PORTLAND
 State: ME
 WBAN No: 14764
 Lat(N): 43.65
 Long(W): 70.32
 Elev(ft): 62

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.639
 Vert Gap: 0.33

AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day), Percentage Uncertainty = 11		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Global	590	880	1220	1490	1760	1930	1910	1700	1340	930	570	480	1230
	Std Dev	43	75	99	123	136	157	118	90	81	58	46	37	35
	Minimum	520	700	980	1290	1470	1630	1700	1530	1220	790	430	390	1180
	Maximum	690	1040	1420	1700	2080	2260	2120	1880	1520	1090	650	560	1320
	Diffuse	290	420	580	680	790	840	800	690	550	400	290	250	550
Clear Day	Global	760	1120	1640	2160	2520	2650	2560	2240	1760	1220	800	640	1670
NORTH	Global	180	260	350	430	540	620	580	470	360	260	180	150	370
	Diffuse	180	260	350	420	490	530	510	450	360	260	180	150	350
Clear Day	Global	160	230	310	410	580	690	630	460	330	240	160	140	360
EAST	Global	430	600	780	910	1010	1090	1070	1000	830	620	390	340	760
	Diffuse	230	330	440	510	580	620	610	540	440	320	220	190	420
Clear Day	Global	620	850	1130	1370	1500	1540	1500	1380	1160	880	620	530	1090
SOUTH	Global	1100	1240	1180	1000	900	850	890	1020	1140	1150	920	940	1030
	Diffuse	350	450	520	530	570	580	580	550	500	410	310	300	470
Clear Day	Global	1830	1980	1900	1540	1210	1050	1100	1360	1700	1880	1790	1720	1580
WEST	Global	430	610	770	880	1000	1080	1070	1000	840	610	390	340	750
	Diffuse	230	330	440	510	590	630	620	550	450	330	220	190	430
Clear Day	Global	620	850	1130	1370	1500	1540	1500	1380	1160	880	620	530	1090

Average Annual Solar Heat and Illumination – Nearest Available Site

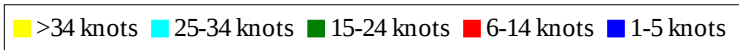
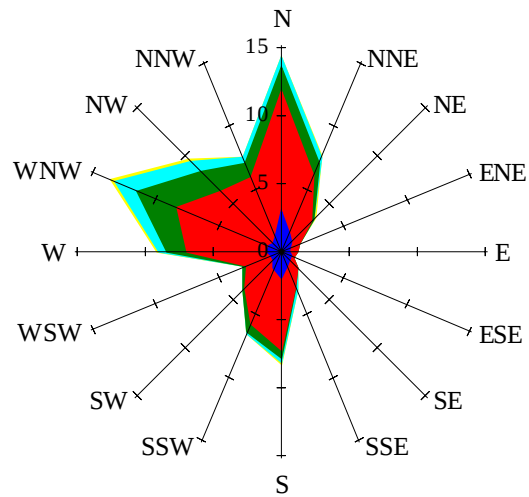
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 11		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	370	590	850	1060	1270	1400	1380	1220	950	630	370	290	870
NORTH	Unshaded	130	180	240	290	360	410	380	310	250	180	120	110	250
	Shaded	110	150	210	250	310	350	330	270	220	160	110	90	210
EAST	Unshaded	290	420	560	650	720	770	760	710	590	440	270	230	540
	Shaded	260	360	470	540	590	630	620	580	500	370	240	200	450
SOUTH	Unshaded	830	910	830	670	570	530	560	660	790	830	690	710	710
	Shaded	810	840	630	400	340	350	340	370	530	720	660	690	560
WEST	Unshaded	290	420	540	630	710	770	760	720	600	430	270	230	530
	Shaded	260	370	460	520	580	620	620	590	500	370	230	200	440

AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 11											
		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	44	72	76	55	18	56	87	99	90	62
	M.Cloudy	27	46	48	36	12	35	56	69	63	41
NORTH	M.Clear	10	14	14	12	6	13	16	16	16	14
	M.Cloudy	11	16	17	13	5	13	17	19	19	14
EAST	M.Clear	75	49	14	12	6	83	66	21	16	14
	M.Cloudy	29	28	17	13	5	36	39	22	19	14
SOUTH	M.Clear	50	82	87	63	20	13	41	53	44	19
	M.Cloudy	22	40	43	30	9	13	28	39	33	16
WEST	M.Clear	10	14	32	71	55	12	16	16	58	81
	M.Cloudy	11	16	23	33	18	13	17	19	40	43
M.Clear	(% hrs)	36	34	31	30	32	36	32	29	28	29
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	34	67	79	69	38	15	36	37	18	0
	M.Cloudy	20	41	53	47	24	9	23	23	12	0
NORTH	M.Clear	9	14	15	14	10	5	9	9	6	0
	M.Cloudy	8	14	17	15	9	4	9	9	5	0
EAST	M.Clear	71	63	18	14	10	38	30	9	6	0
	M.Cloudy	25	33	18	15	9	12	15	9	5	0
SOUTH	M.Clear	29	65	79	67	33	41	81	83	47	0
	M.Cloudy	14	33	46	39	17	12	30	31	15	0
WEST	M.Clear	9	14	15	58	72	5	9	27	41	0
	M.Cloudy	8	14	17	35	30	4	9	14	14	0
M.Clear	(% hrs)	42	41	38	37	40	35	36	34	34	36

Wind Summary - December, January, and February

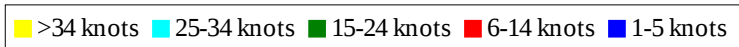
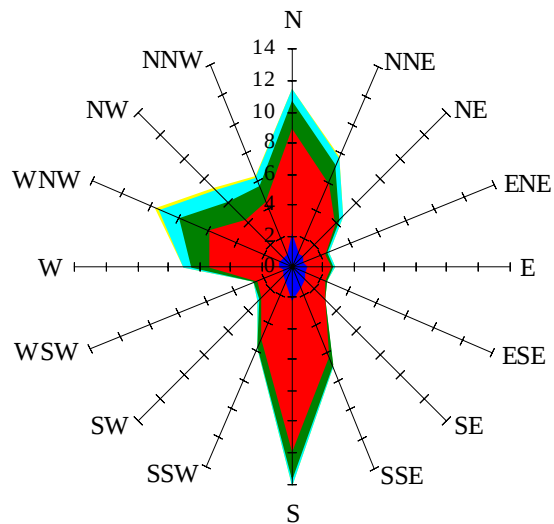
Labels of Percent Frequency on North Axis



Percent Calm = 5.73

Wind Summary - March, April, and May

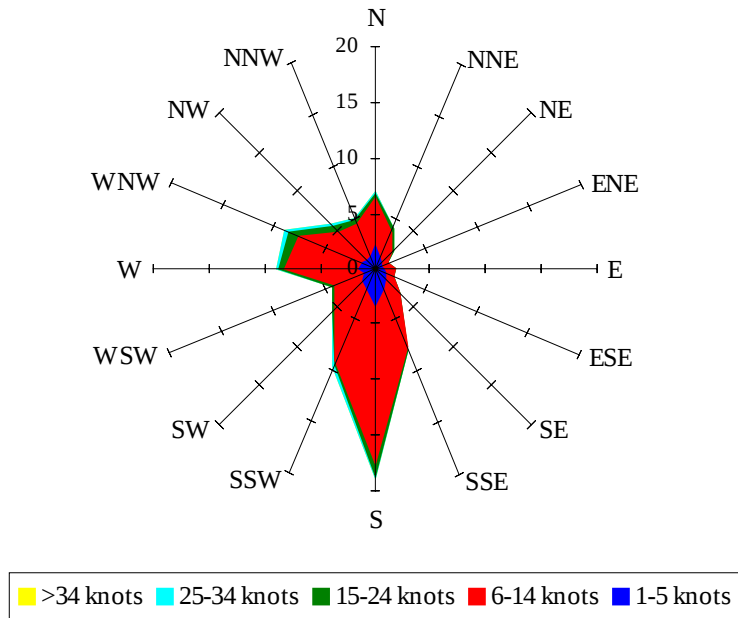
Labels of Percent Frequency on North Axis



Percent Calm = 4.24

Wind Summary - June, July, and August

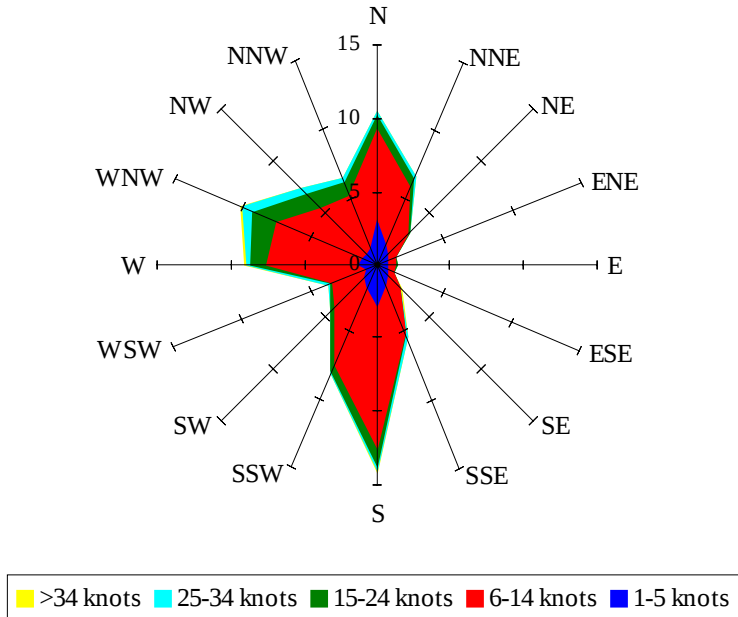
Labels of Percent Frequency on North Axis



Percent Calm = 5.13

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 5.49