

PORTLAND INTL JETPORT, ME

Latitude = 43.65 N

Longitude = 70.31 W

Period of Record = 1988 To 2017

Station ID = ICAO_KPWM

Elevation = 77 Feet

Average Pressure = 29.92 inches Hg

Design Criteria Data

Dry Bulb Temperature (T)	Mean Coincident (Average) Values				
	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	93	75	103	12.7	WSW
0.4% Occurrence	87	72	92	10.4	W
1.0% Occurrence	83	70	88	9.9	S
2.0% Occurrence	81	69	85	9.6	S
Mean Daily Range	17	-	-	-	W
97.5% Occurrence	10	8	5	7.9	W
99.0% Occurrence	5	4	4	7.6	W
99.6% Occurrence	0	-1	3	6.8	W
Median of Extreme Lows	-10	-11	2	5.6	W

Wet Bulb Temperature (T _{wb})	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	77	88	120	10.1	S
0.4% Occurrence	74	83	111	8.8	S
1.0% Occurrence	72	80	105	8.4	S
2.0% Occurrence	70	76	98	7.8	S

Humidity Ratio (HR)	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	124	83	0.82	8.5	S
0.4% Occurrence	116	79	0.76	8.4	S
1.0% Occurrence	111	77	0.74	7.2	S
2.0% Occurrence	103	75	0.69	6.8	S

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	7	214	82	570

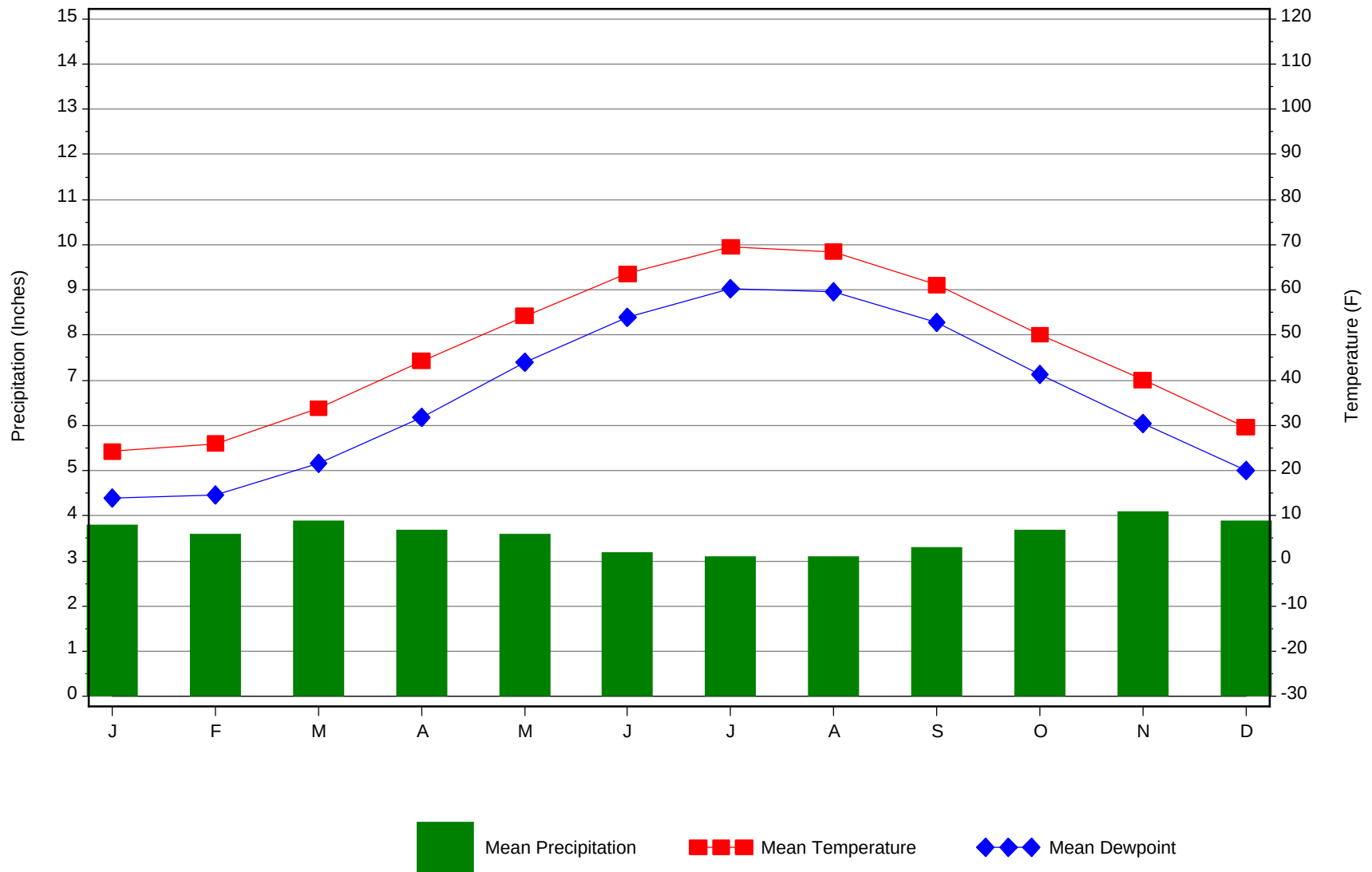
Other Site Data

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	110	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 (#)
49.7	86	60	75

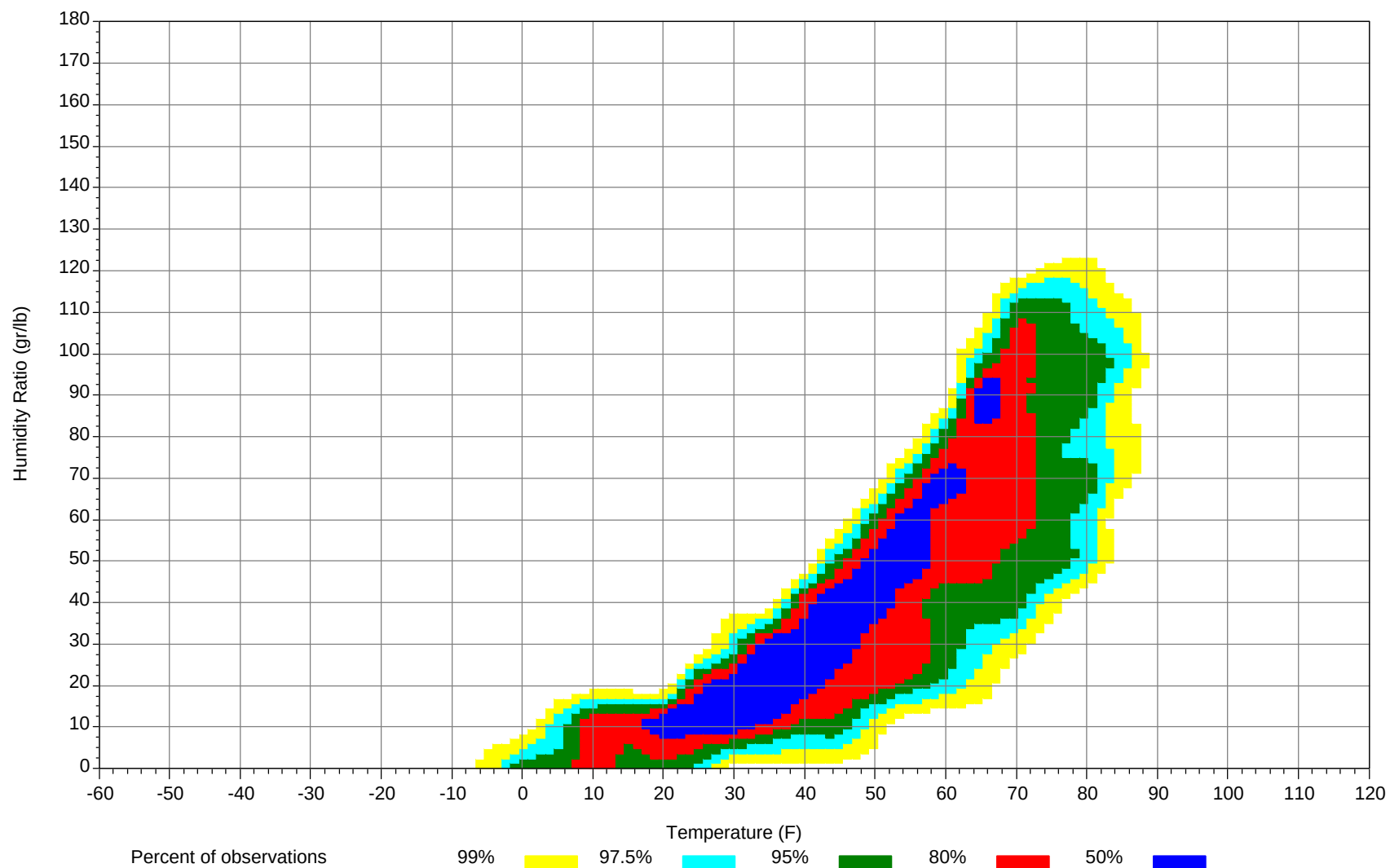
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



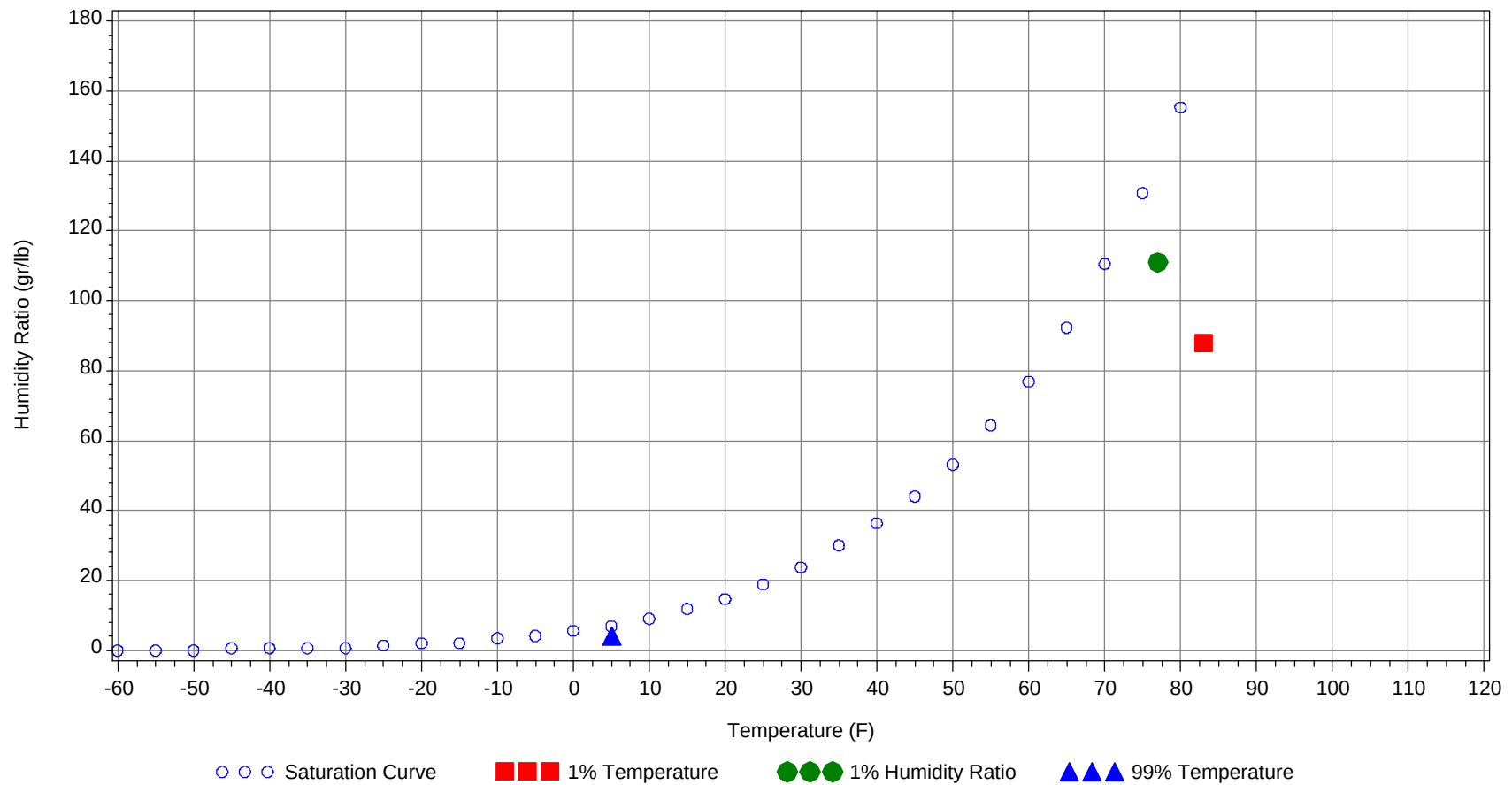
Average Annual Climate



Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values



	(° F) / (gr/lb)	MCDB (° F)	MCWB (° F)	MCDP (° F)	MCHR (gr/lb)	Enthalpy (btu/lb)
1.0% Dry Bulb	83.0		70		88.0	33.4
99.0% Dry Bulb	5.0				4.0	1.8
1.0% Humidity Ratio	111.0	77.0	71.9	70.0		35.7

Dry-Bulb Temperature Hours For An Average Year

	January					February					March				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104															
95/ 99															
90/ 94															
85/ 89												0		0	65.3
80/ 84												0		0	64
75/ 79												0	0	0	61.6
70/ 74												1	0	1	57.8
65/ 69		0		0	61						0	1	0	1	55.4
60/ 64		0	0	0	54.7		0		0	47.9	1	3	1	5	51.2
55/ 59		1	0	1	51.1	0	1	0	1	47.5	1	6	1	8	47.2
50/ 54	1	3	1	5	47.7	0	3	1	4	44.8	1	13	6	20	44.2
45/ 49	4	9	6	19	43	2	12	6	20	41.2	8	35	17	60	40.5
40/ 44	6	16	8	30	37.8	6	17	10	33	37.5	17	38	27	82	37.3
35/ 39	17	35	27	79	33.6	19	40	34	93	33.3	47	66	72	185	33.4
30/ 34	37	46	46	129	29.1	33	46	45	124	28.8	64	43	59	166	28.8
25/ 29	41	47	50	138	24	35	38	46	119	23.4	47	24	35	106	23.5
20/ 24	28	28	28	84	19.3	28	25	26	79	19	22	11	14	47	18.8
15/ 19	36	30	34	100	15	41	24	29	94	15	21	5	10	36	14.8
10/ 14	28	17	23	68	10	25	11	16	52	9.9	12	2	3	17	9.9
5/ 9	21	8	14	43	5.5	18	4	7	29	5.5	6	1	1	8	5.4
0/ 4	17	5	7	29	0.6	11	2	3	16	0.7	3	0	1	4	0.8
-5/ -1	6	1	2	9	-3.8	3	0	1	4	-3.6	1			1	-3.7
-10/ -6	5	1	1	7	-7.8	2	0	0	2	-8	0			0	-7
-15/-11	1		0	1	-11.9	1			1	-11.8					
-20/-16	0			0	-15.8	0			0	-17					

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.

Dry-Bulb Temperature Hours For An Average Year

	April					May					June				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104															
95/ 99												0	0	0	71.4
90/ 94							1	0	1	67.8		3	0	3	73
85/ 89		0		0	62.5		2	0	2	65.8	0	8	1	9	70.6
80/ 84		1	0	1	62.3	0	5	1	6	64.7	1	21	5	27	67.7
75/ 79	0	2	0	2	59.9	1	10	3	14	62.6	5	37	12	54	65.3
70/ 74	0	3	1	4	55.8	3	20	7	30	59.6	15	55	29	99	62.7
65/ 69	0	6	1	7	52.4	5	24	9	38	56.4	25	40	36	101	60.4
60/ 64	1	16	6	23	50.1	14	53	25	92	53.8	62	40	65	167	58.1
55/ 59	5	30	12	47	47.4	30	55	45	130	50.9	68	25	57	150	54.2
50/ 54	14	55	29	98	44.4	65	48	74	187	48.3	47	10	28	85	50.4
45/ 49	40	64	61	165	41.5	82	27	67	176	44.5	15	1	6	22	45.6
40/ 44	51	36	56	143	38.3	31	3	14	48	40.2	2	0	0	2	41.3
35/ 39	65	19	51	135	34.2	14	0	3	17	35.5	0	0		0	37.1
30/ 34	44	6	19	69	29.4	3		0	3	31.2					
25/ 29	17	1	3	21	24.7	0			0	28					
20/ 24	2	0	1	3	18.7										
15/ 19	1	0		1	14.3										
10/ 14															
5/ 9															
0/ 4															
-5/ -1															
-10/ -6															
-15/-11															
-20/-16															

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Dry-Bulb Temperature Hours For An Average Year

	July					August					September				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104		0		0	74										
95/ 99		1	0	1	75.8		0		0	76					
90/ 94	0	6	1	7	74.4		4	0	4	73.8		1	0	1	73.6
85/ 89	0	14	2	16	71.8	0	10	1	11	72.3		2	0	2	72
80/ 84	3	46	11	60	69.6	1	41	7	49	69.8	0	10	1	11	68.7
75/ 79	11	70	27	108	67	6	68	22	96	66.9	1	23	4	28	66.3
70/ 74	42	64	65	171	65.3	35	79	63	177	65.1	9	54	19	82	63.8
65/ 69	56	28	63	147	63.2	59	30	68	157	63.2	21	47	32	100	61.3
60/ 64	89	16	63	168	60.1	86	15	65	166	59.9	57	65	71	193	58.2
55/ 59	38	3	14	55	55.3	41	1	18	60	54.7	58	29	61	148	53.7
50/ 54	9	0	1	10	50.7	17	0	3	20	50.6	45	7	33	85	49.4
45/ 49	0			0	46.3	3		0	3	46.4	31	1	14	46	44.5
40/ 44						0			0	43	12	0	3	15	40.3
35/ 39											5		1	6	36.3
30/ 34											1		0	1	31.8
25/ 29															
20/ 24															
15/ 19															
10/ 14															
5/ 9															
0/ 4															
-5/ -1															
-10/ -6															
-15/-11															
-20/-16															

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Dry-Bulb Temperature Hours For An Average Year

	October					November					December				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104															
95/ 99															
90/ 94															
85/ 89															
80/ 84		1		1	65.4										
75/ 79		3	0	3	63.5										
70/ 74	0	10	2	12	60.8		1	0	1	60		0		0	57
65/ 69	1	15	4	20	58.9		1	1	2	57.3		0		0	56.9
60/ 64	11	43	18	72	56.3	1	8	2	11	54.3	0	1	0	1	52.5
55/ 59	28	61	43	132	52.3	7	20	9	36	52.1	0	2	1	3	50.2
50/ 54	46	60	60	166	48	18	37	25	80	47.8	3	9	4	16	47.2
45/ 49	51	39	57	147	42.6	28	56	43	127	42.4	8	23	13	44	43
40/ 44	38	11	29	78	38.9	29	43	36	108	37.8	13	24	16	53	38.4
35/ 39	43	4	26	73	34.8	45	43	51	139	33.5	31	54	45	130	33.8
30/ 34	22	0	7	29	30.4	52	22	44	118	29	49	49	50	148	29.2
25/ 29	7		1	8	26.3	39	8	23	70	24.4	44	39	52	135	23.9
20/ 24	0			0	21.9	11	2	6	19	19.7	29	22	25	76	19.4
15/ 19						8	0	2	10	16.1	33	16	24	73	15.3
10/ 14						1	0	0	1	11.4	18	6	12	36	10.3
5/ 9						0			0	6	11	2	6	19	5.8
0/ 4						0			0	3.5	5	1	1	7	1
-5/ -1											2	0	0	2	-3.1
-10/ -6											1	0		1	-6.9
-15/-11											0			0	-11.5
-20/-16															

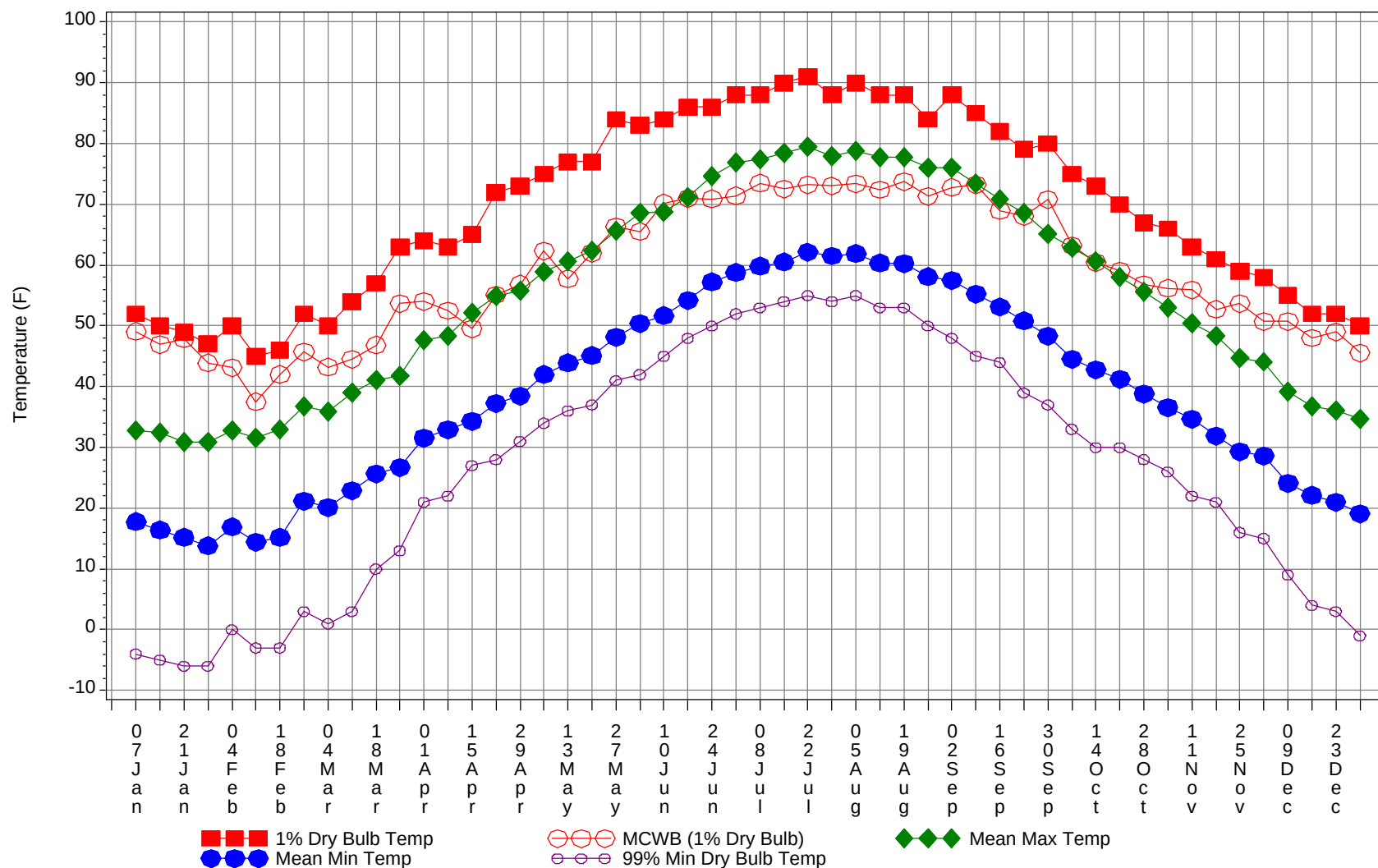
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

Dry-Bulb Temperature Hours For An Average Year

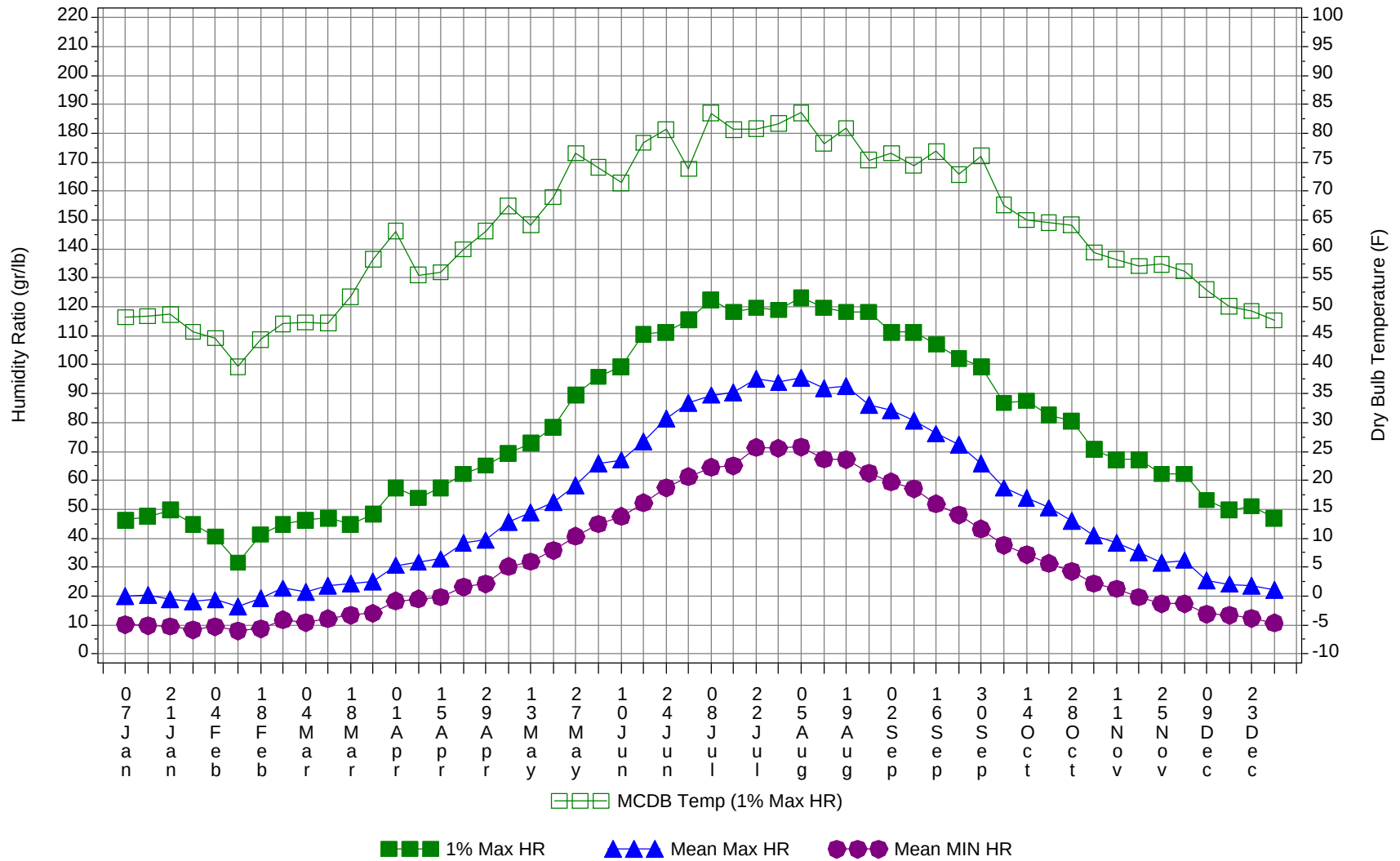
	Annual				
Temperature Range (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)
100/104		0		0	74
95/ 99		1	0	1	75
90/ 94	0	15	2	17	73.5
85/ 89	0	36	5	41	71.4
80/ 84	4	125	25	154	69
75/ 79	23	213	69	305	66.3
70/ 74	103	287	186	576	64.1
65/ 69	167	193	214	574	61.6
60/ 64	323	260	316	899	57.9
55/ 59	277	233	260	770	52.8
50/ 54	266	244	265	775	48
45/ 49	273	268	289	830	42.8
40/ 44	205	187	201	593	38.3
35/ 39	288	261	309	858	33.8
30/ 34	305	213	271	789	29.1
25/ 29	230	158	210	598	23.9
20/ 24	120	88	101	309	19.2
15/ 19	140	76	99	315	15.1
10/ 14	84	36	54	174	10
5/ 9	56	16	28	100	5.6
0/ 4	35	7	11	53	0.7
-5/ -1	11	2	3	16	-3.6
-10/ -6	8	1	1	10	-7.8
-15/-11	2		0	2	-11.8
-20/-16	0			0	-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.

Annual Summary of Temperatures



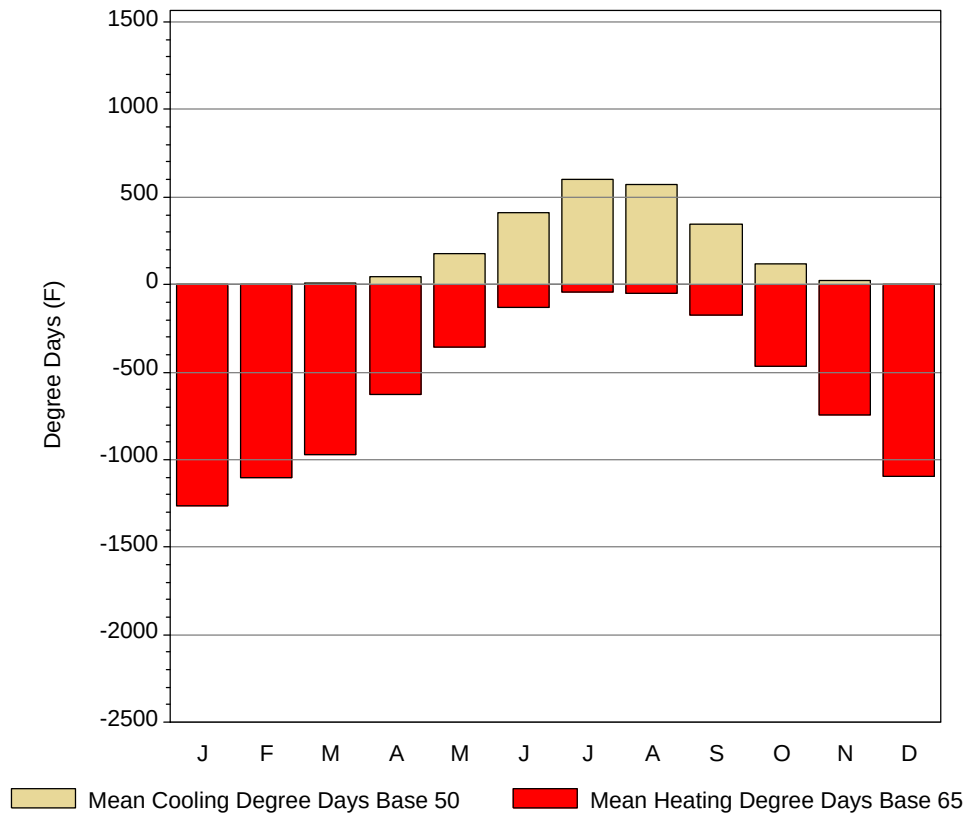
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

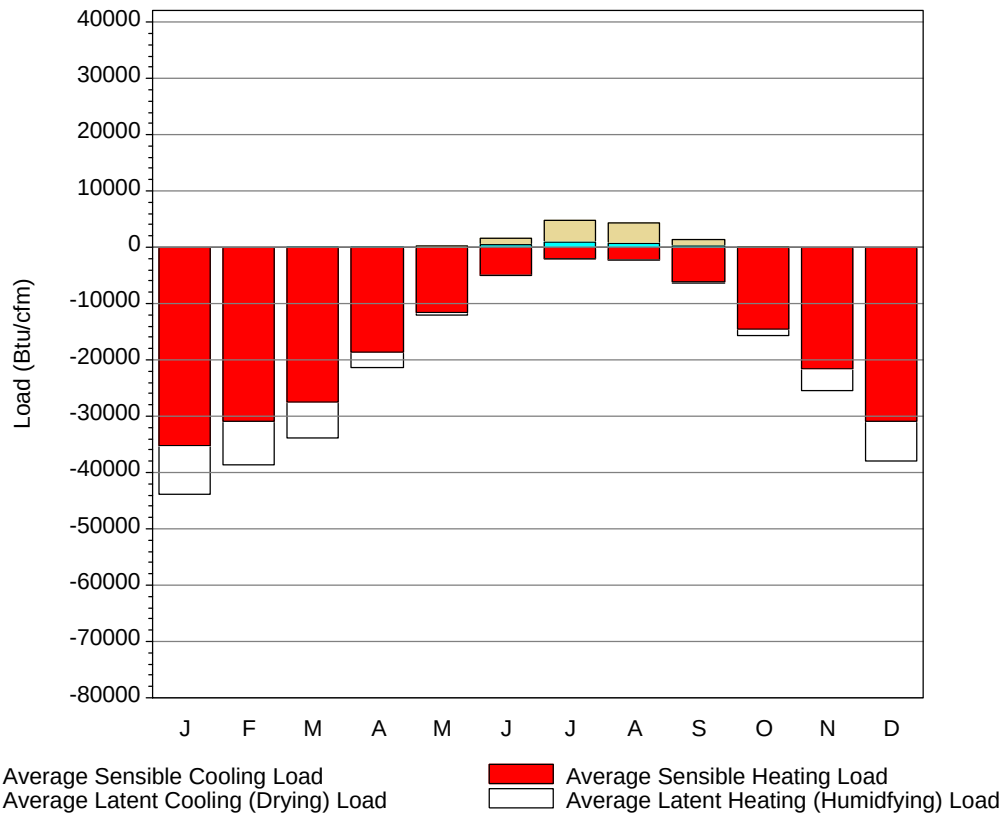
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	52	49.1	32.7	17.8	-4	46.2	48.2	20.1	10.1
14-Jan	50	46.9	32.4	16.4	-5	47.6	48.4	20.3	9.8
21-Jan	49	47.9	30.9	15.2	-6	49.7	48.7	18.9	9.5
28-Jan	47	43.9	30.8	13.8	-6	44.8	45.7	18.1	8.3
4-Feb	50	43.1	32.8	16.9	0	40.6	44.6	18.7	9.4
11-Feb	45	37.5	31.5	14.4	-3	31.5	39.7	16.4	7.9
18-Feb	46	42	33	15.2	-3	41.3	44.4	19.2	8.7
25-Feb	52	45.7	36.8	21.1	3	44.8	47.1	22.7	11.8
4-Mar	50	43.2	35.9	20.1	1	46.2	47.3	21.3	10.9
11-Mar	54	44.5	39	22.9	3	46.9	47.2	23.6	12.1
18-Mar	57	46.8	41	25.6	10	44.8	51.8	24.4	13.3
25-Mar	63	53.7	41.8	26.7	13	48.3	58.2	24.9	14
1-Apr	64	54	47.7	31.5	21	57.4	63.1	30.6	18.2
8-Apr	63	52.5	48.3	32.9	22	53.9	55.5	31.7	19
15-Apr	65	49.5	52.2	34.3	27	57.4	56	32.8	19.6
22-Apr	72	55.1	54.9	37.2	28	62.3	60	38.4	23.2
29-Apr	73	56.9	55.7	38.4	31	65.1	63.1	39.3	24.2
6-May	75	62.3	58.9	42	34	69.3	67.5	45.7	30.2
13-May	77	57.7	60.7	43.9	36	72.8	64.2	48.9	31.9
20-May	77	62	62.3	45.1	37	78.4	69	52.6	35.8
27-May	84	66.3	65.7	48.1	41	89.6	76.6	58.2	40.7
4-Jun	83	65.5	68.6	50.4	42	95.9	74.1	66	44.9
10-Jun	84	70.2	68.8	51.7	45	99.4	71.5	67.1	47.5
17-Jun	86	71	71.2	54.2	48	110.6	78.4	73.5	52.2
24-Jun	86	70.9	74.7	57.2	50	111.3	80.7	81.4	57.4
1-Jul	88	71.4	76.9	58.8	52	115.5	73.9	86.9	61.3
8-Jul	88	73.5	77.4	59.8	53	122.5	83.5	89.5	64.5
15-Jul	90	72.5	78.5	60.5	54	118.3	80.7	90.3	65.1
22-Jul	91	73.2	79.4	62.1	55	119.7	80.8	95.2	71.4
29-Jul	88	73	77.9	61.5	54	119	81.7	93.9	71.1
5-Aug	90	73.4	78.8	61.9	55	123.2	83.6	95.6	71.5
12-Aug	88	72.4	77.7	60.3	53	119.7	78.3	91.9	67.3
19-Aug	88	73.7	77.7	60.2	53	118.3	80.9	92.7	67.2
26-Aug	84	71.3	76.1	58.1	50	118.3	75.4	86.1	62.5
2-Sep	88	72.8	76.1	57.5	48	111.3	76.6	84.1	59.5
9-Sep	85	73.2	73.4	55.2	45	111.3	74.5	80.6	57.1
16-Sep	82	69	70.8	53.1	44	107.1	76.9	76.2	51.9
23-Sep	79	68	68.5	50.8	39	102.2	72.9	72.4	48.1
30-Sep	80	70.8	65.2	48.3	37	99.4	76.1	65.9	43.2
7-Oct	75	63.2	62.9	44.5	33	86.8	67.6	57.4	37.6
14-Oct	73	60.4	60.6	42.8	30	87.5	65	54	34.4
21-Oct	70	59	58	41.2	30	82.6	64.6	50.5	31.3
28-Oct	67	56.8	55.6	38.8	28	80.5	64.2	45.9	28.6
4-Nov	66	56.2	53	36.5	26	70.7	59.4	41	24.3
11-Nov	63	55.9	50.4	34.6	22	67.2	58.2	38.5	22.5
18-Nov	61	52.7	48.3	31.9	21	67.2	57.1	35.2	19.6
25-Nov	59	53.7	44.7	29.3	16	62.3	57.4	31.4	17.3
2-Dec	58	50.7	44.1	28.6	15	62.3	56.2	32.4	17.3
9-Dec	55	50.7	39.1	24.1	9	53.2	53	25.3	13.7
16-Dec	52	48	36.8	22.1	4	49.7	50.1	24.1	13.3
23-Dec	52	49	36.1	21	3	51.1	49.3	23.6	12.3
31-Dec	50	45.5	34.6	19.1	-1	46.9	47.7	22.2	10.7

Degree Days, Heating and Cooling (Base 65 F) & Cooling (Base 50F)



Month	Mean Cooling Degree Days (°F) Base 50	Mean Cooling Degree Days (°F) Base 65	Mean Heating Degree Days (°F) Base 65
JAN	0.7	0	1266
FEB	0.7	0	1103.4
MAR	8.6	0.8	968.3
APR	44.6	3.5	625.4
MAY	179.1	24.6	359
JUN	412.2	91.2	132.3
JUL	603.2	178	39.9
AUG	574.7	157.7	48.3
SEP	346.2	54.4	172.8
OCT	116.9	6.8	468.4
NOV	23.5	0.3	746.2
DEC	2.5	0	1098.1
ANN	2312.9	517.3	7028.1

Average Ventilation and Infiltration Loads (Outside Air vs 75F, 60% RH summer; 68F, 30% RH winter)



Month	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	-35225	0	-8701
FEB	0	-30797	0	-7820
MAR	3	-27502	0	-6307
APR	12	-18506	0	-2949
MAY	114	-11478	86	-457
JUN	465	-4952	1199	-16
JUL	1003	-1986	3816	-1
AUG	770	-2270	3678	-2
SEP	186	-6227	1190	-75
OCT	12	-14466	68	-1088
NOV	0	-21670	0	-3734
DEC	0	-30873	0	-6974
ANN	2565	-205952	10037	-38124

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	PORTLAND, ME 14764	Window:	1.000
Lat, Lon, Elev	43.65N 70.32W 62ft	Overhang:	0.639
Press, Stn_Type	14.7psia Secondary	Vert Gap:	0.330

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

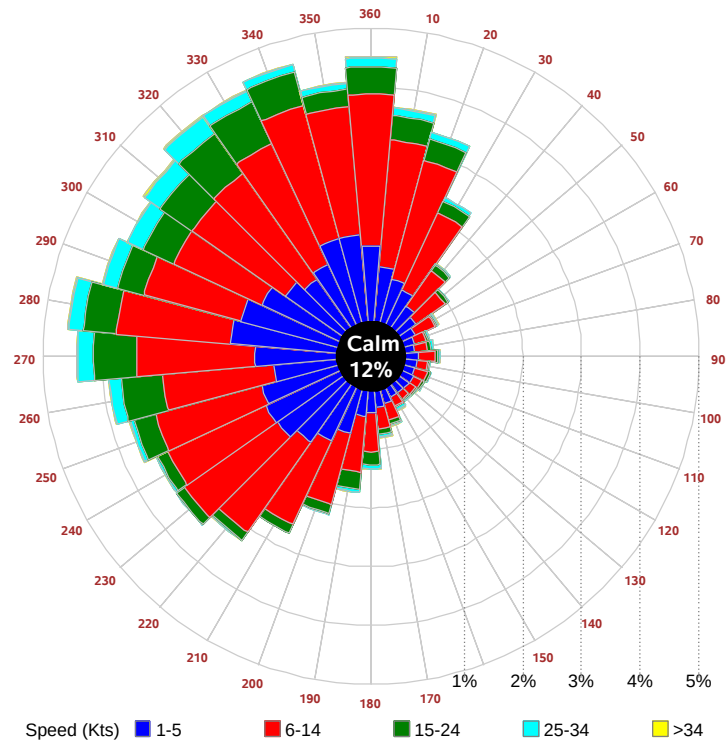
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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

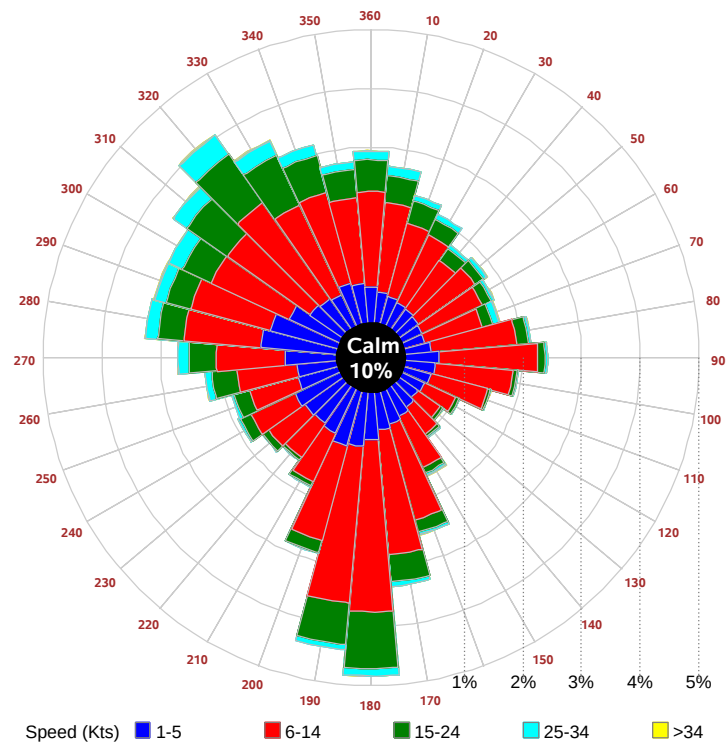
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 11												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	44	72	76	55	18	56	87	99	90	62	
	M.Cloudy	27	46	48	36	12	35	56	69	63	41	
NORTH	M.Clear	10	14	14	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	

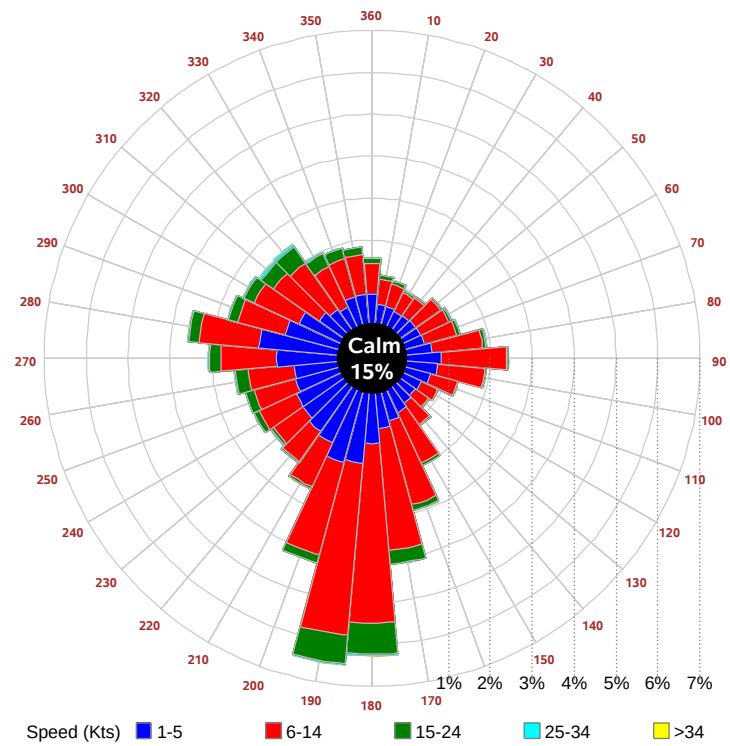
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

