

PROVIDENCE/GREEN RI

Latitude = 41.73 N

WMO No. 725070

Longitude = 71.43 W

Elevation = 62 feet

Period of Record = 1973 to 1995

Average Pressure = 29.92 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	76	101	14.3	W
0.4% Occurrence	90	74	100	12.6	W
1.0% Occurrence	87	72	94	12.2	W
2.0% Occurrence	84	70	91	11.8	SW
Mean Daily Range	17	-	-	-	-
97.5% Occurrence	16	14	7	10.4	WNW
99.0% Occurrence	10	8	5	11.0	WNW
99.6% Occurrence	5	3	3	10.9	NW
Median of Extreme Lows	-1	-2	2	12.0	NW
	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	91	133	12.6	WSW
0.4% Occurrence	76	84	120	11.4	SW
1.0% Occurrence	75	82	117	11.2	SW
2.0% Occurrence	73	79	111	10.4	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	139	85	0.91	10.8	S
0.4% Occurrence	127	81	0.85	10.1	SW
1.0% Occurrence	122	78	0.82	9.7	S
2.0% Occurrence	115	77	0.77	9.5	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		14	405	245	995

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	2.7	120	1.5 + 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 (#)
53.6	41	23	65

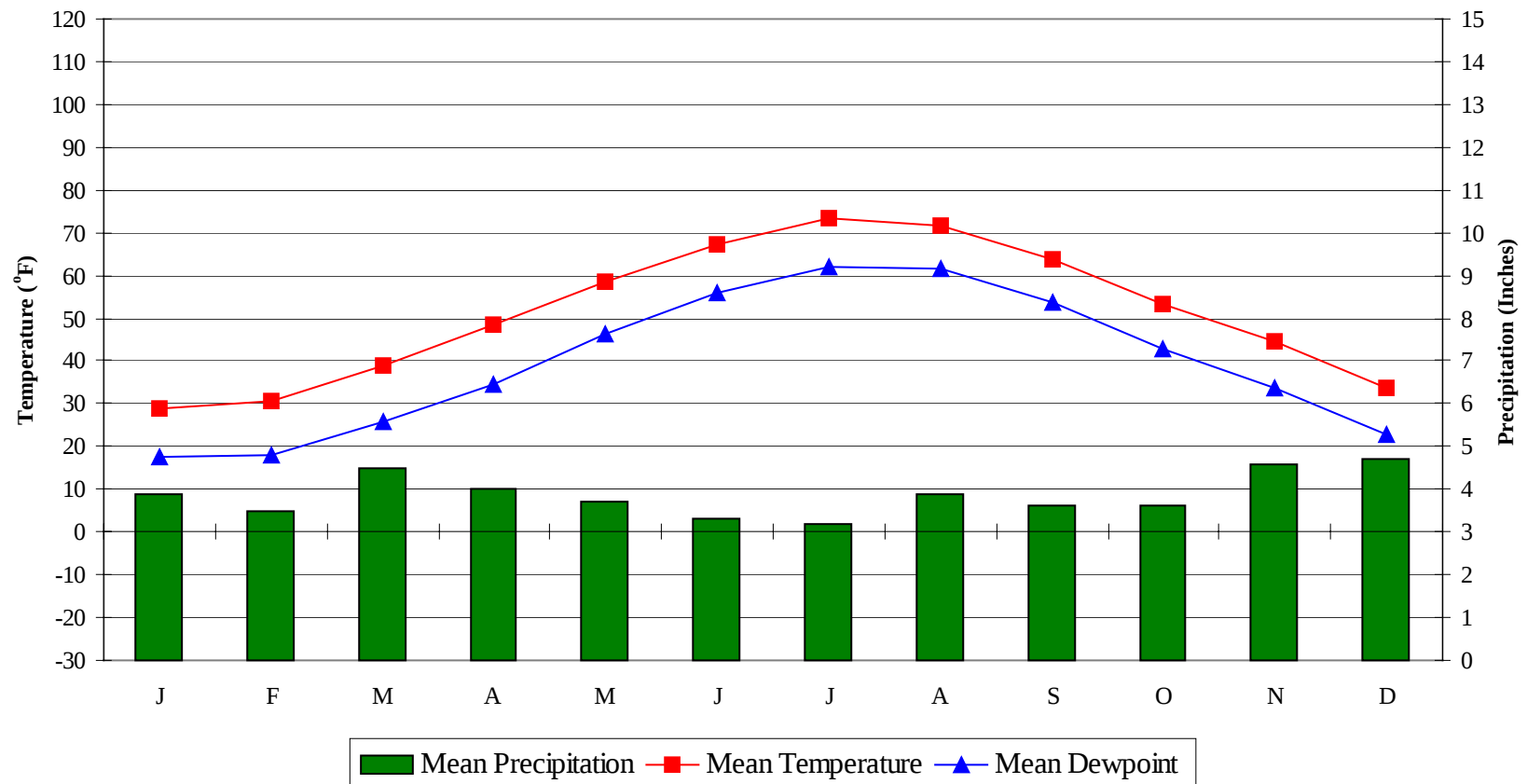
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

PROVIDENCE/GREEN

RI

WMO No. 725070

Average Annual Climate

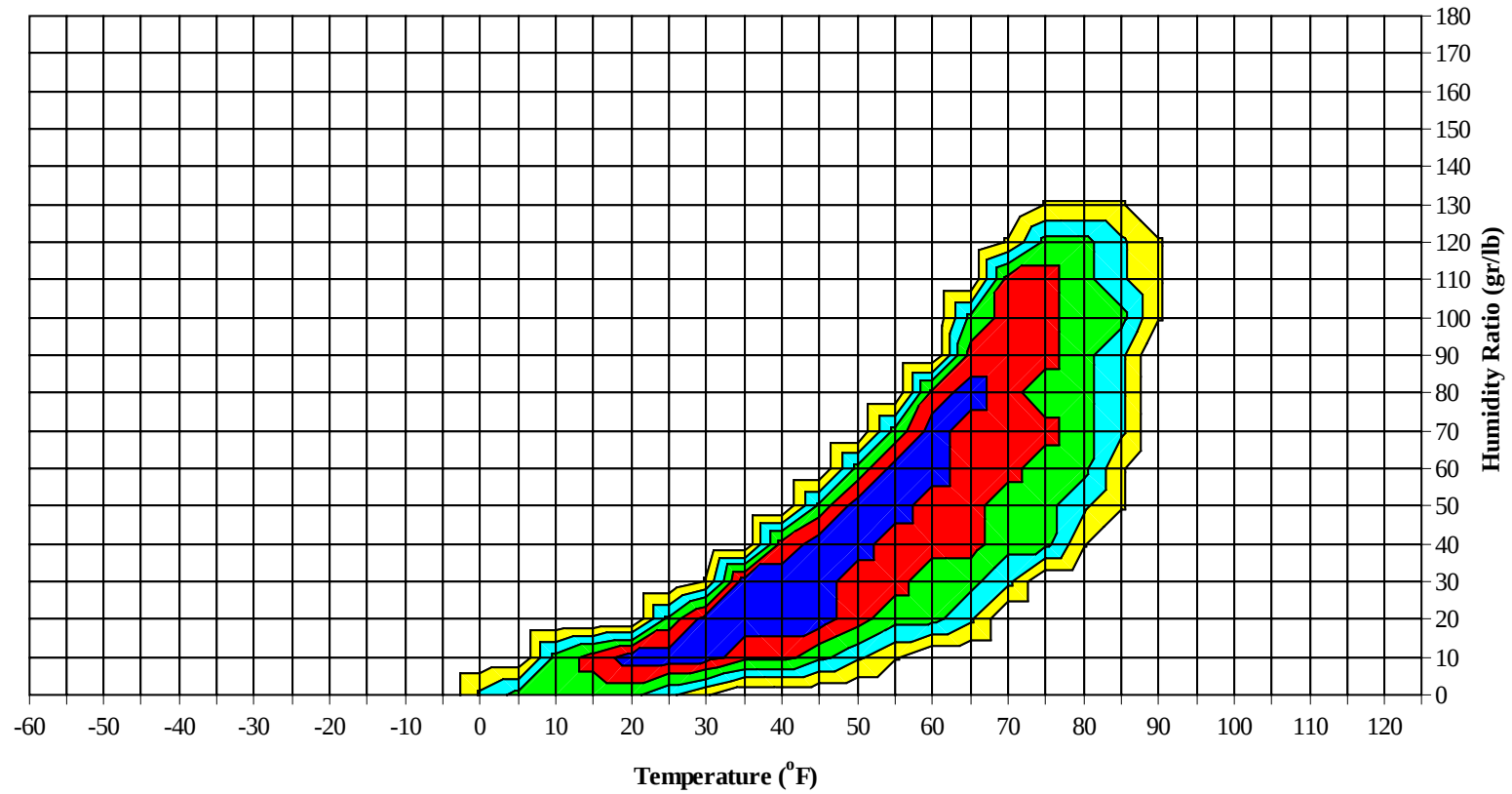


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WMO No. 725070

Long Term Psychrometric Summary



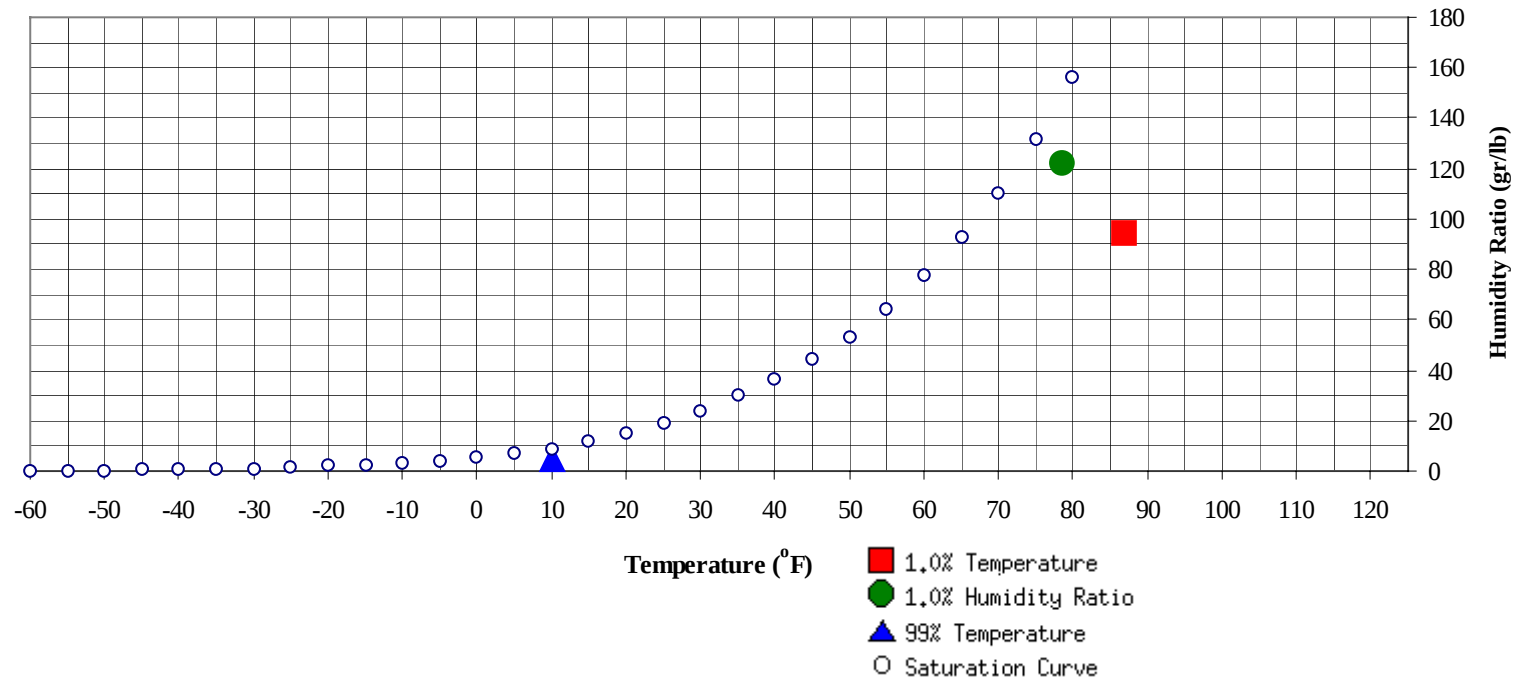
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

PROVIDENCE/GREEN

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WMO No. 725070

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	4.8	3.1		121.8	78.5	74.5	73	37.9

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	87	94.1	72	35.7

PROVIDENCE/GREEN RI

WMO No. 725070

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

Period of Record = 1973 to 1995

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															
75 / 79												1		1	58.6
70 / 74							0		0	56.0		1	0	1	56.4
65 / 69		0		0	58.9		1		1	52.2	0	4	1	5	54.2
60 / 64	0	1	0	1	55.2	0	2	0	2	49.7	1	9	2	12	51.8
55 / 59	2	5	2	9	53.4	1	5	2	8	51.0	2	14	6	22	49.6
50 / 54	3	7	5	15	48.3	5	11	4	20	46.5	9	32	15	56	45.5
45 / 49	6	16	10	32	42.8	7	19	11	37	42.0	19	47	34	100	41.6
40 / 44	12	30	22	64	38.0	13	29	24	66	37.4	38	51	53	142	37.4
35 / 39	30	43	37	109	33.4	25	43	38	106	32.8	53	45	59	157	33.1
30 / 34	42	48	46	135	28.6	42	43	48	133	28.4	57	26	46	129	28.4
25 / 29	40	37	46	122	23.8	36	30	38	104	23.5	33	11	20	64	23.6
20 / 24	36	28	34	98	19.1	34	22	28	84	18.8	21	4	10	35	18.8
15 / 19	31	17	22	70	14.6	29	11	18	58	14.5	11	1	3	15	14.4
10 / 14	22	9	13	44	10.0	21	5	7	33	10.0	4	0	0	4	10.1
5 / 9	15	4	8	27	5.4	7	2	3	12	5.5	1		0	1	4.7
0 / 4	7	2	3	12	0.8	3	1	1	5	0.8	0			0	2.0
-5 / -1	2	0	0	2	-3.2	1	0	0	1	-3.7					
-10 / -6	1	0	1	2	-7.8	1			1	-6.6					
-15 / -11	0		0	0	-12.2										

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.

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

Period of Record = 1973 to 1995

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															
90 / 94		0		0	69.3		2	0	2	68.6		0	1	7	73.0
85 / 89		1	0	1	65.5		5	1	6	67.9		6	3	18	73.6
80 / 84		3	0	3	62.9	0	11	3	14	66.3	0	15	3	41	70.4
75 / 79	0	3	1	4	60.5	1	18	6	25	62.8	1	31	9	83	67.8
70 / 74	1	9	3	13	57.1	4	31	12	47	60.0	6	55	23	133	65.3
65 / 69	1	18	5	24	53.7	11	51	24	86	57.2	25	62	47	160	63.6
60 / 64	5	28	11	44	51.1	32	54	47	133	55.1	58	39	63	160	61.5
55 / 59	14	44	27	85	48.8	69	19	52	140	58.1	48	9	29	85	53.9
50 / 54	31	54	50	135	45.4	53	40	58	151	51.9	26	3	13	42	49.7
45 / 49	53	46	59	158	41.7	67	24	60	151	48.1	8	0	1	9	45.3
40 / 44	60	25	52	137	38.0	53	8	30	91	44.1	0			0	39.1
35 / 39	48	7	26	81	33.6	22	2	7	31	39.7	5	0	1	6	34.3
30 / 34	23	2	5	30	28.7	0	0	0	0	29.4	0				
25 / 29	3	0	1	4	22.9										
20 / 24	1	0	0	1	18.5										
15 / 19	0	0		0	16.5										
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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PROVIDENCE/GREEN RI

WMO No. 725070

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

Period of Record = 1973 to 1995

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	75.0		0		0	83.3					
95 / 99		4	0	4	76.8		1	0	1	77.1		1		1	72.7
90 / 94	0	12	2	14	75.2		8	1	9	75.5		2	0	2	73.1
85 / 89	1	36	9	46	71.8	0	31	4	35	73.0		6	1	7	72.7
80 / 84	5	66	26	97	69.9	3	60	16	79	70.4	0	17	3	20	69.5
75 / 79	26	69	52	147	68.2	20	70	47	137	68.6	4	35	13	52	67.3
70 / 74	69	41	77	187	66.9	68	47	77	191	66.9	21	57	31	109	64.5
65 / 69	79	14	55	148	63.5	69	21	60	150	63.1	35	58	52	145	61.0
60 / 64	46	4	22	72	59.1	53	8	32	93	58.9	48	41	56	145	57.4
55 / 59	19	1	5	25	54.7	27	2	10	39	54.5	54	18	48	120	53.3
50 / 54	3		0	3	49.9	8	0	1	9	50.1	41	4	27	72	48.9
45 / 49	0			0	46.0	1		0	1	44.6	23	0	9	32	44.3
40 / 44						0			0	42.1	11		2	13	39.9
35 / 39											1		0	1	35.6
30 / 34											0			0	33.0
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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PROVIDENCE/GREEN RI

WMO No. 725070

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

Period of Record = 1973 to 1995

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		1		1	65.9										
75 / 79	0	7	0	7	65.3		1		1	62.0					
70 / 74	1	22	4	27	62.5		4	0	4	60.1		0		0	59.0
65 / 69	8	41	15	64	59.7	1	9	2	12	59.4	0	1		1	58.1
60 / 64	21	47	32	100	56.2	10	19	11	40	56.7	2	4	2	8	56.2
55 / 59	32	53	45	130	51.7	15	29	21	65	52.0	5	10	4	19	52.8
50 / 54	46	46	58	150	47.0	23	48	32	103	47.0	8	15	11	34	48.1
45 / 49	48	21	47	116	42.8	34	49	42	125	42.1	14	25	18	57	42.6
40 / 44	43	7	30	80	38.6	37	41	48	126	37.3	23	44	31	97	37.8
35 / 39	30	2	14	46	34.2	46	25	46	117	32.8	34	53	47	133	33.1
30 / 34	15	0	4	19	30.0	49	10	28	87	28.9	53	42	54	149	28.6
25 / 29	3		0	3	25.3	19	2	8	29	24.4	41	26	35	103	23.8
20 / 24	0			0	21.4	6	1	2	9	19.7	29	16	22	67	19.0
15 / 19						2	0	1	3	15.6	19	8	14	41	14.6
10 / 14						0			0	12.3	12	3	7	22	9.8
5 / 9						0			0	8.0	6	1	3	10	5.3
0 / 4											3	0	0	3	1.0
-5 / -1											0	0	0	0	-3.8
-10 / -6											0	0	0	0	-7.5
-15 / -11															

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PROVIDENCE/GREEN RI

WMO No. 725070

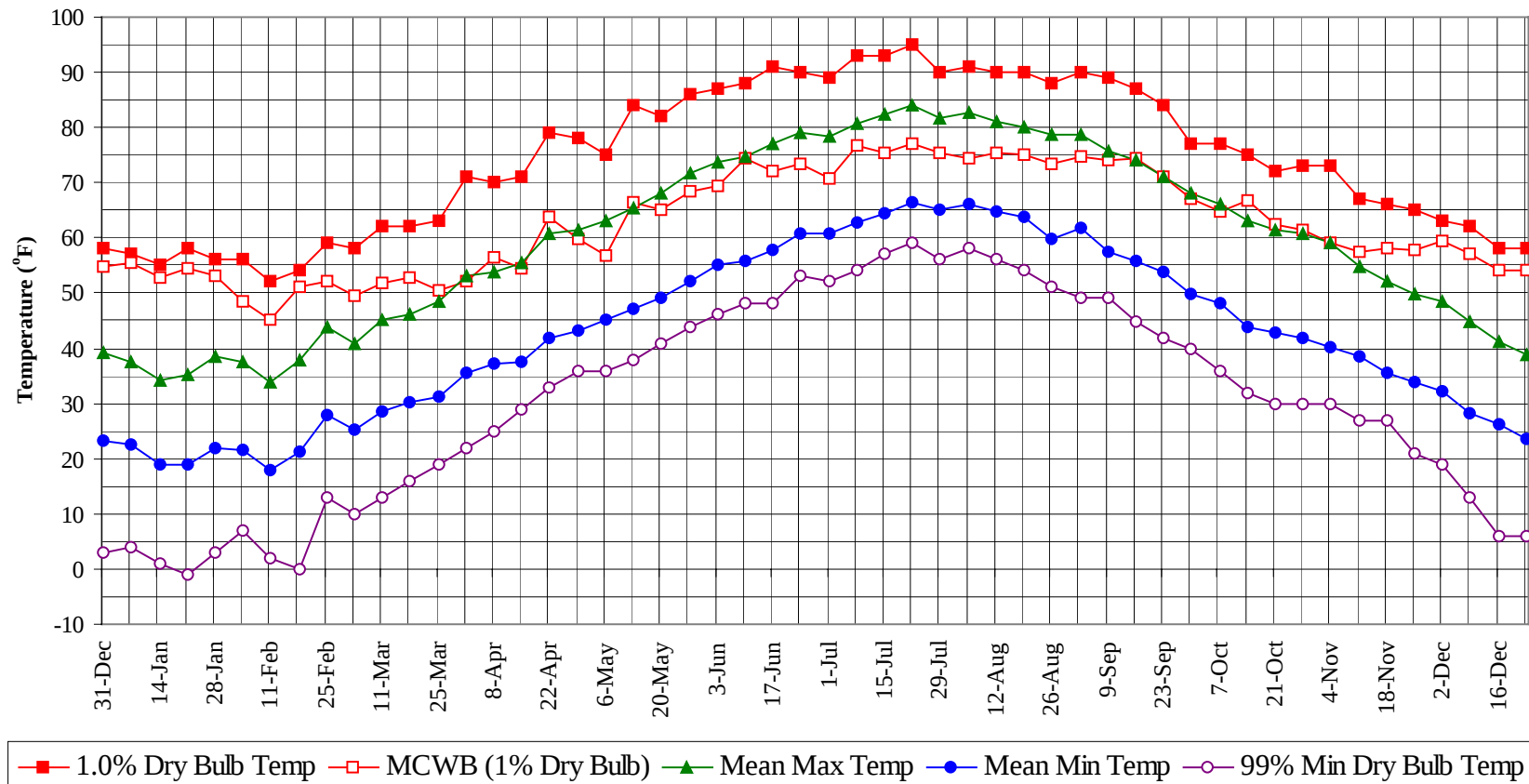
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1995

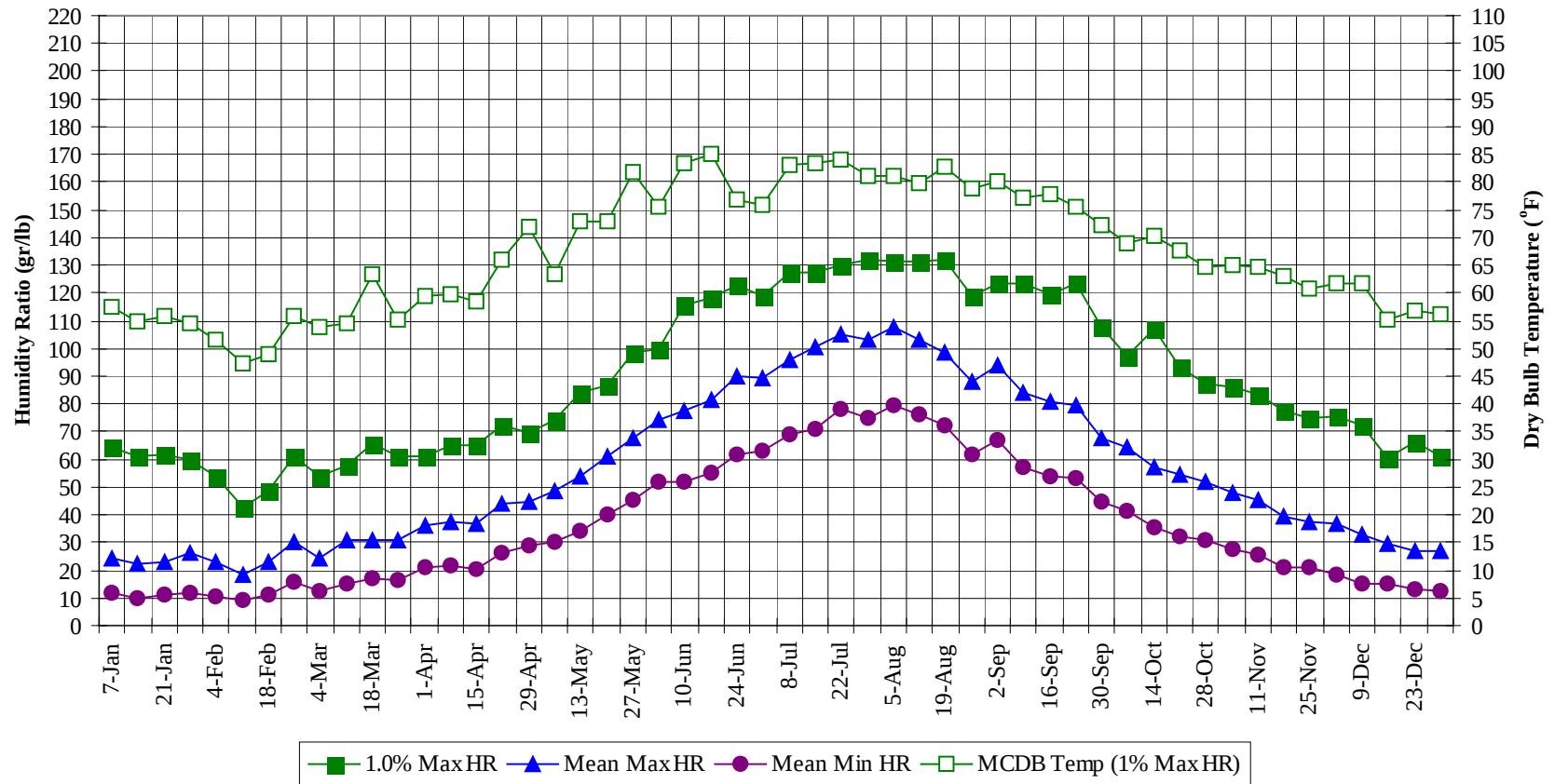
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104	0			0	78.1
95 / 99	5			0	5
90 / 94	0	31	3	34	74.4
85 / 89	1	95	17	113	71.8
80 / 84	9	189	56	254	69.4
75 / 79	58	258	141	456	67.2
70 / 74	188	275	250	713	65.1
65 / 69	262	259	277	797	61.1
60 / 64	287	237	269	793	56.8
55 / 59	270	231	256	757	52.2
50 / 54	269	246	274	788	47.3
45 / 49	265	233	262	760	42.5
40 / 44	259	227	267	753	37.9
35 / 39	272	217	268	757	33.2
30 / 34	281	170	233	684	28.6
25 / 29	175	107	149	431	23.7
20 / 24	127	72	97	296	19.0
15 / 19	92	39	57	188	14.6
10 / 14	58	18	28	104	10.0
5 / 9	29	7	14	50	5.4
0 / 4	14	2	4	20	0.8
-5 / -1	3	1	0	4	-3.5
-10 / -6	2	0	1	3	-7.5
-15 / -11	0		0	0	-12.2

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Annual Summary of Temperatures

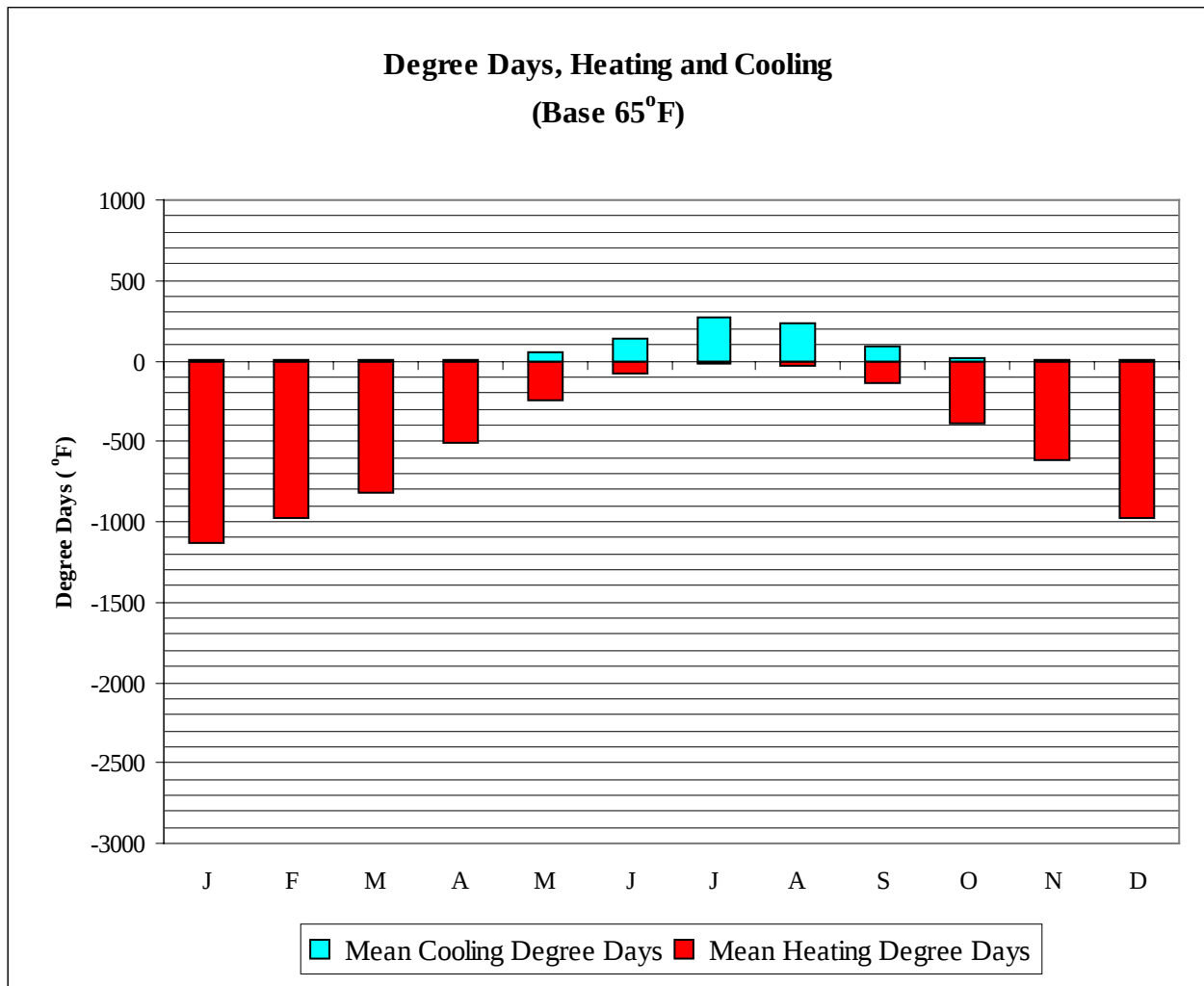


Long Term Humidity and Dry Bulb Temperature Summary

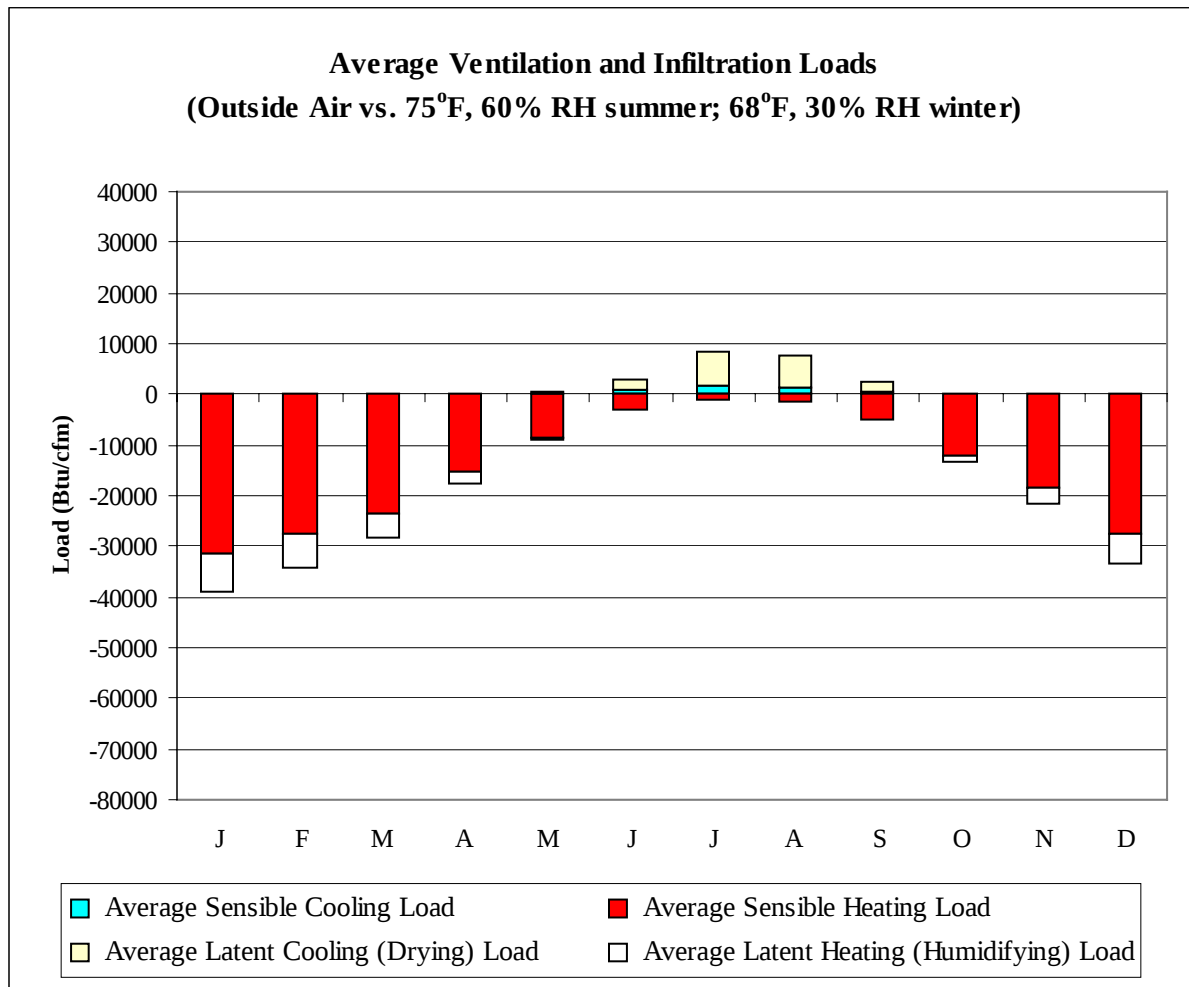


PROVIDENCE/GREEN RI**WMO No. 725070****Long Term Dry Bulb Temperature and Humidity Summary**

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	55.5	37.6	22.7	4.0	64.4	57.3	24.5	11.6
14-Jan	55.0	52.7	34.2	18.8	1.0	60.9	54.9	22.2	9.8
21-Jan	58.0	54.6	35.0	18.9	-1.0	61.6	55.9	22.7	11.0
28-Jan	56.0	53.3	38.6	21.9	3.0	59.5	54.6	26.0	11.9
4-Feb	56.0	48.6	37.5	21.5	7.0	53.9	51.5	22.9	10.8
11-Feb	52.0	45.3	33.9	18.1	2.0	42.7	47.4	18.7	8.9
18-Feb	54.0	51.0	37.9	21.1	0.0	48.3	48.9	23.0	11.0
25-Feb	59.0	52.2	43.9	28.0	13.0	60.9	55.7	30.4	15.9
4-Mar	58.0	49.5	40.9	25.2	10.0	53.9	53.9	24.0	12.6
11-Mar	62.0	51.9	45.2	28.5	13.0	58.1	54.4	30.6	15.4
18-Mar	62.0	52.8	46.2	30.2	16.0	65.8	63.5	30.8	16.8
25-Mar	63.0	50.6	48.4	31.1	19.0	60.9	55.2	30.8	16.6
1-Apr	71.0	52.2	53.0	35.4	22.0	60.9	59.6	35.8	20.8
8-Apr	70.0	56.5	53.7	37.0	25.0	65.1	59.8	37.2	21.6
15-Apr	71.0	54.6	55.5	37.4	29.0	65.1	58.3	36.5	20.7
22-Apr	79.0	63.7	60.7	41.8	33.0	72.1	65.9	43.9	26.0
29-Apr	78.0	59.8	61.3	43.1	36.0	69.3	72.1	44.7	28.9
6-May	75.0	56.9	63.3	45.2	36.0	74.2	63.3	48.4	30.5
13-May	84.0	66.3	65.6	47.2	38.0	84.0	72.9	53.8	33.9
20-May	82.0	65.0	68.1	49.2	41.0	86.8	72.9	61.0	40.0
27-May	86.0	68.5	71.9	52.0	44.0	98.7	81.8	67.6	45.5
3-Jun	87.0	69.3	73.6	55.1	46.0	100.1	75.6	74.5	51.7
10-Jun	88.0	74.6	74.7	55.7	48.0	115.5	83.4	77.7	51.9
17-Jun	91.0	72.2	77.0	57.7	48.0	118.3	85.0	81.7	55.3
24-Jun	90.0	73.6	79.1	60.7	53.0	122.5	77.0	90.2	61.6
1-Jul	89.0	70.9	78.4	60.7	52.0	119.0	75.9	89.0	63.0
8-Jul	93.0	76.7	80.8	62.7	54.0	127.4	83.1	95.9	69.1
15-Jul	93.0	75.5	82.5	64.6	57.0	127.4	83.4	100.7	71.2
22-Jul	95.0	77.0	84.2	66.4	59.0	130.2	84.0	105.3	78.4
29-Jul	90.0	75.4	81.8	64.9	56.0	132.3	81.0	103.0	74.8
5-Aug	91.0	74.4	82.8	66.0	58.0	131.6	81.2	107.6	79.6
12-Aug	90.0	75.3	81.2	64.8	56.0	131.6	79.8	102.9	76.1
19-Aug	90.0	74.9	80.2	63.6	54.0	132.3	82.6	98.6	72.4
26-Aug	88.0	73.4	78.6	59.9	51.0	119.0	78.7	88.1	61.5
2-Sep	90.0	74.7	78.9	61.6	49.0	123.2	80.0	93.7	66.8
9-Sep	89.0	74.0	75.9	57.6	49.0	123.2	77.1	84.0	57.3
16-Sep	87.0	74.3	74.2	55.7	45.0	119.7	77.8	80.7	53.7
23-Sep	84.0	71.0	70.9	53.8	42.0	123.2	75.7	79.7	53.2
30-Sep	77.0	67.1	68.1	49.8	40.0	107.8	72.1	67.6	44.4
7-Oct	77.0	64.9	66.2	48.3	36.0	97.3	69.1	64.6	41.5
14-Oct	75.0	66.8	63.2	43.9	32.0	107.1	70.4	57.0	35.3
21-Oct	72.0	62.6	61.4	43.0	30.0	93.1	67.6	54.6	32.3
28-Oct	73.0	61.3	60.8	41.7	30.0	87.5	64.7	51.6	30.6
4-Nov	73.0	59.2	59.0	40.1	30.0	86.1	64.9	48.1	27.9
11-Nov	67.0	57.3	54.8	38.5	27.0	83.3	64.6	45.5	25.6
18-Nov	66.0	58.0	52.1	35.4	27.0	77.7	63.1	39.6	21.2
25-Nov	65.0	57.7	49.7	33.7	21.0	74.9	60.7	37.8	20.8
2-Dec	63.0	59.6	48.6	32.0	19.0	75.6	61.9	36.5	18.4
9-Dec	62.0	57.0	44.8	28.4	13.0	72.1	61.8	32.6	15.1
16-Dec	58.0	54.1	41.3	26.3	6.0	60.2	55.1	29.7	15.0
23-Dec	58.0	54.0	38.8	23.6	6.0	66.5	56.7	26.8	12.9
31-Dec	58.0	54.9	39.3	23.3	3.0	60.9	56.0	26.7	12.6



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1126
FEB	0	975
MAR	1	815
APR	10	503
MAY	48	250
JUN	143	72
JUL	270	17
AUG	231	29
SEP	90	133
OCT	16	386
NOV	2	622
DEC	0	972
ANN	811	5900



	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	-31592	0	-7413
FEB	0	-27458	0	-6630
MAR	1	-23524	0	-4870
APR	42	-15269	3	-2401
MAY	243	-8438	246	-435
JUN	791	-2979	2271	-10
JUL	1890	-916	6416	0
AUG	1400	-1384	6110	0
SEP	360	-4902	2101	-63
OCT	19	-12195	297	-1007
NOV	1	-18420	28	-2984
DEC	0	-27613	0	-5952
ANN	4747	-174690	17472	-31765

Average Annual Solar Radiation – Nearest Available Site

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

City: PROVIDENCE
 State: RI
 WBAN No: 14765
 Lat(N): 41.73
 Long(W): 71.43
 Elev(ft): 62

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.583
 Vert Gap: 0.327

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	850	1180	1490	1760	1900	1870	1660	1340	970	610	490	1230
	Std Dev	42	77	93	127	124	144	130	106	78	68	45	39	42
	Minimum	530	710	970	1230	1500	1580	1630	1440	1210	870	530	410	1160
	Maximum	710	1050	1310	1720	2010	2200	2070	1880	1500	1170	690	560	1300
	Diffuse	290	410	550	710	840	890	880	780	610	430	310	250	580
Clear Day	Global	800	1150	1640	2140	2470	2590	2500	2210	1760	1260	850	690	1680
NORTH	Global	180	250	340	430	540	610	580	480	380	280	190	160	370
	Diffuse	180	250	340	430	500	540	530	460	380	280	190	160	350
Clear Day	Global	180	240	330	430	580	680	620	480	360	260	190	160	380
EAST	Global	410	560	730	880	980	1050	1010	950	800	620	410	340	730
	Diffuse	230	310	420	520	600	630	630	570	460	340	230	200	430
Clear Day	Global	620	820	1080	1300	1420	1450	1410	1310	1120	860	630	540	1050
SOUTH	Global	1020	1120	1090	960	860	810	850	960	1080	1150	930	900	980
	Diffuse	340	420	490	540	580	590	600	580	520	440	330	300	480
Clear Day	Global	1770	1880	1790	1470	1150	1010	1050	1300	1610	1790	1730	1670	1520
WEST	Global	410	550	730	860	980	1040	1040	940	800	620	400	340	730
	Diffuse	230	320	420	520	610	640	640	580	470	350	240	200	430
Clear Day	Global	620	820	1080	1300	1420	1450	1410	1310	1120	860	630	540	1050

Average Annual Solar Heat and Illumination – Nearest Available Site

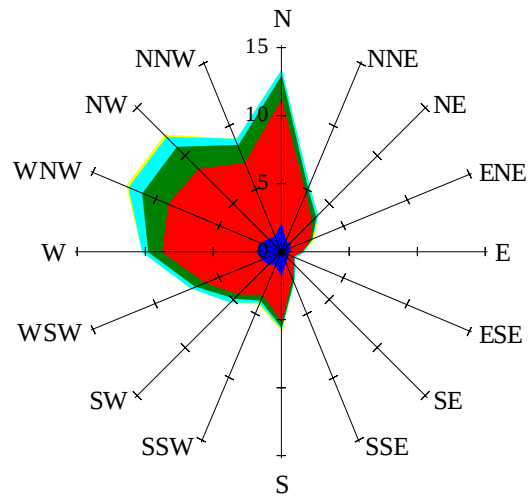
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	380	580	830	1070	1270	1380	1350	1200	950	670	400	310	870
NORTH	Unshaded	130	180	240	300	360	400	380	320	260	190	130	110	250
	Shaded	110	150	210	260	310	350	330	290	230	170	120	95	220
EAST	Unshaded	280	390	510	630	690	740	720	670	570	440	280	230	510
	Shaded	250	340	440	530	580	610	590	560	480	380	250	210	440
SOUTH	Unshaded	770	820	760	640	550	500	530	620	740	830	700	680	680
	Shaded	750	760	590	410	350	350	360	380	520	720	670	660	540
WEST	Unshaded	280	390	510	610	700	740	740	670	560	440	280	230	510
	Shaded	250	340	440	510	580	610	610	560	480	380	240	210	430

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	42	72	77	56	19	53	86	99	90	62
	M.Cloudy	24	43	45	34	12	32	54	69	63	41
NORTH	M.Clear	10	14	15	12	7	15	17	17	17	15
	M.Cloudy	10	15	16	13	5	13	18	20	19	14
EAST	M.Clear	71	49	15	12	7	79	67	24	17	15
	M.Cloudy	25	27	16	13	5	33	38	23	19	14
SOUTH	M.Clear	45	77	82	60	19	13	38	51	43	19
	M.Cloudy	18	35	38	28	8	12	26	37	32	16
WEST	M.Clear	10	14	30	67	51	13	17	17	57	77
	M.Cloudy	10	15	21	30	16	12	18	20	39	40
M.Clear	(% hrs)	37	35	34	34	37	39	37	32	29	34
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	32	67	81	70	38	15	38	40	20	0
	M.Cloudy	19	41	54	47	24	9	22	23	12	0
NORTH	M.Clear	9	14	16	15	11	6	10	10	7	0
	M.Cloudy	8	15	17	16	10	4	9	9	6	0
EAST	M.Clear	64	63	21	15	11	37	32	10	7	0
	M.Cloudy	22	32	20	16	10	10	15	9	6	0
SOUTH	M.Clear	26	61	76	65	32	38	78	81	48	0
	M.Cloudy	12	31	44	37	17	10	27	28	15	0
WEST	M.Clear	9	14	16	56	67	6	10	26	41	0
	M.Cloudy	8	15	17	34	29	4	9	13	13	0
M.Clear	(% hrs)	44	43	39	37	39	37	36	36	36	39

Wind Summary - December, January, and February

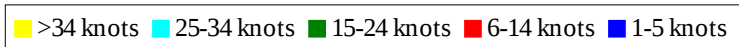
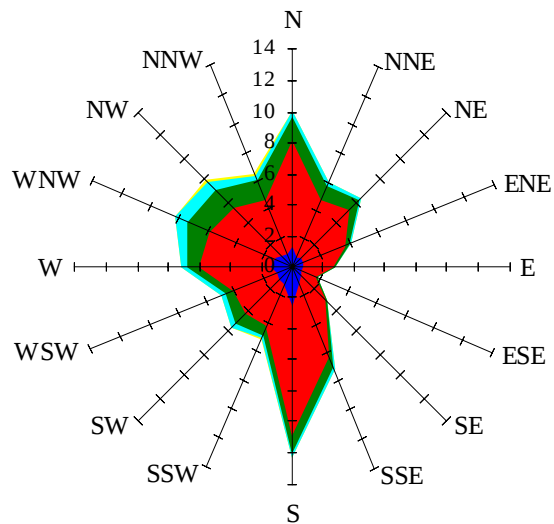
Labels of Percent Frequency on North Axis



Percent Calm = 4.56

Wind Summary - March, April, and May

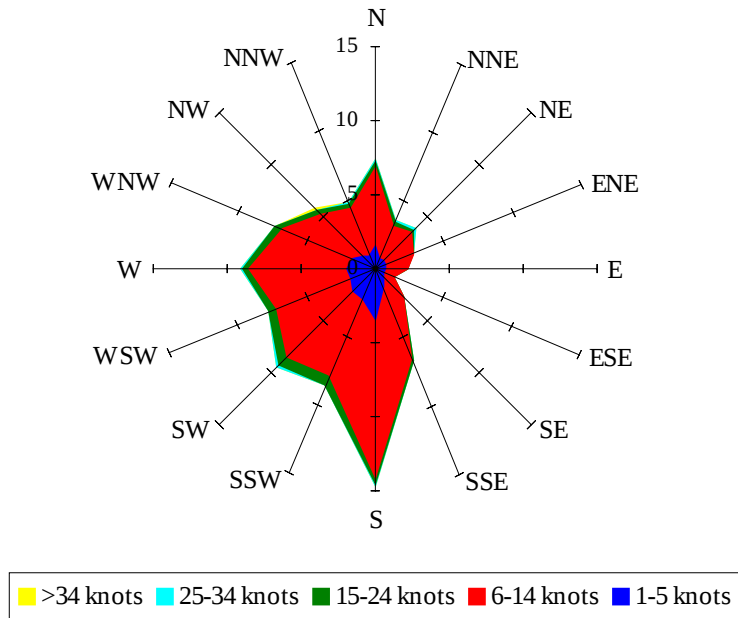
Labels of Percent Frequency on North Axis



Percent Calm = 2.67

Wind Summary - June, July, and August

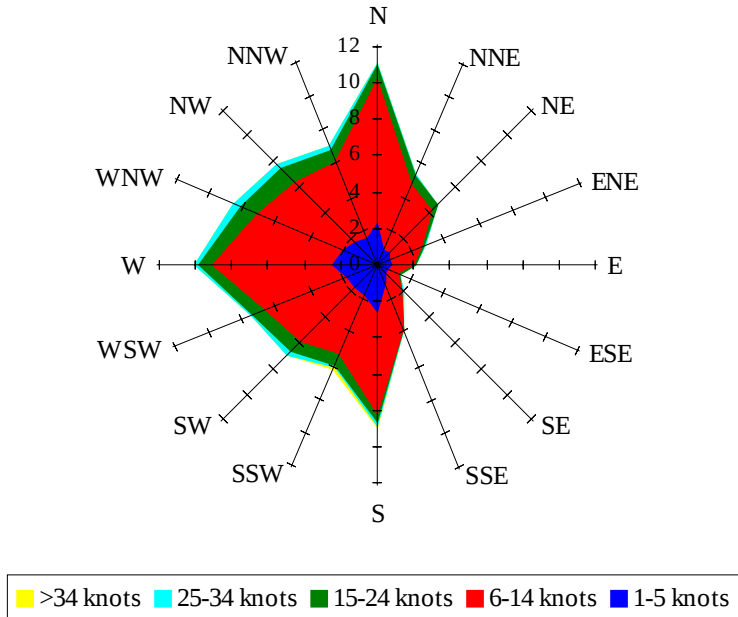
Labels of Percent Frequency on North Axis



Percent Calm = 2.63

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 4.59