

GLENVIEW IL	
Latitude = 42.08 N	WMO No. 725306
Longitude = 87.82 W	Elevation = 653 feet
Period of Record = 1973 to 1995	Average Pressure = 29.28 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	97	77	111	10.5	WSW
0.4% Occurrence	92	75	104	9.8	SW
1.0% Occurrence	89	73	99	9.5	SW
2.0% Occurrence	86	71	94	9.0	SSW
Mean Daily Range	16	-	-	-	-
97.5% Occurrence	8	7	6	8.2	W
99.0% Occurrence	1	0	4	8.3	W
99.6% Occurrence	-4	-5	3	9.7	W
Median of Extreme Lows	-7	-8	2	9.1	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	81	92	143	9.8	SW
0.4% Occurrence	78	89	128	9.4	SW
1.0% Occurrence	76	86	121	8.5	SSW
2.0% Occurrence	74	83	114	7.6	SSW
	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	150	85	0.97	8.2	S
0.4% Occurrence	130	83	0.85	8.1	SW
1.0% Occurrence	123	80	0.79	7.4	SSW
2.0% Occurrence	118	80	0.77	7.0	SSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		34	589	284	1057

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	3.1	90	1.4 + 0.6
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 (#)
52.6	N/A	N/A	51

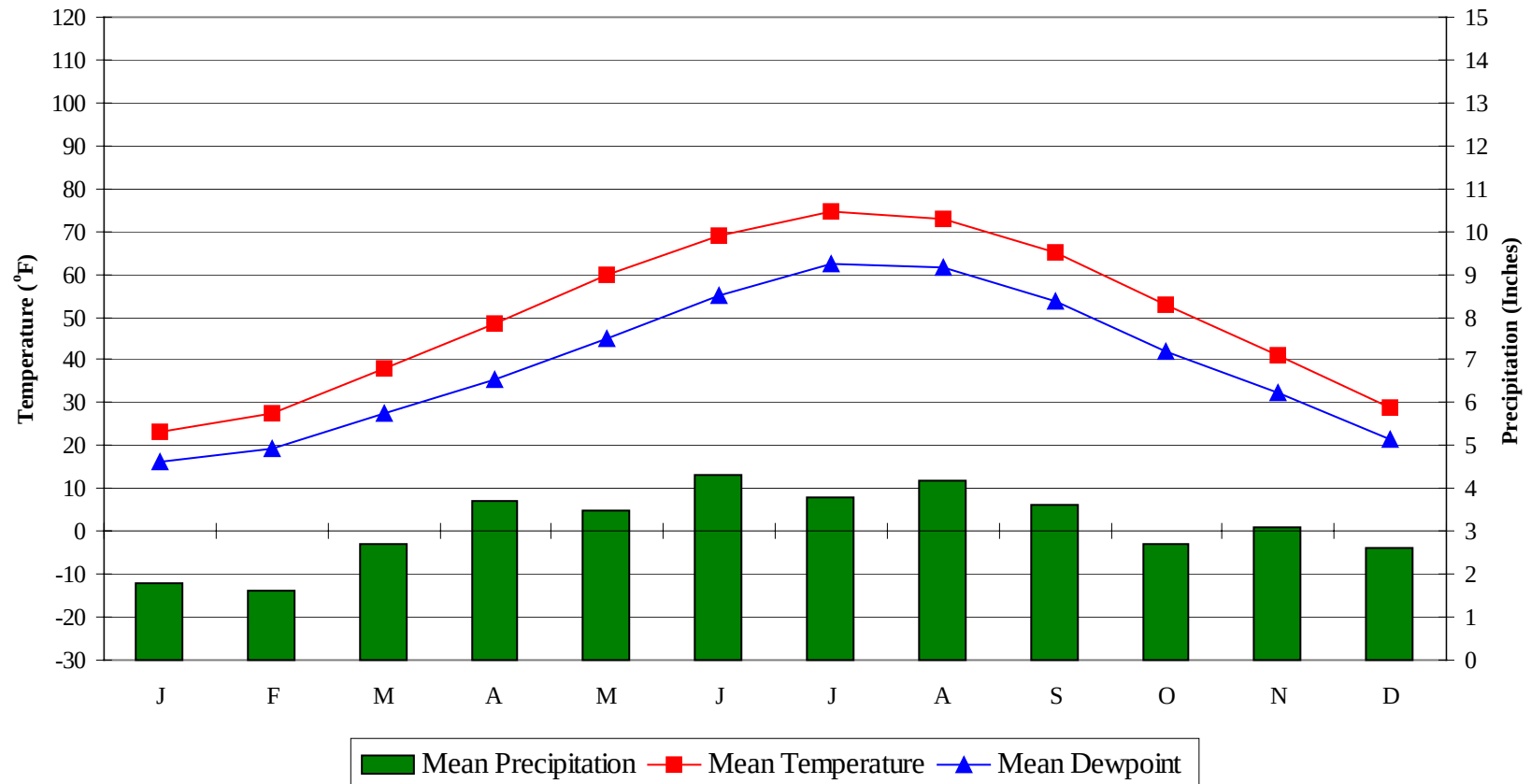
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

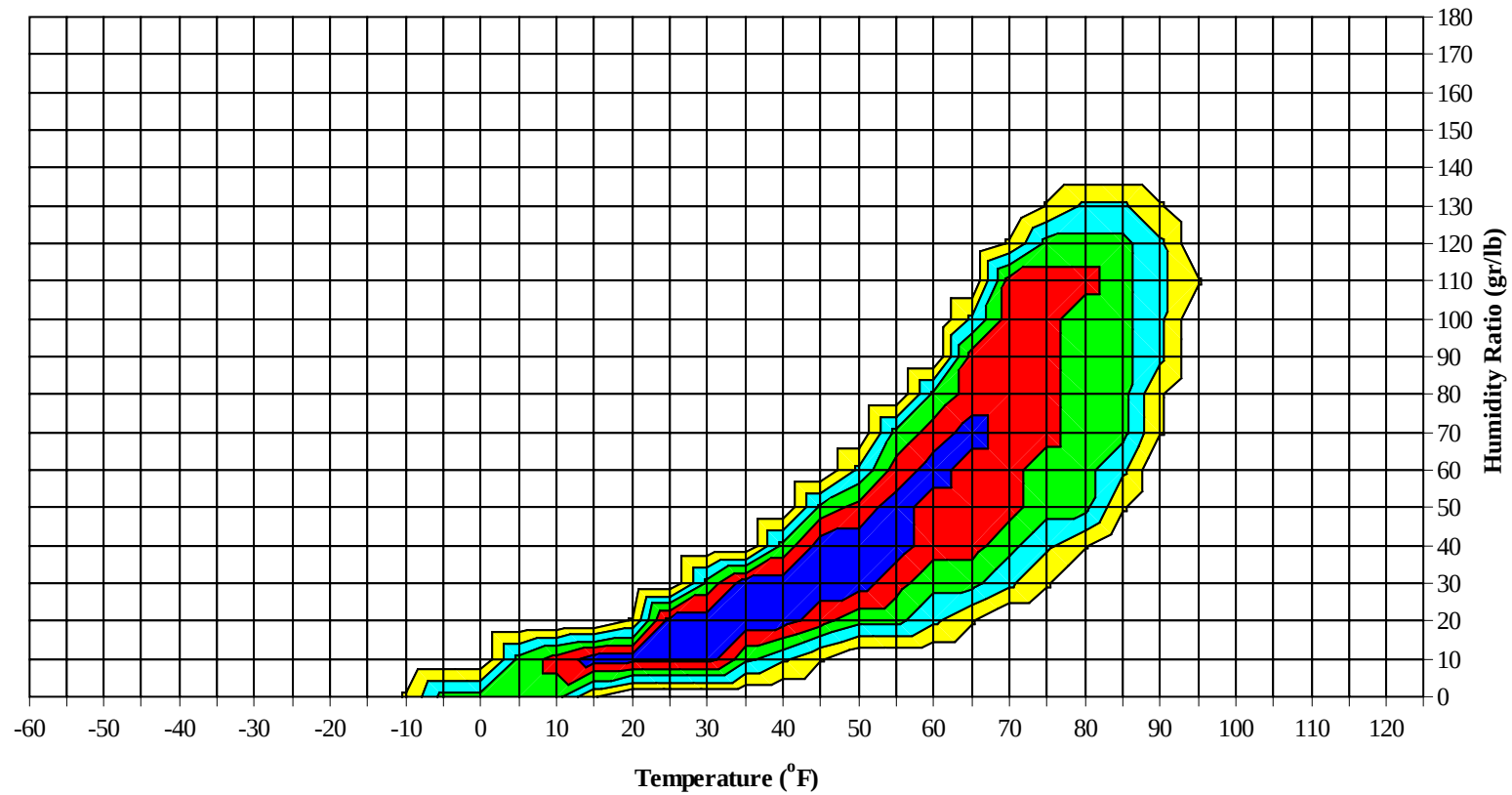


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Long Term Psychrometric Summary



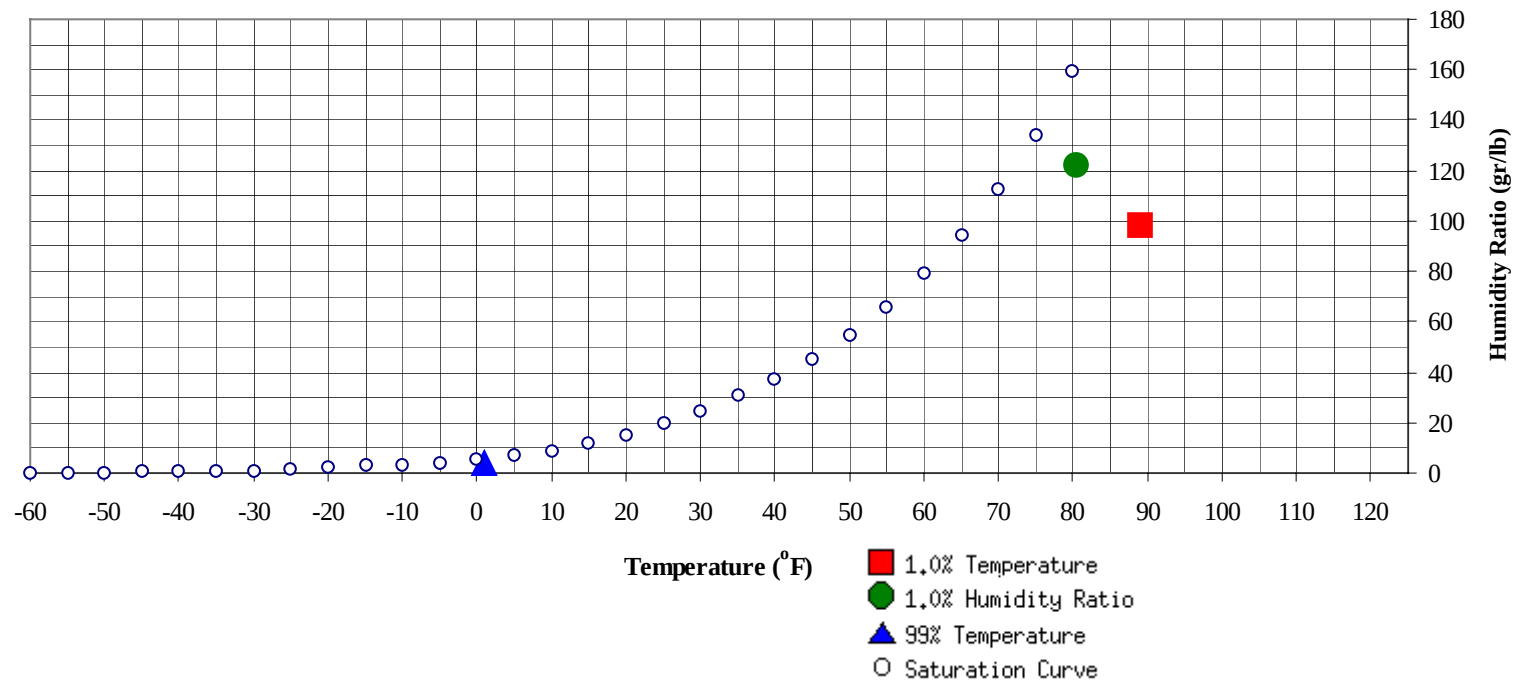
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	1	3.9	0.8		122.5	80.4	74.4	72	38.5

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	89	98.3	72.8	36.8

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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												0		0	61.8
80 / 84												1	0	1	60.8
75 / 79												2	1	3	59.7
70 / 74							0		0	51.7		4	2	6	58.9
65 / 69		0		0	52.5		0	0	0	51.9	1	6	4	11	56.2
60 / 64		0	0	0	52.4		2	0	2	50.4	5	10	7	22	53.4
55 / 59	0	1	1	2	51.3	1	4	2	7	49.1	7	14	10	31	49.4
50 / 54	1	3	2	6	47.1	2	5	4	11	45.5	8	19	14	41	45.2
45 / 49	2	6	4	12	41.8	4	13	6	23	41.5	16	30	22	68	41.4
40 / 44	7	17	10	34	37.9	9	23	16	48	37.6	26	44	33	103	37.3
35 / 39	25	34	30	89	33.8	30	42	38	110	33.6	52	50	58	160	33.6
30 / 34	42	46	47	135	29.7	42	39	40	121	29.4	54	35	48	137	29.4
25 / 29	37	40	41	118	25.0	34	34	36	104	24.6	38	19	27	84	24.6
20 / 24	36	32	32	100	20.3	31	25	28	84	20.0	21	8	15	44	20.2
15 / 19	23	24	22	69	15.4	18	16	19	53	15.4	13	3	5	21	15.2
10 / 14	20	18	22	60	10.6	19	11	18	48	10.7	5	1	3	9	11.0
5 / 9	19	12	15	46	6.0	17	7	10	34	6.1	2	0	0	2	6.3
0 / 4	16	8	11	35	1.1	13	2	5	20	1.3	1			1	2.5
-5 / -1	10	4	6	20	-3.2	3	1	2	6	-2.9	0			0	-1.0
-10 / -6	5	2	3	10	-7.5	2	0	0	2	-7.1					
-15 / -11	3	1	2	6	-12.1	1		0	1	-11.8					
-20 / -16	2	1	1	4	-16.5										
-25 / -21	0	0	0	0	-20.0										

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.

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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												1	0	1	75.2
95 / 99												1	0	1	72.6
90 / 94		0	0	0	63.3		2	0	2	70.3		13	3	16	71.3
85 / 89		2	0	2	64.7	0	14	3	17	68.1	1	25	9	35	69.9
80 / 84		6	3	9	63.3	0	20	7	27	65.7	6	41	20	67	67.7
75 / 79	0	7	5	12	61.2	4	25	15	44	63.4	18	47	32	97	65.6
70 / 74	4	11	8	23	58.6	16	32	23	71	60.5	40	43	45	128	63.3
65 / 69	9	18	11	38	56.6	29	36	28	93	57.8	53	32	44	129	60.3
60 / 64	13	24	17	54	53.0	29	37	34	100	54.1	53	20	43	116	56.4
55 / 59	15	28	21	64	48.6	41	36	37	114	50.5	37	13	26	76	52.0
50 / 54	23	41	30	94	44.9	47	27	43	117	46.7	23	4	16	43	48.1
45 / 49	41	39	41	121	41.6	46	16	38	100	42.6	7	0	2	9	43.8
40 / 44	53	34	49	136	37.7	26	4	16	46	38.7	1		0	1	40.2
35 / 39	45	21	34	100	33.9	10	1	2	13	34.8					
30 / 34	25	7	15	47	29.3	2	0	0	2	30.7					
25 / 29	9	1	5	15	25.0										
20 / 24	2	0	1	3	20.4										
15 / 19	1	0	0	1	16.3										
10 / 14	0	0		0	12.7										
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															

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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	80.6		1	0	1	78.1					
95 / 99		8	1	9	76.4		4	1	5	77.6		0		0	78.3
90 / 94		21	6	27	75.4	0	12	3	15	75.9		4	1	5	73.9
85 / 89	2	45	17	64	72.8	1	31	10	42	73.2	0	12	3	15	72.0
80 / 84	15	55	36	106	70.5	7	50	27	84	70.8	1	29	10	40	69.5
75 / 79	41	53	53	147	68.3	26	66	46	138	68.3	9	37	19	65	66.7
70 / 74	68	42	63	174	65.7	71	54	71	196	66.2	30	44	37	111	64.4
65 / 69	67	18	46	132	62.5	68	23	56	147	62.4	40	44	47	131	60.9
60 / 64	40	4	21	65	58.6	45	6	27	78	58.3	48	38	49	135	56.7
55 / 59	13	1	4	18	54.5	24	0	7	31	54.0	46	22	40	108	52.4
50 / 54	2		0	2	49.6	4		1	5	49.6	36	8	22	66	48.4
45 / 49	0			0	45.7	1		0	1	44.4	19	2	10	31	43.9
40 / 44											8	0	3	11	38.9
35 / 39											3		0	3	34.8
30 / 34											0			0	31.8
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															

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WMO No. 725306

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	67.1										
80 / 84		3	0	3	66.4										
75 / 79	0	9	3	12	64.0		0		0	59.8					
70 / 74	2	21	8	31	60.7		3	0	3	60.7					
65 / 69	10	29	19	58	58.3	1	6	4	11	58.3	0	0	0	0	62.1
60 / 64	20	40	32	92	55.1	7	14	11	32	56.2	1	2	2	5	58.5
55 / 59	34	47	38	119	50.8	13	19	15	47	52.0	2	5	3	10	53.0
50 / 54	44	48	51	143	46.9	17	28	22	67	46.7	3	5	5	13	47.2
45 / 49	49	31	44	124	42.9	24	38	29	91	42.3	5	11	7	23	43.1
40 / 44	43	14	34	91	38.7	41	47	49	137	38.2	13	28	19	60	38.0
35 / 39	29	4	16	49	34.4	47	40	47	134	33.8	39	48	42	130	33.9
30 / 34	14	0	4	18	30.4	42	26	34	102	29.4	57	56	59	173	29.9
25 / 29	2		1	3	25.5	27	12	17	56	25.0	38	31	34	104	25.0
20 / 24	1		0	1	21.4	11	4	8	23	20.6	27	22	27	76	20.1
15 / 19						7	1	3	11	16.1	20	14	16	50	15.3
10 / 14						2	0	1	3	11.3	14	11	15	40	10.7
5 / 9						1	0	0	1	6.0	13	7	10	30	6.1
0 / 4						0	0	0	0	2.2	6	4	6	16	1.2
-5 / -1						0			0	-2.5	4	1	2	7	-3.3
-10 / -6						0			0	-5.0	2	1	1	4	-7.6
-15 / -11											2	0	1	3	-11.8
-20 / -16											0	0		0	-17.7
-25 / -21															

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.

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WMO No. 725306

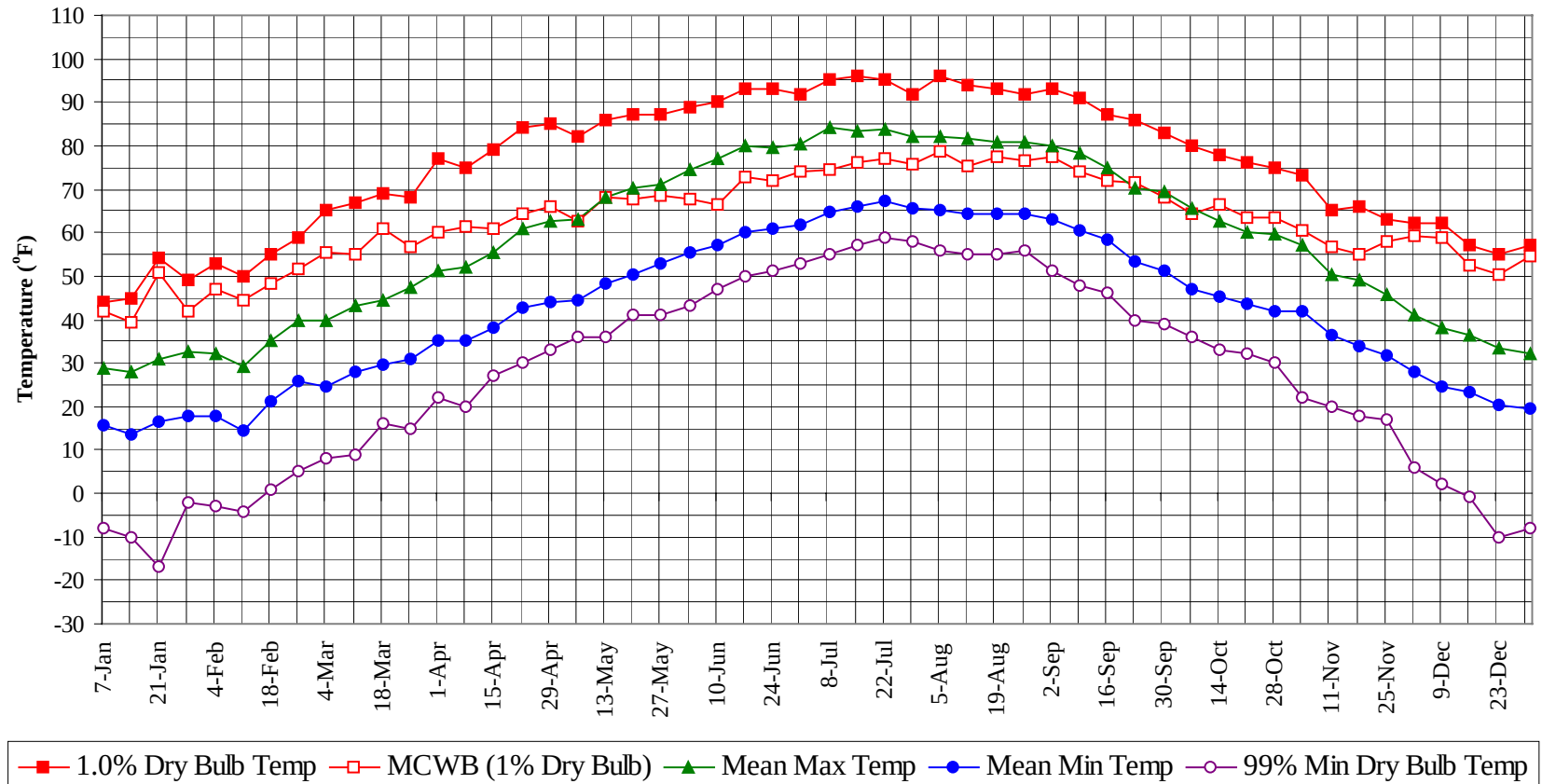
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1995

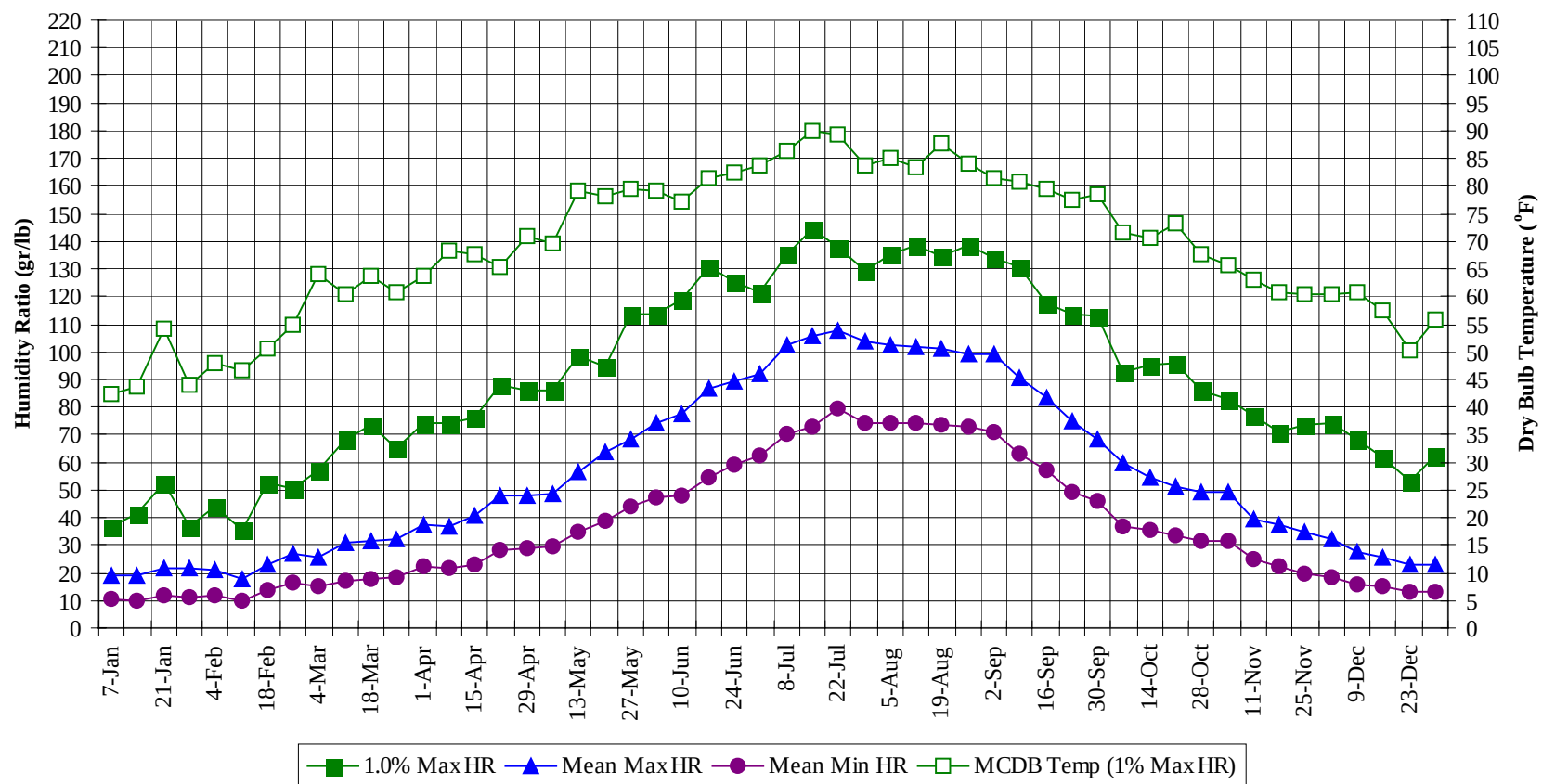
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		2	0	2	77.6
95 / 99		13	2	15	76.5
90 / 94	0	51	13	64	74.3
85 / 89	4	129	42	175	71.7
80 / 84	30	204	103	336	69.2
75 / 79	99	247	171	516	66.8
70 / 74	228	252	256	737	64.2
65 / 69	275	212	256	743	60.4
60 / 64	259	197	241	696	56.0
55 / 59	230	189	202	621	51.2
50 / 54	209	189	207	605	46.7
45 / 49	212	185	201	598	42.3
40 / 44	225	212	227	664	38.0
35 / 39	280	242	269	791	33.8
30 / 34	279	211	250	740	29.6
25 / 29	187	140	164	491	24.8
20 / 24	130	93	112	335	20.2
15 / 19	82	59	67	208	15.4
10 / 14	62	42	60	164	10.7
5 / 9	53	27	37	117	6.0
0 / 4	38	15	24	77	1.2
-5 / -1	18	6	9	33	-3.2
-10 / -6	9	3	5	17	-7.4
-15 / -11	5	2	3	10	-12.0
-20 / -16	3	1	1	5	-16.7
-25 / -21	1	0	0	1	-20.0

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Annual Summary of Temperatures

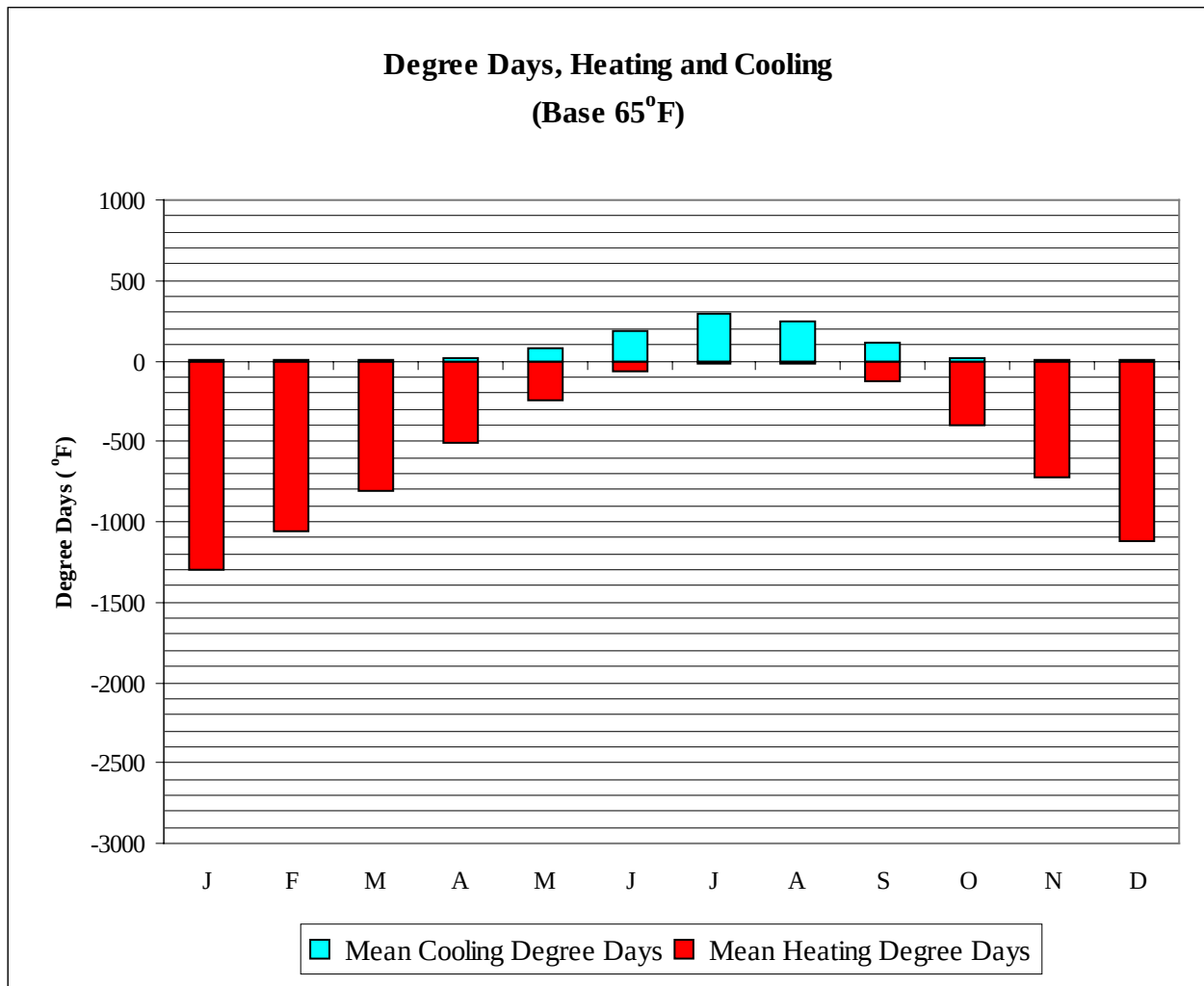


Long Term Humidity and Dry Bulb Temperature Summary



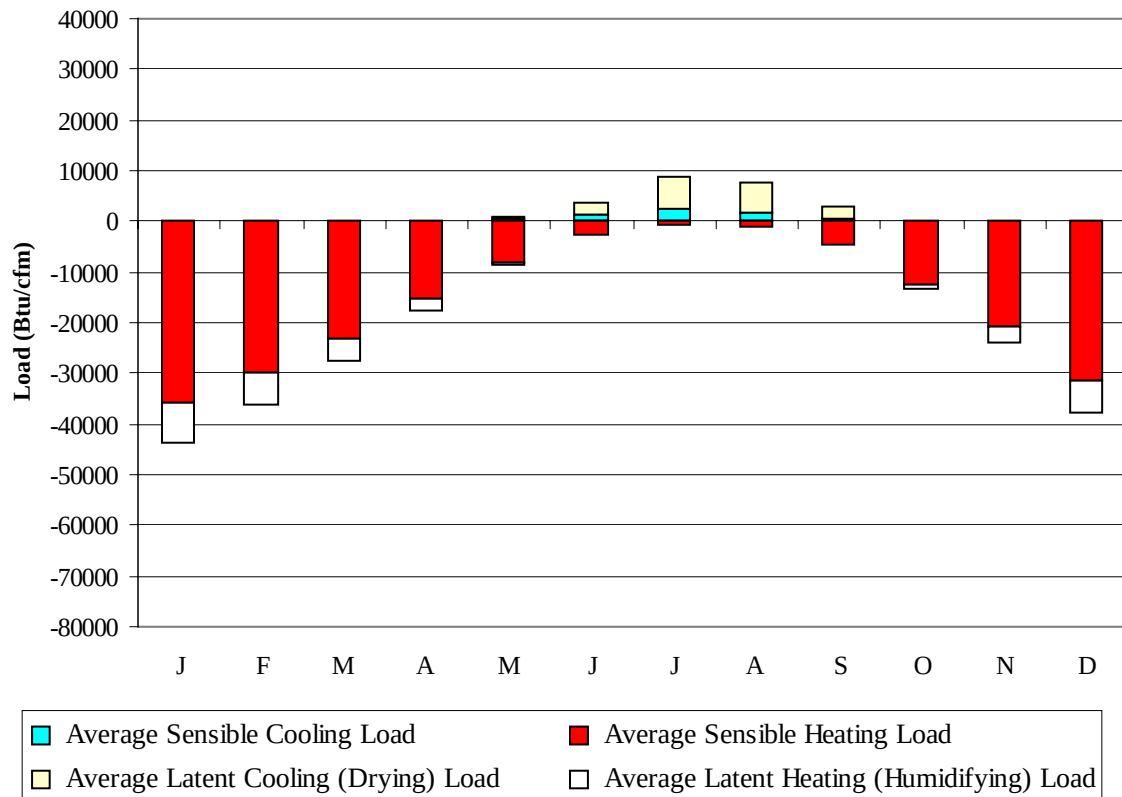
GLENVIEW**IL****WMO No. 725306****Long Term Dry Bulb Temperature and Humidity Summary**

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	44.0	42.1	28.8	15.6	-8.0	37.1	42.5	19.2	10.8
14-Jan	45.0	39.2	28.1	13.7	-10.0	41.3	43.6	18.8	9.7
21-Jan	54.0	51.0	30.8	16.5	-17.0	52.5	54.2	21.6	12.0
28-Jan	49.0	42.0	32.4	17.9	-2.0	37.1	43.9	21.6	11.5
4-Feb	53.0	47.0	32.2	17.8	-3.0	44.1	47.9	21.2	11.7
11-Feb	50.0	44.6	29.3	14.5	-4.0	35.7	46.6	18.0	9.8
18-Feb	55.0	48.1	35.2	21.3	1.0	52.5	50.5	22.9	13.5
25-Feb	59.0	51.6	39.8	25.6	5.0	50.4	54.8	27.0	16.4
4-Mar	65.0	55.4	39.6	24.7	8.0	57.4	64.1	25.6	14.9
11-Mar	67.0	55.1	43.3	27.7	9.0	68.6	60.5	30.9	17.3
18-Mar	69.0	60.8	44.6	29.6	16.0	73.5	63.8	31.5	18.0
25-Mar	68.0	56.6	47.5	30.9	15.0	65.1	60.7	32.1	18.6
1-Apr	77.0	60.1	51.2	35.3	22.0	74.2	63.7	37.6	22.1
8-Apr	75.0	61.5	51.9	35.2	20.0	74.2	68.3	37.0	21.5
15-Apr	79.0	60.8	55.2	38.1	27.0	76.3	67.7	41.0	23.3
22-Apr	84.0	64.2	60.9	42.8	30.0	88.2	65.3	47.7	28.6
29-Apr	85.0	66.1	62.4	43.9	33.0	86.1	71.0	48.2	29.0
6-May	82.0	62.8	63.2	44.6	36.0	86.1	69.7	48.6	29.6
13-May	86.0	68.0	68.3	48.4	36.0	98.7	79.1	56.5	35.1
20-May	87.0	67.7	70.1	50.3	41.0	94.5	78.1	63.5	38.8
27-May	87.0	68.8	71.3	52.9	41.0	113.4	79.5	68.5	44.1
3-Jun	89.0	67.7	74.4	55.3	43.0	113.4	79.2	74.3	47.4
10-Jun	90.0	66.6	77.2	57.1	47.0	119.0	77.2	77.8	48.1
17-Jun	93.0	72.9	80.1	60.1	50.0	130.9	81.5	86.5	54.8
24-Jun	93.0	72.0	79.5	60.9	51.0	125.3	82.3	89.2	59.2
1-Jul	92.0	74.3	80.4	61.9	53.0	121.8	83.8	92.0	62.1
8-Jul	95.0	74.7	84.1	64.8	55.0	135.1	86.2	102.2	70.3
15-Jul	96.0	76.3	83.6	66.2	57.0	144.2	89.9	106.0	72.7
22-Jul	95.0	77.2	83.6	67.2	59.0	137.9	89.4	107.8	79.6
29-Jul	92.0	75.7	82.2	65.7	58.0	129.5	83.6	104.1	74.3
5-Aug	96.0	78.8	81.9	65.0	56.0	135.1	85.1	102.1	74.3
12-Aug	94.0	75.2	81.5	64.5	55.0	138.6	83.4	102.0	74.4
19-Aug	93.0	77.5	80.8	64.2	55.0	134.4	87.6	101.3	73.6
26-Aug	92.0	76.4	80.7	64.4	56.0	138.6	84.1	99.5	72.9
2-Sep	93.0	77.6	80.1	63.3	51.0	133.7	81.6	99.4	71.0
9-Sep	91.0	73.9	78.4	60.4	48.0	130.9	80.8	90.8	62.8
16-Sep	87.0	71.9	74.9	58.6	46.0	117.6	79.5	83.7	57.4
23-Sep	86.0	71.4	70.4	53.5	40.0	113.4	77.5	74.7	49.0
30-Sep	83.0	68.0	69.4	51.2	39.0	112.7	78.6	68.0	45.9
7-Oct	80.0	64.4	65.7	47.0	36.0	92.4	71.7	59.6	36.9
14-Oct	78.0	66.5	62.7	45.1	33.0	95.2	70.6	54.8	35.4
21-Oct	76.0	63.4	60.1	43.5	32.0	95.9	73.3	51.4	33.2
28-Oct	75.0	63.5	59.5	41.9	30.0	86.1	67.5	49.3	31.7
4-Nov	73.0	60.5	57.0	41.7	22.0	82.6	65.7	49.4	31.7
11-Nov	65.0	56.6	50.2	36.2	20.0	77.0	62.9	39.4	24.7
18-Nov	66.0	55.2	48.9	34.1	18.0	70.7	60.7	37.2	22.3
25-Nov	63.0	58.0	45.9	31.8	17.0	73.5	60.6	35.1	20.0
2-Dec	62.0	59.1	41.0	28.1	6.0	74.2	60.4	32.4	18.2
9-Dec	62.0	58.8	38.0	24.5	2.0	68.6	60.7	27.6	15.7
16-Dec	57.0	52.4	36.5	23.3	-1.0	61.6	57.5	25.6	15.2
23-Dec	55.0	50.3	33.3	20.2	-10.0	53.2	50.2	23.3	13.4
31-Dec	57.0	54.5	32.1	19.3	-8.0	62.3	55.8	23.1	13.1



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1295
FEB	0	1060
MAR	4	806
APR	23	512
MAY	81	247
JUN	185	69
JUL	297	13
AUG	249	21
SEP	114	122
OCT	20	398
NOV	1	719
DEC	0	1123
ANN	975	6385

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	-35980	0	-7836
FEB	0	-29676	0	-6399
MAR	10	-23152	3	-4333
APR	121	-15391	35	-2229
MAY	511	-8124	524	-521
JUN	1426	-2742	2231	-28
JUL	2587	-743	6064	0
AUG	1810	-1075	6009	0
SEP	668	-4490	2110	-74
OCT	42	-12477	142	-856
NOV	0	-20933	4	-2989
DEC	0	-31514	1	-6311
ANN	7175	-186297	17123	-31576

Average Annual Solar Radiation – Nearest Available Site

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

City: CHICAGO
 State: IL
 WBAN No: 94846
 Lat(N): 41.78
 Long(W): 87.75
 Elev(ft): 623

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.585
 Vert Gap: 0.327

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	570	820	1100	1450	1800	1990	1940	1700	1330	950	570	460	1220
	Std Dev	46	70	68	115	147	115	105	111	98	68	47	43	36
	Minimum	460	710	970	1260	1510	1800	1730	1510	1140	790	450	380	1170
	Maximum	650	950	1220	1690	2130	2290	2110	1940	1560	1090	670	550	1330
	Diffuse	320	450	600	730	830	870	860	760	610	450	330	280	590
Clear Day	Global	810	1160	1640	2150	2480	2600	2520	2220	1770	1260	850	690	1680
NORTH	Global	190	260	350	430	550	620	590	480	370	280	200	160	370
	Diffuse	190	260	350	430	500	540	530	460	370	280	200	160	360
Clear Day	Global	180	240	330	430	580	680	620	480	360	270	190	160	380
EAST	Global	390	520	680	860	1020	1100	1090	980	800	610	370	300	730
	Diffuse	230	320	420	520	600	650	640	570	460	350	230	190	430
Clear Day	Global	620	820	1080	1300	1430	1460	1420	1310	1120	870	630	540	1050
SOUTH	Global	910	1020	980	940	880	840	870	980	1070	1080	800	740	930
	Diffuse	340	430	500	540	580	590	600	580	520	440	330	290	480
Clear Day	Global	1770	1880	1790	1470	1150	1010	1060	1300	1620	1790	1730	1660	1520
WEST	Global	380	530	660	830	1010	1090	1080	980	800	590	370	310	720
	Diffuse	230	320	420	520	610	650	640	580	470	350	240	200	440
Clear Day	Global	620	820	1080	1300	1430	1460	1420	1310	1120	870	630	540	1050

Average Annual Solar Heat and Illumination – Nearest Available Site

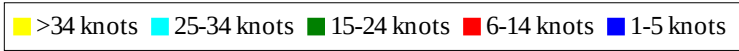
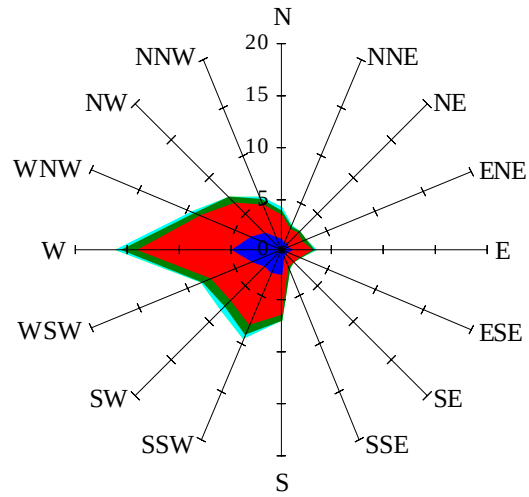
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	370	560	770	1040	1300	1440	1400	1220	950	650	380	290	870
NORTH	Unshaded	130	180	240	300	360	410	390	330	260	190	140	110	250
	Shaded	110	160	210	260	320	350	340	290	230	170	120	95	220
EAST	Unshaded	260	360	480	610	730	780	770	700	570	430	260	200	510
	Shaded	230	310	410	510	610	650	640	590	480	370	220	180	430
SOUTH	Unshaded	690	750	690	620	550	520	540	630	730	780	600	560	640
	Shaded	660	680	540	400	350	360	360	390	520	680	570	540	500
WEST	Unshaded	260	370	460	590	720	770	770	700	570	420	260	210	510
	Shaded	230	320	390	500	600	640	640	590	490	360	220	180	430

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	40	70	76	57	20	51	85	100	92	64
	M.Cloudy	23	42	48	34	12	33	59	71	67	45
NORTH	M.Clear	10	14	15	13	7	16	17	17	17	15
	M.Cloudy	9	15	16	13	6	13	18	19	19	15
EAST	M.Clear	70	51	15	13	7	77	68	26	17	15
	M.Cloudy	24	27	16	13	6	38	44	24	19	15
SOUTH	M.Clear	43	76	82	61	20	13	37	51	44	20
	M.Cloudy	18	35	41	28	9	12	28	38	34	18
WEST	M.Clear	10	14	28	66	52	13	17	17	56	78
	M.Cloudy	9	15	21	29	16	12	18	19	41	46
M.Clear	(% hrs)	28	25	22	23	24	40	39	33	32	34
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	30	66	81	71	40	14	37	40	21	0
	M.Cloudy	18	41	52	48	26	8	21	23	13	0
NORTH	M.Clear	9	14	16	15	11	5	10	10	7	0
	M.Cloudy	8	15	17	16	10	4	9	10	6	0
EAST	M.Clear	64	65	23	15	11	36	33	10	7	0
	M.Cloudy	22	33	20	16	10	8	14	10	6	0
SOUTH	M.Clear	24	60	76	66	34	35	76	81	50	0
	M.Cloudy	12	31	43	38	18	8	24	26	14	0
WEST	M.Clear	9	14	16	55	67	5	10	24	41	0
	M.Cloudy	8	15	17	33	30	4	9	13	12	0
M.Clear	(% hrs)	42	41	37	36	40	25	26	26	27	30

Wind Summary - December, January, and February

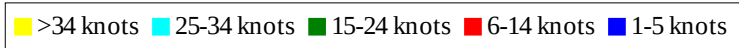
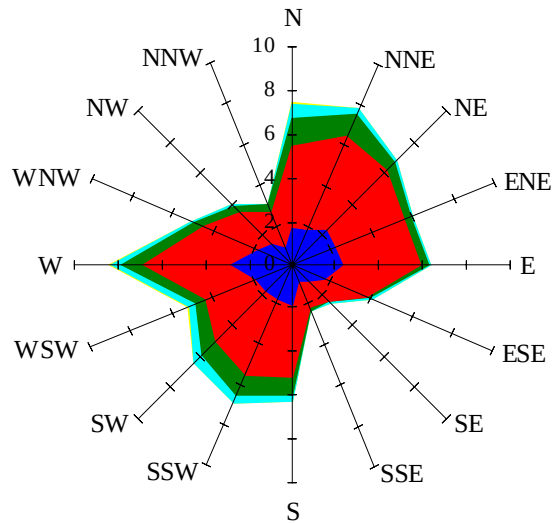
Labels of Percent Frequency on North Axis



Percent Calm = 9.04

Wind Summary - March, April, and May

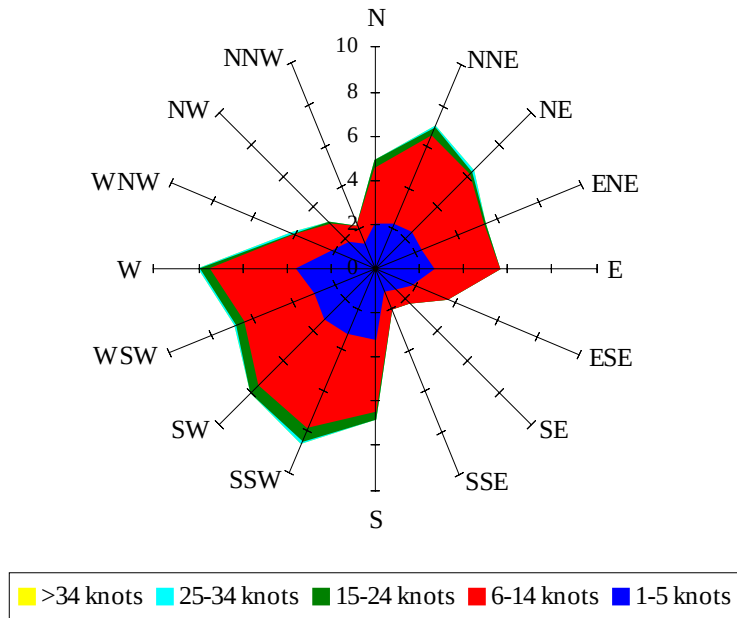
Labels of Percent Frequency on North Axis



Percent Calm = 12.21

Wind Summary - June, July, and August

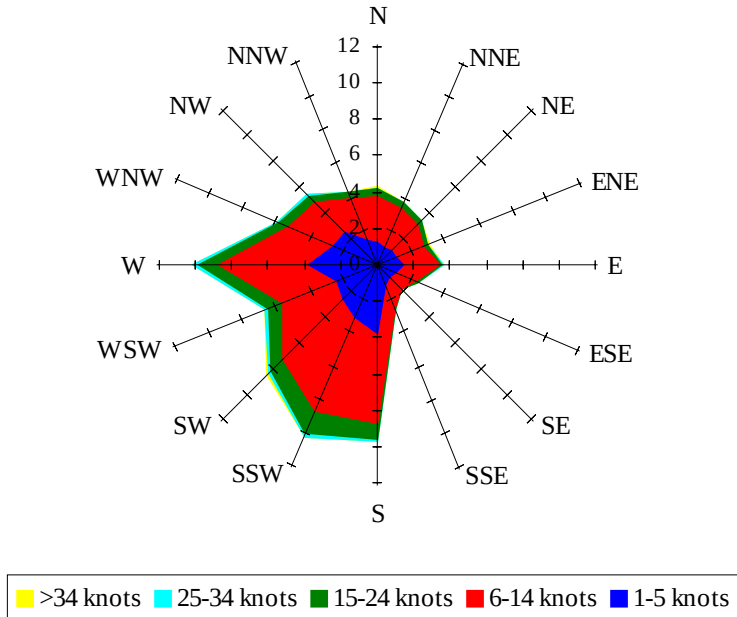
Labels of Percent Frequency on North Axis



Percent Calm = 16.45

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 14.87