

PEORIA IL	
Latitude = 40.67 N	WMO No. 725320
Longitude = 89.68 W	Elevation = 663 feet
Period of Record = 1973 to 1996	Average Pressure = 29.29 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	78	116	10.9	SSW
0.4% Occurrence	92	76	115	10.6	S
1.0% Occurrence	90	75	113	10.4	S
2.0% Occurrence	87	74	107	10.1	S
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	7	6	5	10.2	WNW
99.0% Occurrence	0	-1	4	10.0	W
99.6% Occurrence	-6	-7	3	9.5	WNW
Median of Extreme Lows	-12	-12	2	11.7	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	90	145	9.4	S
0.4% Occurrence	79	89	135	9.8	S
1.0% Occurrence	77	86	127	9.4	S
2.0% Occurrence	76	84	123	9.0	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	154	88	1.00	8.5	S
0.4% Occurrence	139	85	0.90	8.5	S
1.0% Occurrence	131	82	0.85	9.3	S
2.0% Occurrence	126	81	0.82	8.2	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		35	706	492	1424

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	3.3	90	2.3 + 0.7
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	19	56

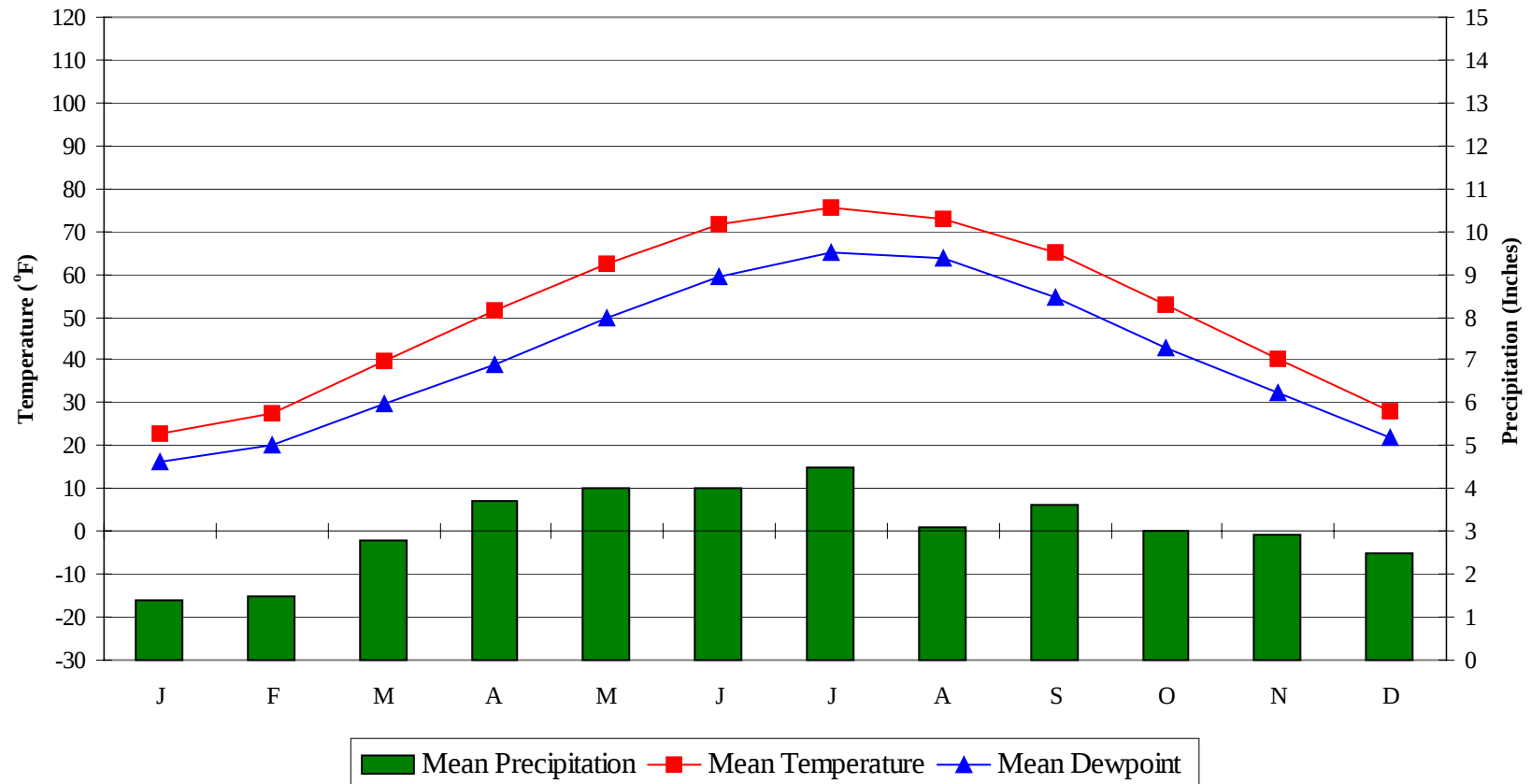
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

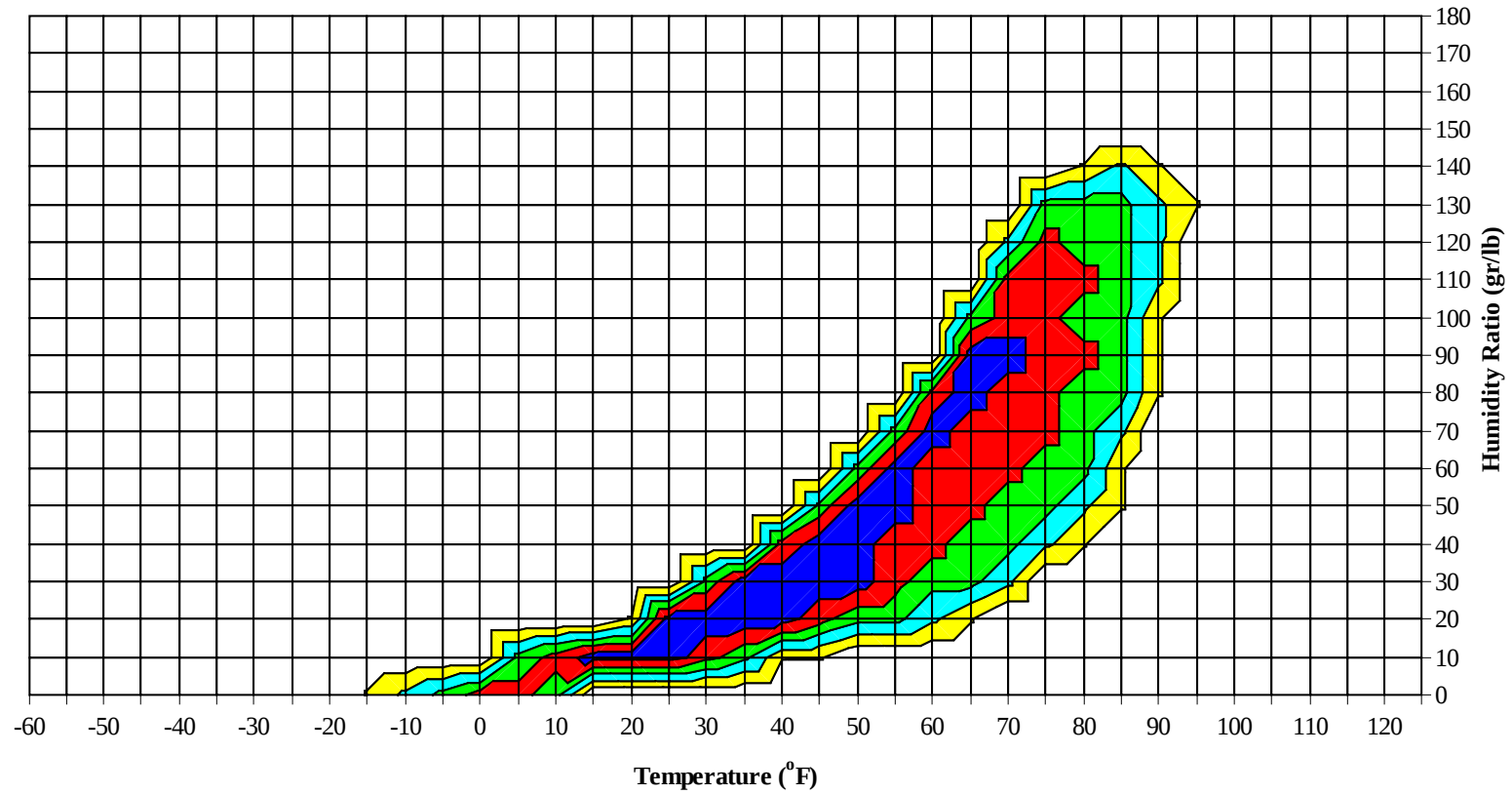


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Long Term Psychrometric Summary



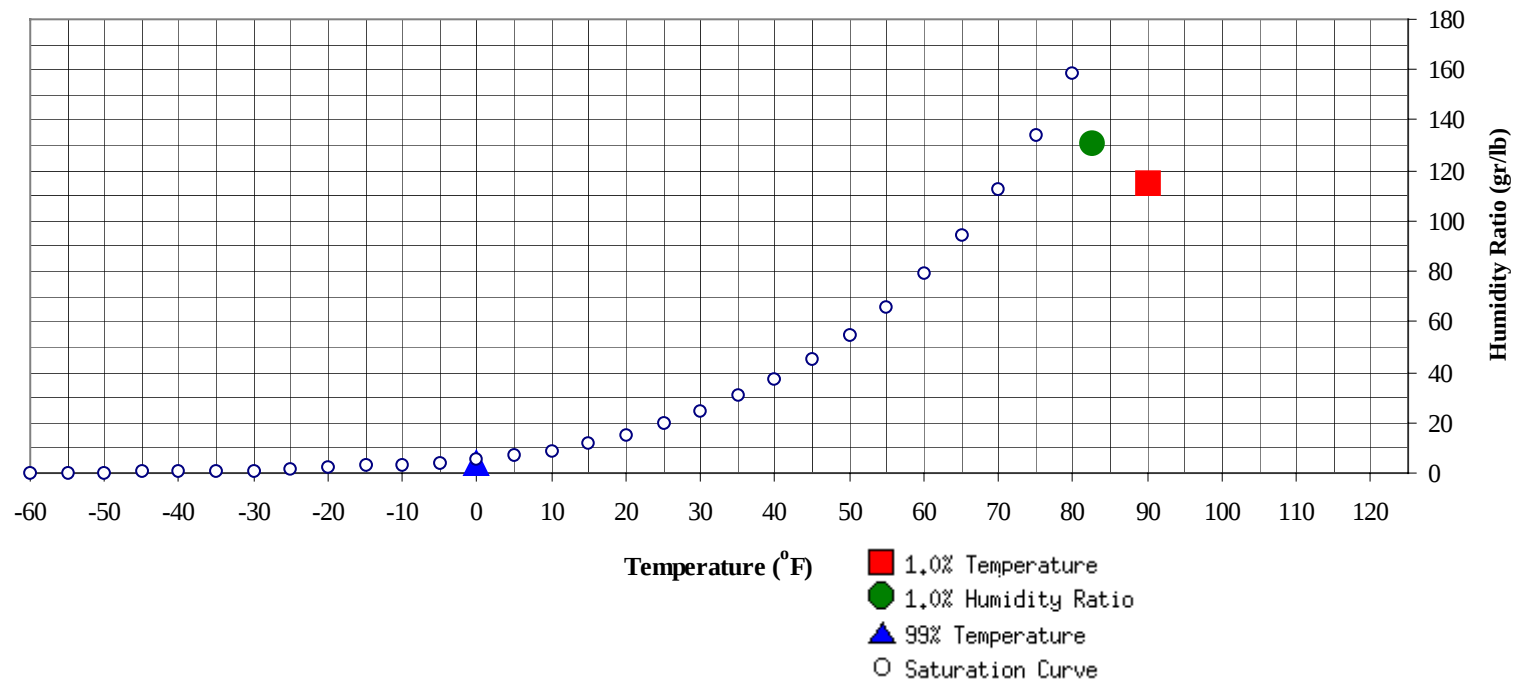
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	0	3.6	0.5		130.9	82.5	76.3	74	40.3

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	90	115	75.9	39.7

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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												0		0	64.0
80 / 84												1	0	1	62.6
75 / 79												2	1	3	60.5
70 / 74		0		0	53.0		0		0	57.2		7	3	10	58.6
65 / 69		0	0	0	52.8		1	0	1	54.2	0	8	6	14	56.8
60 / 64		0	0	0	53.7		3	1	4	52.2	5	16	11	32	54.0
55 / 59	0	2	1	3	52.2	1	5	3	9	49.0	9	18	15	42	50.3
50 / 54	1	4	2	7	47.7	2	9	5	16	46.6	10	25	21	56	45.8
45 / 49	2	7	5	14	42.6	4	15	10	29	42.1	17	33	31	81	42.0
40 / 44	5	17	10	32	38.7	8	23	19	50	38.4	35	40	39	115	38.2
35 / 39	19	30	30	79	34.4	26	34	32	92	34.3	45	39	39	124	33.8
30 / 34	40	44	45	129	30.2	48	39	45	131	30.1	49	29	40	119	29.6
25 / 29	42	39	40	121	25.3	35	29	31	95	24.9	34	15	23	72	24.7
20 / 24	33	30	32	95	20.4	26	22	24	72	20.2	23	9	12	44	20.3
15 / 19	25	24	22	71	15.4	21	17	19	57	15.5	11	3	5	19	15.3
10 / 14	22	20	22	64	10.6	15	12	14	41	10.7	6	1	2	9	10.9
5 / 9	19	12	18	49	5.8	13	8	10	31	5.9	2	0	1	3	6.1
0 / 4	18	10	11	39	1.1	13	5	8	26	1.3	1	0	0	1	1.3
-5 / -1	9	3	6	18	-3.0	7	1	3	11	-3.0	0			0	-3.3
-10 / -6	6	3	3	12	-7.5	4	1	1	6	-7.1	0			0	-6.5
-15 / -11	4	1	2	7	-12.2	2	0	0	2	-12.1					
-20 / -16	2	1	1	4	-17.0	1	0	0	1	-17.6					
-25 / -21	1			1	-20.9										

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 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												0	0	0	74.2
95 / 99												1	0	1	75.1
90 / 94		0		0	66.5		1	0	1	72.3		10	3	13	74.3
85 / 89		1	0	1	65.1		11	2	13	69.8	0	36	12	48	72.4
80 / 84		7	2	9	65.0	0	25	8	33	67.6	3	62	31	95	69.6
75 / 79		12	5	17	63.0	2	34	19	55	64.5	18	56	46	121	67.3
70 / 74	1	18	11	30	59.9	12	44	35	91	62.2	48	39	56	144	65.2
65 / 69	7	25	18	50	57.3	29	47	44	120	59.4	62	21	45	129	62.2
60 / 64	17	36	31	84	53.9	47	39	48	134	56.3	52	10	30	92	57.7
55 / 59	22	35	33	90	49.9	48	24	40	112	51.9	37	3	12	52	53.6
50 / 54	32	36	39	107	45.9	48	14	29	91	47.9	17	1	4	22	49.4
45 / 49	43	30	37	110	42.3	35	6	15	56	43.8	3		1	4	45.7
40 / 44	47	22	32	101	38.2	19	2	7	28	39.3	0			0	42.1
35 / 39	36	11	18	65	34.0	7	0	1	8	34.7					
30 / 34	22	4	9	35	29.5	1		0	1	29.7					
25 / 29	10	1	3	14	25.0										
20 / 24	3	0	1	4	20.5										
15 / 19	1		0	1	16.2										
10 / 14	0			0	13.0										
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 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		1	0	1	78.6		1	0	1	77.7					
95 / 99		7	1	8	78.4		4	1	5	77.2		0		0	77.3
90 / 94		27	8	35	76.6		16	4	20	77.5		4	1	5	75.2
85 / 89	1	52	21	74	74.4	0	36	13	49	75.1		17	3	20	72.1
80 / 84	7	70	48	125	71.8	3	63	32	98	71.9	0	34	11	45	69.1
75 / 79	36	51	58	145	70.0	24	65	53	142	69.7	3	40	24	67	67.0
70 / 74	78	29	65	171	67.7	66	42	69	178	67.5	26	48	40	114	65.1
65 / 69	69	9	32	110	63.8	68	15	44	127	63.7	40	41	45	126	61.5
60 / 64	41	2	14	57	59.4	52	4	24	80	59.4	41	29	45	115	57.2
55 / 59	14	0	2	16	55.2	26	1	8	35	55.2	46	16	32	94	53.2
50 / 54	3		0	3	50.7	8		1	9	50.8	42	8	26	76	49.1
45 / 49	0			0	47.0	1		0	1	46.3	24	1	10	35	44.7
40 / 44						0			0	42.5	10	0	4	14	40.4
35 / 39											5		1	6	35.9
30 / 34											1		0	1	31.4
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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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		1		1	67.2										
80 / 84		5	0	5	66.2										
75 / 79		12	2	14	63.7		0		0	62.6					
70 / 74	1	27	9	37	61.3		3	0	3	60.8		0		0	65.0
65 / 69	7	33	21	61	59.0	0	7	3	10	59.8	0	1	0	1	61.6
60 / 64	20	43	35	98	55.6	5	16	11	32	56.9	1	2	1	4	57.9
55 / 59	31	41	40	112	51.2	14	23	16	53	52.5	2	5	2	9	52.7
50 / 54	41	39	47	127	47.2	17	28	22	67	47.2	3	8	4	15	47.8
45 / 49	44	27	40	111	43.0	19	30	29	78	42.9	5	13	8	26	43.6
40 / 44	44	14	30	88	39.1	32	39	37	108	38.7	10	20	16	46	38.8
35 / 39	34	4	19	57	34.8	40	40	42	122	34.2	29	48	40	117	34.5
30 / 34	20	0	6	26	30.6	49	31	43	123	29.7	55	52	59	166	30.3
25 / 29	5	0	1	6	26.0	35	14	22	71	25.2	43	35	39	117	25.4
20 / 24	1		0	1	21.7	16	6	10	32	20.5	31	22	27	80	20.5
15 / 19						9	2	4	15	16.1	23	14	17	54	15.7
10 / 14						3	1	2	6	11.1	16	12	15	43	10.7
5 / 9						1	0	1	2	6.3	9	7	9	25	6.0
0 / 4						0	0	0	0	1.3	9	4	5	18	1.3
-5 / -1						0			0	-2.3	4	2	3	9	-3.0
-10 / -6											5	2	2	9	-7.3
-15 / -11											2	1	1	4	-12.3
-20 / -16											1	0	0	1	-16.8
-25 / -21											0			0	-21.0

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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		2	0	2	77.7
95 / 99		13	3	16	77.6
90 / 94		59	14	73	76.3
85 / 89	1	154	52	207	73.5
80 / 84	13	267	131	411	70.4
75 / 79	83	273	206	562	68.0
70 / 74	231	258	287	776	65.4
65 / 69	281	206	258	745	61.4
60 / 64	281	201	247	729	56.8
55 / 59	249	173	200	623	52.0
50 / 54	223	172	200	596	47.3
45 / 49	198	163	184	546	42.9
40 / 44	209	178	195	583	38.6
35 / 39	243	208	223	674	34.3
30 / 34	284	200	248	732	30.0
25 / 29	204	134	159	498	25.1
20 / 24	133	89	106	328	20.4
15 / 19	90	59	68	217	15.6
10 / 14	63	47	55	165	10.7
5 / 9	44	29	39	112	5.9
0 / 4	41	19	24	84	1.2
-5 / -1	21	6	11	38	-3.0
-10 / -6	15	6	6	27	-7.4
-15 / -11	7	2	3	12	-12.2
-20 / -16	3	1	1	5	-17.1
-25 / -21	1			1	-20.9

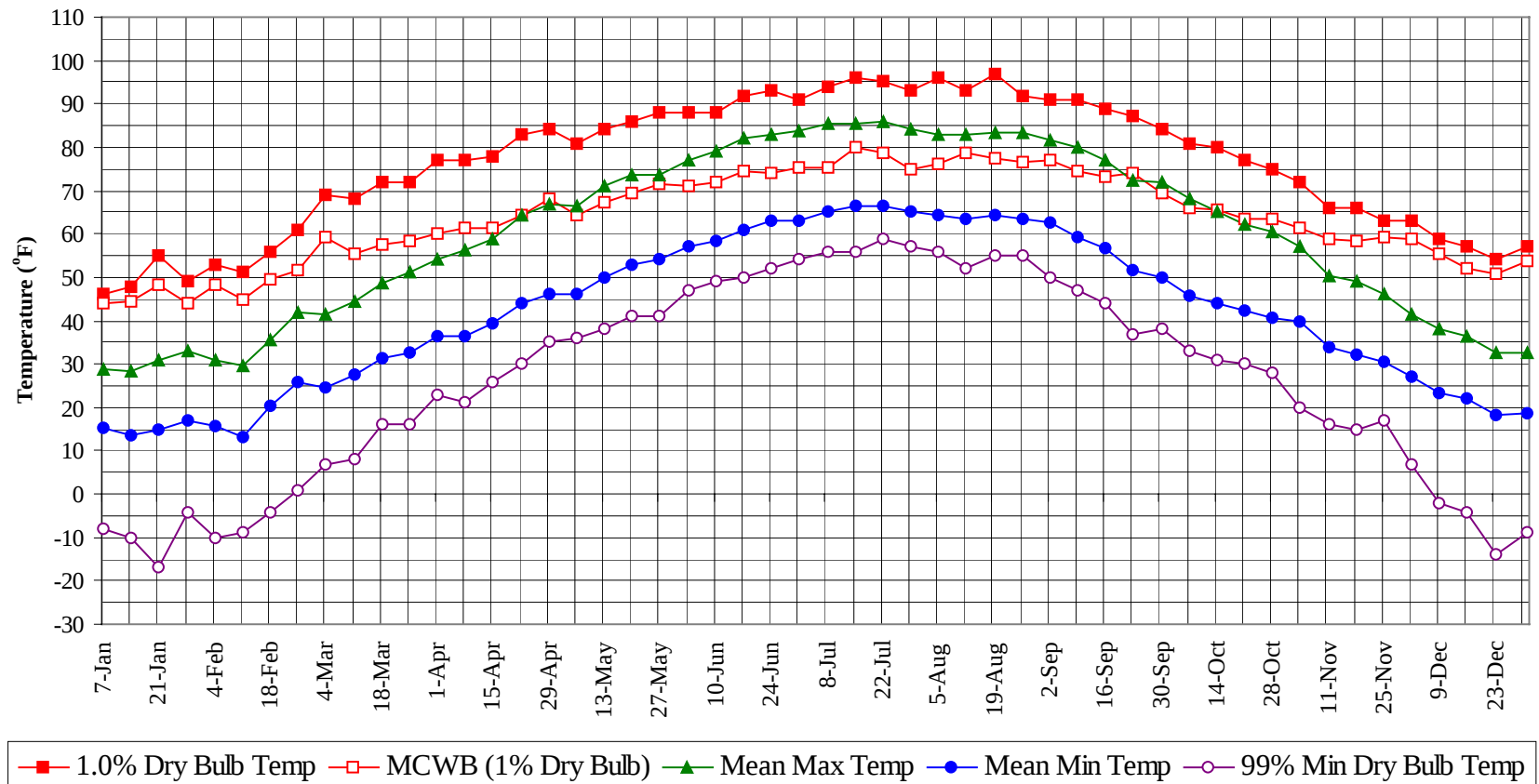
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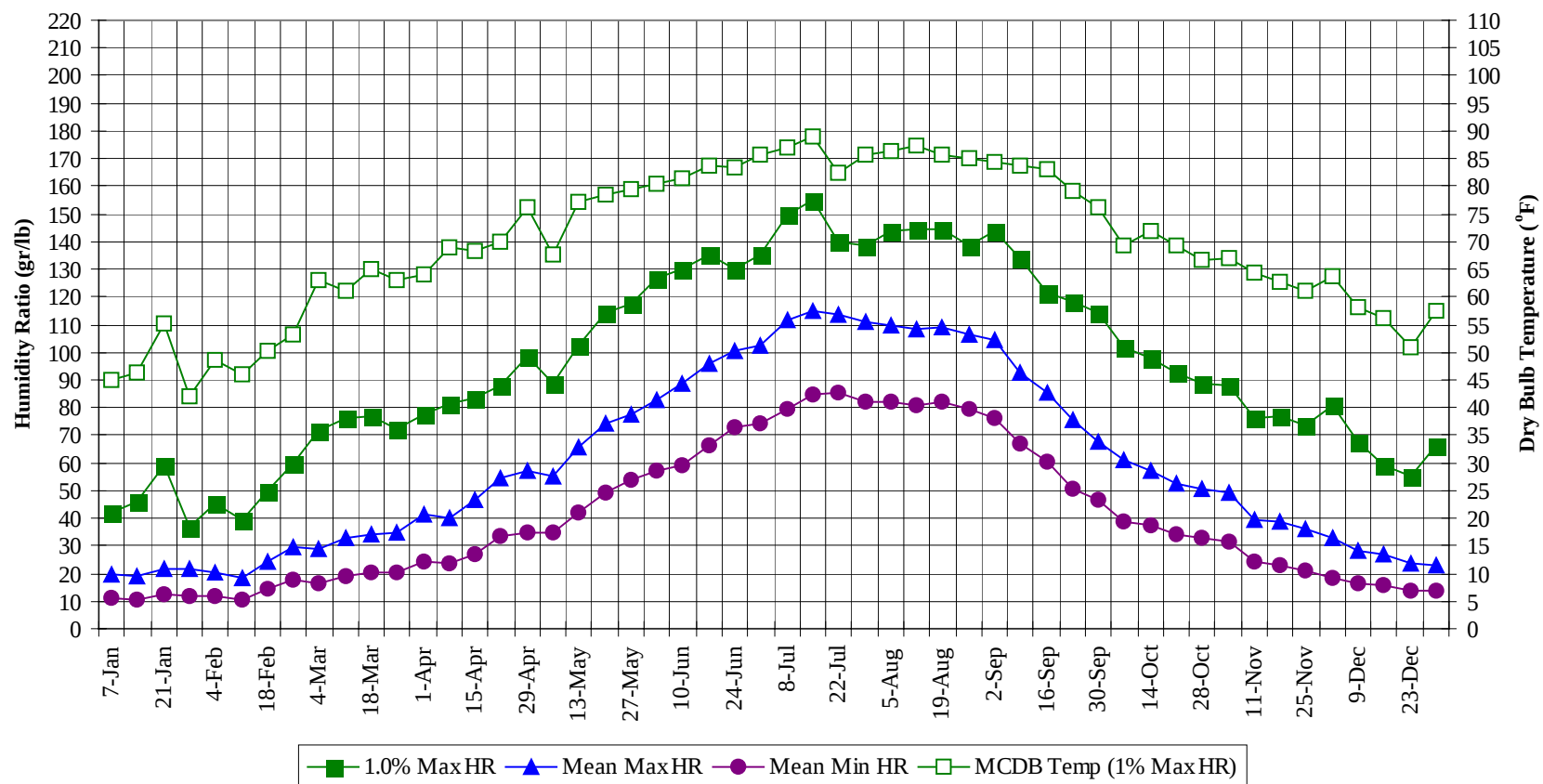
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Annual Summary of Temperatures

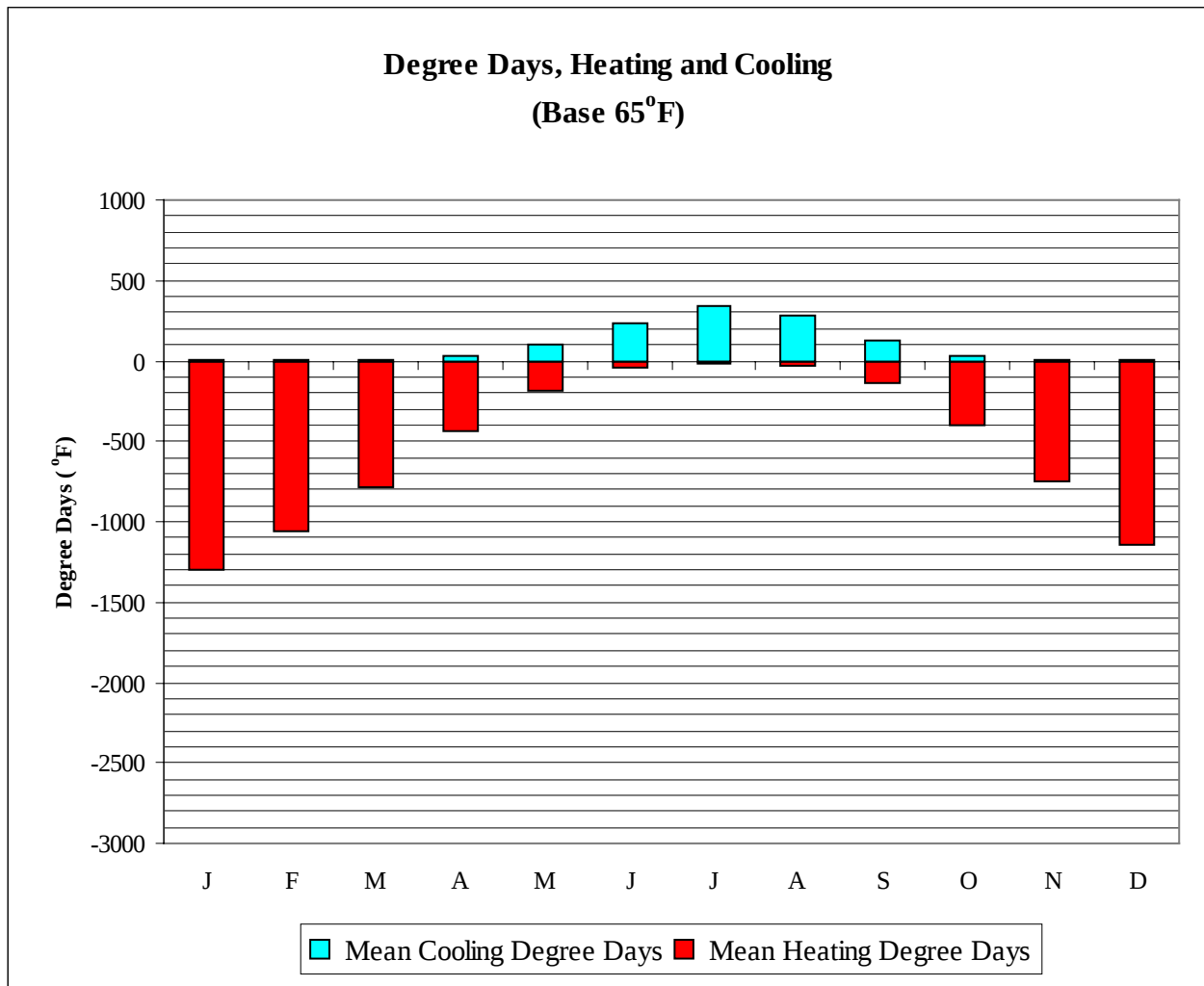


Long Term Humidity and Dry Bulb Temperature Summary



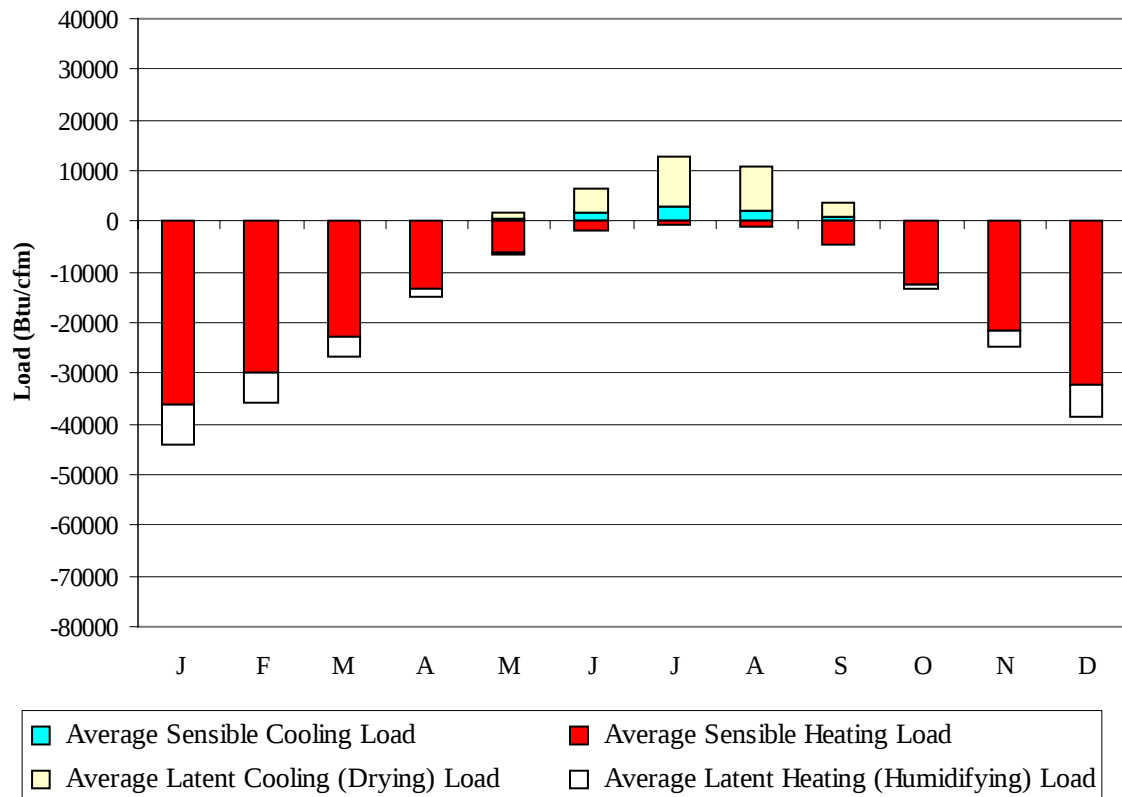
PEORIA**IL****WMO No. 725320****Long Term Dry Bulb Temperature and Humidity Summary**

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	46.0	43.8	28.9	15.2	-8.0	42.0	44.9	19.8	11.4
14-Jan	48.0	44.6	28.2	13.4	-10.0	46.2	46.2	19.3	10.5
21-Jan	55.0	48.3	30.9	14.8	-17.0	58.8	55.2	21.8	12.4
28-Jan	49.0	44.2	33.0	17.1	-4.0	37.1	42.0	21.9	12.1
4-Feb	53.0	48.1	31.1	15.7	-10.0	45.5	48.7	20.7	11.8
11-Feb	51.0	44.8	29.6	13.2	-9.0	39.2	46.0	18.7	10.4
18-Feb	56.0	49.4	35.4	20.2	-4.0	49.7	50.2	24.4	14.4
25-Feb	61.0	51.7	41.9	25.8	1.0	59.5	53.1	29.8	18.0
4-Mar	69.0	59.1	41.7	24.7	7.0	71.4	63.1	28.7	16.4
11-Mar	68.0	55.4	44.6	27.4	8.0	76.3	61.2	32.9	19.1
18-Mar	72.0	57.4	48.5	31.2	16.0	77.0	65.1	33.9	20.5
25-Mar	72.0	58.2	51.1	32.4	16.0	72.1	62.9	35.1	20.5
1-Apr	77.0	60.1	54.3	36.6	23.0	77.7	64.1	41.3	24.6
8-Apr	77.0	61.2	56.4	36.3	21.0	81.2	68.9	40.2	23.7
15-Apr	78.0	61.3	58.8	39.4	26.0	83.3	68.4	46.5	27.0
22-Apr	83.0	64.5	64.2	44.1	30.0	88.2	69.9	54.2	33.5
29-Apr	84.0	68.0	66.9	46.0	35.0	98.7	76.0	57.2	34.5
6-May	81.0	64.2	66.5	46.3	36.0	88.9	67.6	55.2	35.0
13-May	84.0	67.2	71.1	49.9	38.0	102.2	77.2	65.5	42.1
20-May	86.0	69.5	73.8	52.8	41.0	114.1	78.4	74.0	49.4
27-May	88.0	71.6	73.6	54.2	41.0	117.6	79.4	77.5	53.7
3-Jun	88.0	71.1	77.0	57.1	47.0	126.7	80.5	82.7	57.4
10-Jun	88.0	72.1	79.2	58.5	49.0	130.2	81.6	88.7	59.4
17-Jun	92.0	74.5	82.2	61.1	50.0	135.1	83.8	95.7	66.3
24-Jun	93.0	74.2	83.0	63.0	52.0	130.2	83.5	100.3	72.8
1-Jul	91.0	75.4	83.8	63.1	54.0	135.1	85.6	102.4	73.9
8-Jul	94.0	75.5	85.6	65.2	56.0	149.8	87.0	111.4	79.5
15-Jul	96.0	80.2	85.6	66.6	56.0	154.7	89.0	115.0	84.8
22-Jul	95.0	78.6	85.8	66.6	59.0	140.0	82.5	113.6	85.4
29-Jul	93.0	74.9	84.2	65.0	57.0	138.6	85.6	110.8	82.2
5-Aug	96.0	76.3	83.1	64.3	56.0	143.5	86.4	110.0	82.0
12-Aug	93.0	78.6	82.9	63.5	52.0	144.2	87.3	108.1	80.6
19-Aug	97.0	77.3	83.3	64.5	55.0	144.2	85.8	108.9	82.3
26-Aug	92.0	76.6	83.3	63.4	55.0	138.6	85.1	106.5	79.5
2-Sep	91.0	77.0	81.8	62.6	50.0	143.5	84.5	104.1	76.4
9-Sep	91.0	74.6	79.9	59.1	47.0	133.7	83.7	92.9	66.9
16-Sep	89.0	73.3	77.2	56.7	44.0	121.8	83.2	85.3	60.4
23-Sep	87.0	74.0	72.3	51.5	37.0	118.3	79.1	75.8	50.7
30-Sep	84.0	69.2	71.8	49.8	38.0	114.1	76.2	68.0	46.9
7-Oct	81.0	66.0	68.1	45.7	33.0	101.5	69.3	61.1	38.8
14-Oct	80.0	65.5	65.3	44.2	31.0	98.0	71.8	57.4	37.3
21-Oct	77.0	63.6	62.2	42.3	30.0	92.4	69.3	52.3	33.9
28-Oct	75.0	63.6	60.5	40.8	28.0	88.9	66.7	50.3	32.5
4-Nov	72.0	61.5	57.1	39.8	20.0	88.2	67.1	49.3	31.4
11-Nov	66.0	58.9	50.5	33.9	16.0	76.3	64.3	39.2	24.6
18-Nov	66.0	58.2	49.2	32.1	15.0	77.0	62.8	38.7	22.8
25-Nov	63.0	59.3	46.1	30.3	17.0	73.5	60.9	35.9	21.0
2-Dec	63.0	58.8	41.3	26.9	7.0	80.5	63.7	32.8	18.5
9-Dec	59.0	55.6	38.2	23.2	-2.0	67.9	58.1	28.4	16.4
16-Dec	57.0	52.2	36.5	21.9	-4.0	58.8	56.2	26.7	15.8
23-Dec	54.0	50.8	32.5	18.3	-14.0	55.3	50.8	23.4	13.5
31-Dec	57.0	53.9	32.5	18.5	-9.0	66.5	57.4	23.3	13.8



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1305
FEB	0	1062
MAR	6	787
APR	28	433
MAY	97	181
JUN	236	42
JUL	336	12
AUG	277	25
SEP	130	134
OCT	26	399
NOV	2	748
DEC	0	1146
ANN	1137	6274

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	-36246	0	-7861
FEB	0	-29712	0	-6177
MAR	14	-22748	10	-3976
APR	117	-13289	117	-1615
MAY	518	-6272	1209	-277
JUN	1776	-1798	4537	-5
JUL	2959	-686	9635	0
AUG	2117	-1202	8480	0
SEP	779	-4732	2810	-66
OCT	67	-12464	225	-882
NOV	0	-21682	12	-3232
DEC	0	-32120	1	-6237
ANN	8347	-182951	27036	-30328

Average Annual Solar Radiation – Nearest Available Site

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

City: PEORIA
 State: IL
 WBAN No: 14842
 Lat(N): 40.67
 Long(W): 89.68
 Elev(ft): 653

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.553
 Vert Gap: 0.323

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	620	880	1140	1520	1830	2030	1990	1760	1400	1030	640	510	1280
	Std Dev	46	60	82	126	160	115	102	97	110	83	61	50	39
	Minimum	500	770	970	1290	1400	1820	1820	1540	1210	850	520	420	1210
	Maximum	680	1010	1340	1750	2160	2270	2200	1920	1690	1170	780	600	1390
	Diffuse	320	440	600	710	800	840	820	730	580	430	340	290	570
Clear Day	Global	860	1210	1700	2190	2510	2620	2540	2260	1810	1320	910	750	1730
NORTH	Global	200	270	350	440	550	630	600	480	370	280	210	170	380
	Diffuse	200	270	350	430	500	530	520	460	370	280	210	170	360
Clear Day	Global	180	240	320	430	580	680	630	480	360	270	190	160	380
EAST	Global	420	570	700	900	1050	1130	1120	1010	850	660	420	340	770
	Diffuse	240	330	420	520	600	640	630	570	460	350	250	210	430
Clear Day	Global	660	860	1120	1340	1450	1470	1440	1340	1150	900	680	580	1080
SOUTH	Global	990	1100	1000	960	860	820	860	980	1120	1180	920	830	970
	Diffuse	350	430	490	540	570	580	580	570	510	440	340	300	480
Clear Day	Global	1850	1930	1800	1450	1110	960	1020	1270	1610	1830	1810	1750	1530
WEST	Global	420	560	690	880	1030	1130	1120	1030	860	660	420	340	760
	Diffuse	240	330	430	530	610	650	640	580	470	350	250	210	440
Clear Day	Global	660	860	1120	1340	1450	1470	1440	1340	1150	900	680	580	1080

Average Annual Solar Heat and Illumination – Nearest Available Site

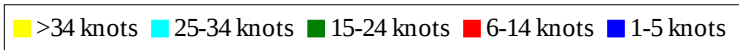
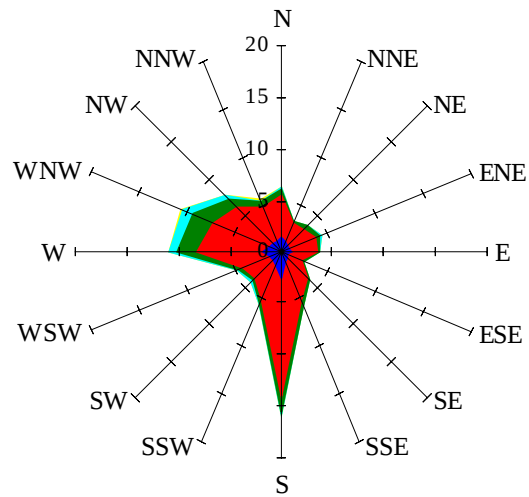
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	400	600	800	1090	1320	1480	1450	1270	1000	710	420	330	910
NORTH	Unshaded	140	190	240	300	360	410	390	320	260	200	140	120	260
	Shaded	120	160	210	260	320	360	350	290	230	170	120	100	230
EAST	Unshaded	290	400	490	640	750	800	800	720	600	470	290	230	540
	Shaded	260	350	420	550	630	680	670	610	520	410	250	210	460
SOUTH	Unshaded	750	800	700	630	540	500	520	620	760	850	690	630	660
	Shaded	720	740	550	410	350	360	360	390	540	750	660	610	530
WEST	Unshaded	290	390	480	620	730	810	800	740	610	470	290	230	540
	Shaded	260	350	420	530	620	680	680	630	530	410	260	210	460

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	71	79	61	23	49	85	102	95	67
	M.Cloudy	22	42	48	37	15	33	60	72	70	48
NORTH	M.Clear	10	14	15	13	7	17	16	17	17	15
	M.Cloudy	9	15	17	14	6	14	18	19	19	15
EAST	M.Clear	73	55	15	13	7	79	72	30	17	15
	M.Cloudy	24	28	17	14	6	39	47	26	19	15
SOUTH	M.Clear	41	75	83	65	24	12	34	49	43	21
	M.Cloudy	16	34	41	30	10	12	27	37	35	18
WEST	M.Clear	10	14	25	66	59	12	16	17	54	79
	M.Cloudy	9	15	20	31	19	12	18	19	41	49
M.Clear	(% hrs)	28	26	23	22	25	41	38	32	31	36
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	29	67	84	75	45	14	39	44	26	0
	M.Cloudy	16	40	54	51	29	8	23	26	15	0
NORTH	M.Clear	9	14	16	15	11	5	10	10	8	0
	M.Cloudy	7	14	17	16	11	4	9	10	7	0
EAST	M.Clear	66	69	26	15	11	39	37	10	8	0
	M.Cloudy	21	33	22	16	11	9	16	10	7	0
SOUTH	M.Clear	23	59	77	69	38	37	80	87	59	1
	M.Cloudy	10	30	43	40	21	9	26	30	17	0
WEST	M.Clear	9	14	16	54	73	5	10	23	47	1
	M.Cloudy	7	14	17	34	34	4	9	14	15	0
M.Clear	(% hrs)	46	45	39	39	42	28	27	26	27	30

Wind Summary - December, January, and February

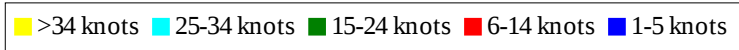
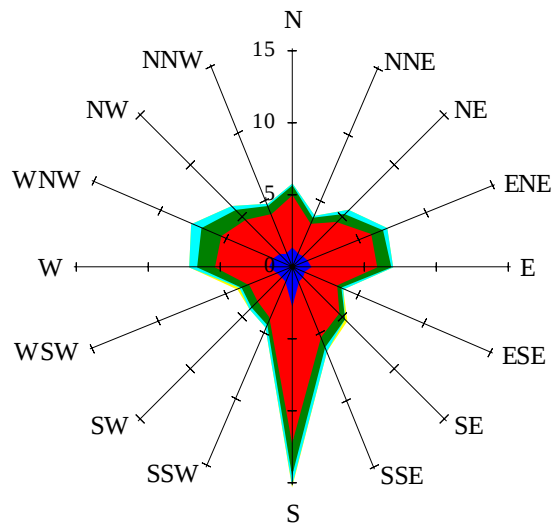
Labels of Percent Frequency on North Axis



Percent Calm = 2.92

Wind Summary - March, April, and May

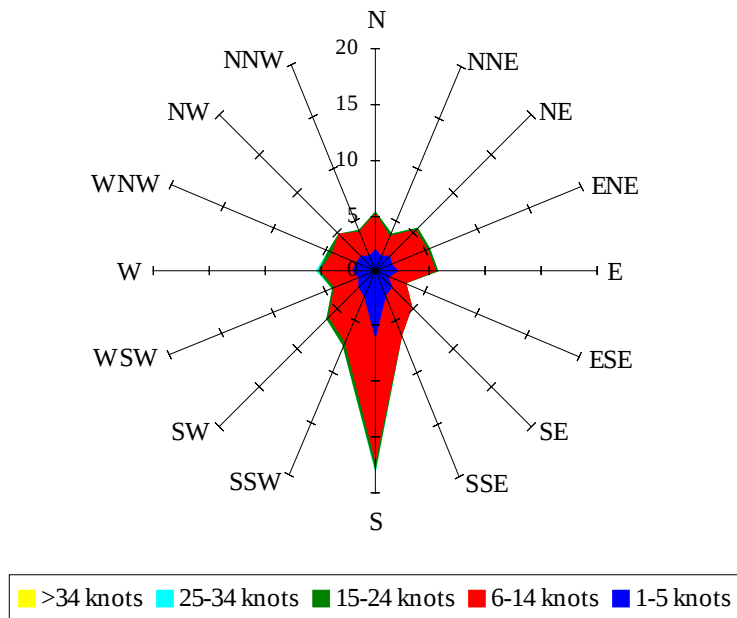
Labels of Percent Frequency on North Axis



Percent Calm = 3.85

Wind Summary - June, July, and August

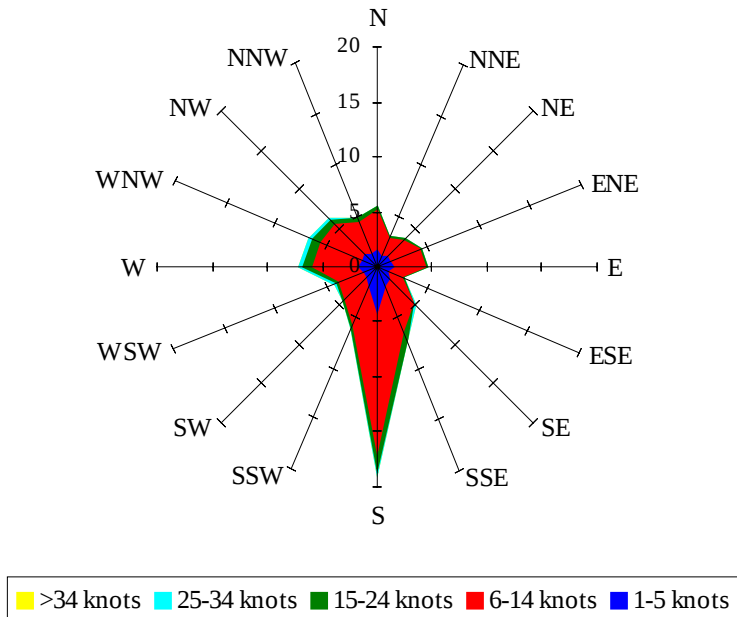
Labels of Percent Frequency on North Axis



Percent Calm = 7.39

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 6.20