

BURLINGTON IA

Latitude = 40.78 N

Longitude = 91.13 W

Period of Record = 1973 to 1996

WMO No. 725455

Elevation = 699 feet

Average Pressure = 29.26 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	114	10.5	S
0.4% Occurrence	93	77	116	10.4	SSW
1.0% Occurrence	90	76	114	10.2	S
2.0% Occurrence	87	74	109	9.9	S
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	7	6	5	9.7	NW
99.0% Occurrence	0	-1	4	9.6	NW
99.6% Occurrence	-5	-6	3	9.4	NW
Median of Extreme Lows	-11	-12	2	10.8	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	81	91	144	9.8	S
0.4% Occurrence	79	89	134	9.5	S
1.0% Occurrence	78	88	130	9.3	S
2.0% Occurrence	76	85	123	9.1	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	155	88	1.00	8.9	S
0.4% Occurrence	139	86	0.90	8.8	S
1.0% Occurrence	131	83	0.85	8.8	S
2.0% Occurrence	126	82	0.82	8.1	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		42	744	532	1464

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	2.2 + 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 (#)
53.9	64	17	53

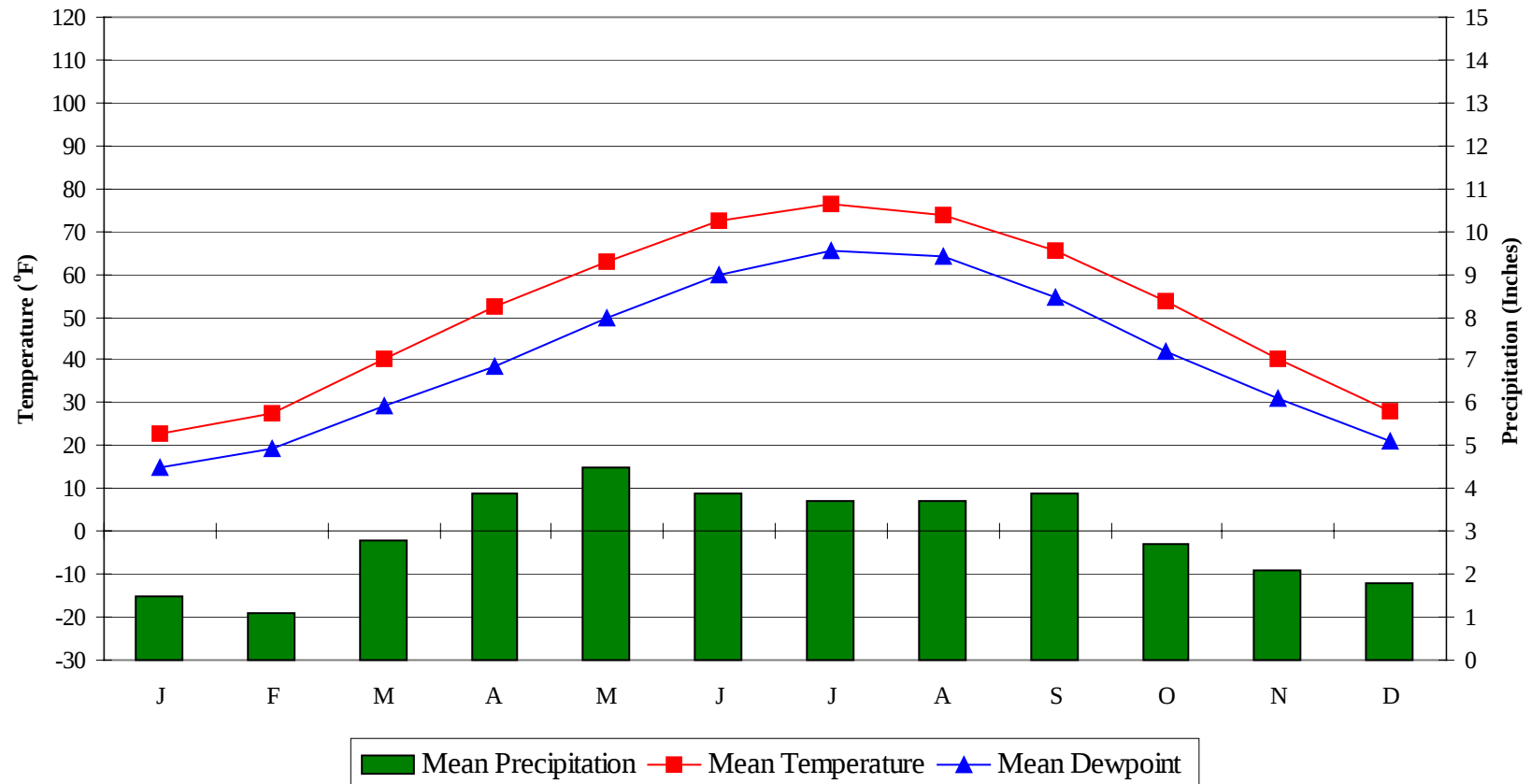
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

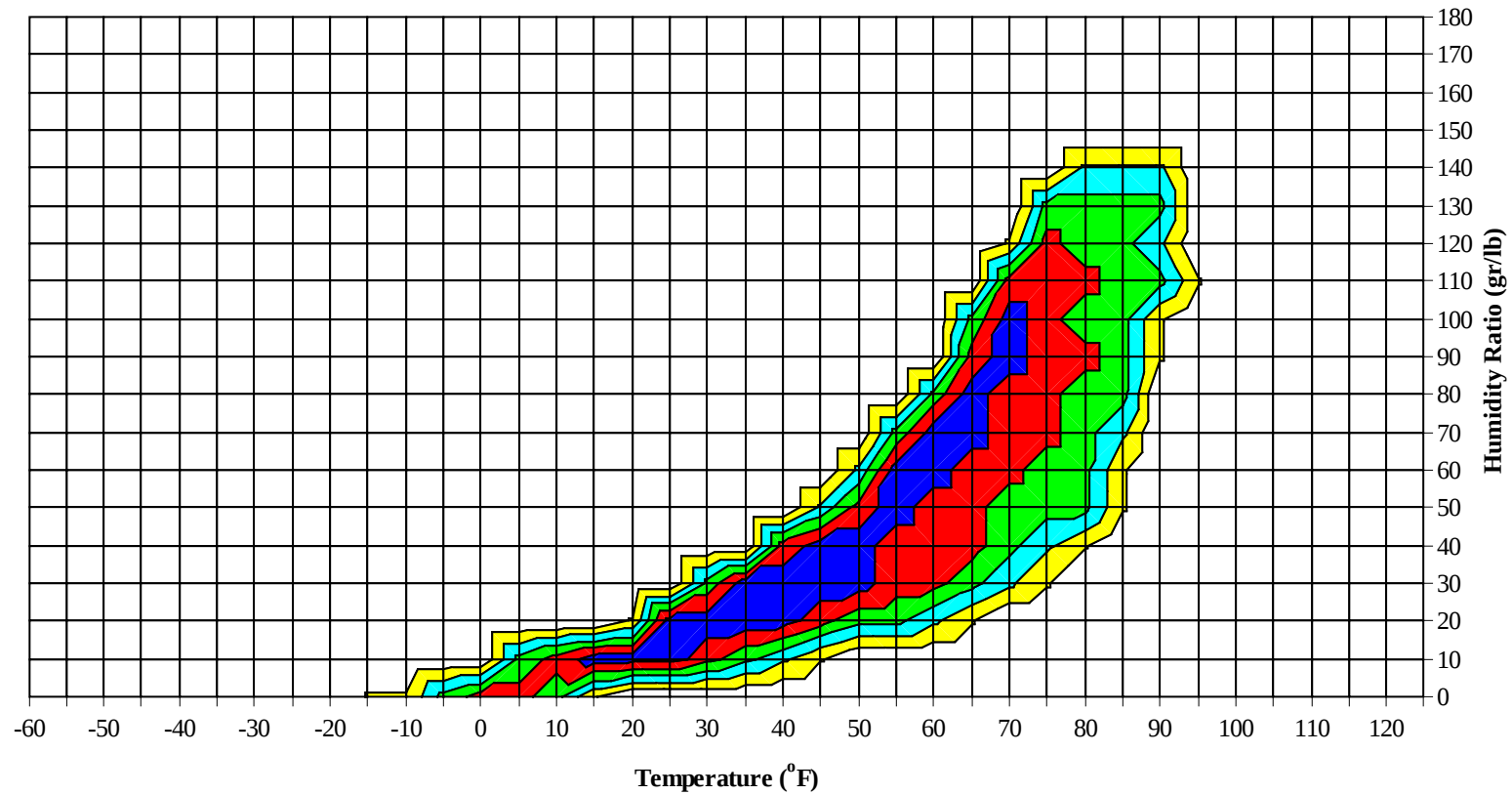


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Long Term Psychrometric Summary



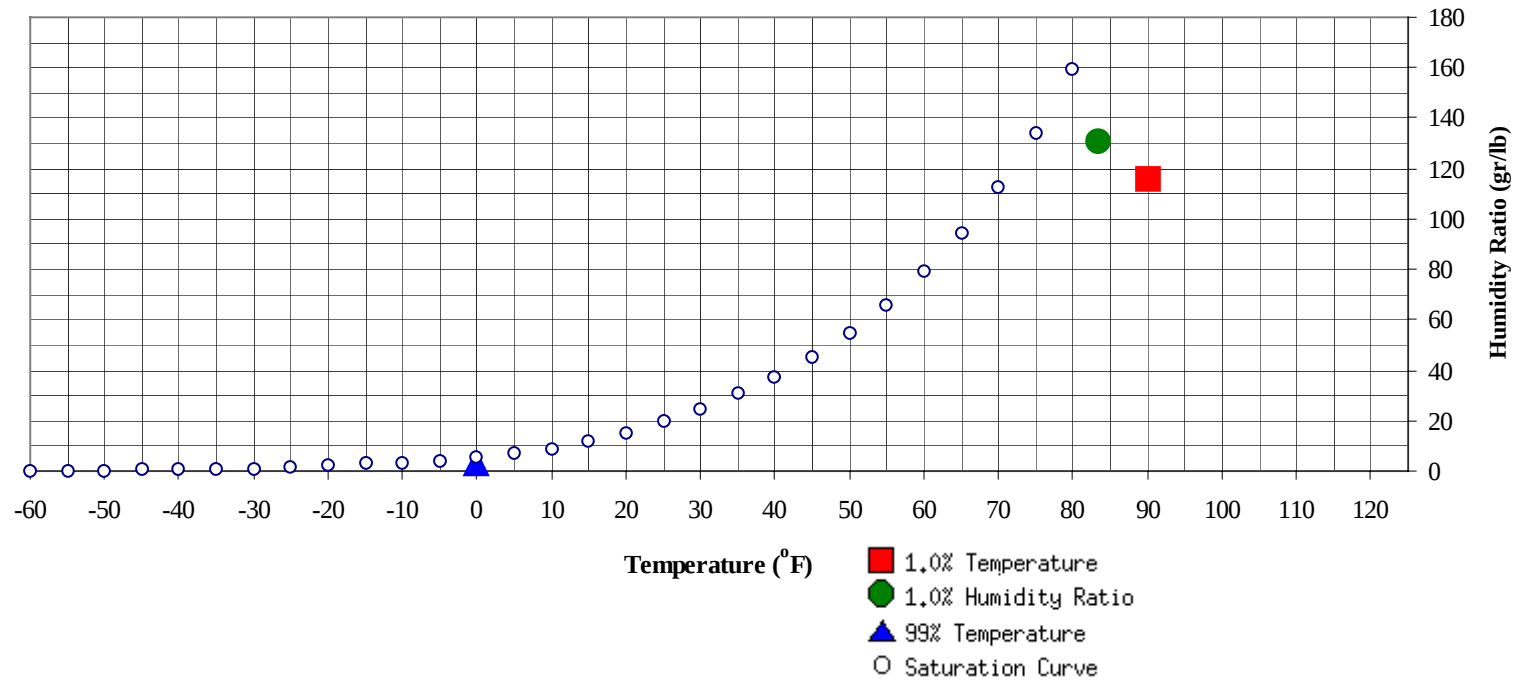
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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	3.5	0.5		130.9	83.5	76.5	74	40.6

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	90	115.8	75.9	39.8

BURLINGTON IA WMO No. 725455
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	62.0
80 / 84												1	0	1	62.8
75 / 79												3	1	4	60.5
70 / 74		0		0	51.0		0		0	52.5		6	3	9	58.1
65 / 69		0	0	0	49.8		1	0	1	54.4		1	9	6	56.5
60 / 64		1	0	1	53.3		4	1	5	50.8		6	15	11	53.5
55 / 59	0	2	1	3	50.4	1	6	2	9	48.6	7	18	17	42	49.3
50 / 54	1	5	2	8	45.6	1	9	6	16	45.2	12	25	21	57	45.3
45 / 49	2	8	5	15	41.8	3	16	11	31	41.3	18	34	31	83	41.5
40 / 44	4	17	12	33	37.5	12	23	22	57	37.9	37	40	41	118	37.8
35 / 39	19	29	28	75	33.9	22	30	31	83	33.9	45	40	40	125	33.5
30 / 34	41	45	44	130	29.8	50	39	43	132	29.9	49	29	37	115	29.3
25 / 29	37	37	40	113	25.0	33	28	30	92	24.8	31	16	23	69	24.5
20 / 24	33	28	28	89	20.2	25	22	24	72	19.9	23	9	10	42	19.9
15 / 19	25	24	23	72	15.4	19	16	17	51	15.4	8	3	5	16	15.2
10 / 14	24	19	23	66	10.5	18	14	13	44	10.5	6	2	2	10	10.7
5 / 9	19	16	18	53	5.8	13	9	12	33	5.9	3	0	1	4	6.0
0 / 4	19	10	14	42	1.0	12	5	7	23	1.1	1	0	0	1	1.4
-5 / -1	12	4	6	21	-3.2	9	2	3	14	-3.0	0	0	0	0	-3.2
-10 / -6	7	3	3	13	-7.3	4	1	1	6	-7.3	0			0	-6.9
-15 / -11	3	1	2	6	-12.6	1	0	0	1	-12.2					
-20 / -16	2	0	1	3	-17.1	1	0	0	1	-17.4					
-25 / -21	0			0	-20.0	0	0	0	0	-21.5					
-30 / -26						0			0	-25.0					

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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WMO No. 725455

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	75.0
95 / 99												1	1	2	74.6
90 / 94							1	0	1	71.6		12	3	15	74.3
85 / 89		1	0	1	67.3		10	2	12	70.3	0	35	14	49	72.5
80 / 84		8	2	10	64.6		23	10	33	67.7	3	58	35	97	69.6
75 / 79	0	11	6	17	62.3	2	34	21	57	64.4	21	58	50	129	67.2
70 / 74	1	17	13	31	59.1	13	45	36	94	61.9	56	40	58	154	65.1
65 / 69	9	26	19	54	56.4	34	47	49	130	59.2	64	21	42	127	61.7
60 / 64	18	35	31	84	53.4	47	41	51	138	55.8	55	10	25	89	57.5
55 / 59	24	37	35	96	49.2	52	27	40	119	51.6	30	4	9	43	53.5
50 / 54	35	35	42	113	45.7	49	13	24	86	47.4	11	1	2	14	49.1
45 / 49	48	30	36	114	42.0	30	6	11	47	43.2	1		0	1	45.0
40 / 44	44	21	27	92	37.8	15	2	4	21	38.7	0			0	42.7
35 / 39	31	12	17	61	33.8	4	0	0	4	33.8					
30 / 34	20	4	8	32	29.3	1			1	30.1					
25 / 29	7	2	2	11	24.9										
20 / 24	2	0	1	3	19.9										
15 / 19	0	0		0	15.7										
10 / 14	0			0	11.8										
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															

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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	77.3		1	0	1	78.5					
95 / 99		8	2	10	77.9		4	1	5	77.7		1	0	1	74.6
90 / 94		26	9	36	76.6		16	5	21	78.0		4	1	5	75.2
85 / 89	1	52	24	77	74.4	0	38	14	52	75.1		16	4	20	72.9
80 / 84	11	71	52	134	72.0	5	60	37	102	72.3	0	32	12	44	69.7
75 / 79	45	52	65	161	69.9	27	62	56	145	69.9	6	41	27	74	67.6
70 / 74	82	27	55	165	67.5	67	44	67	178	67.3	25	44	40	109	64.9
65 / 69	62	9	30	101	63.5	72	18	44	134	63.5	44	43	46	133	61.2
60 / 64	37	2	9	48	59.3	52	5	19	76	59.0	46	32	43	121	56.8
55 / 59	9	0	1	10	54.6	20	1	4	25	54.7	46	17	33	95	52.8
50 / 54	1		0	1	51.7	5		1	6	50.2	38	9	21	68	48.6
45 / 49						0		0	0	45.9	21	2	8	31	44.2
40 / 44						0			0	42.0	9	0	3	12	39.8
35 / 39											4		1	5	35.3
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															
-30 / -26															

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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	0	1	67.3										
80 / 84		5	1	6	66.7										
75 / 79	0	15	3	18	63.6		0		0	64.2					
70 / 74	1	26	10	38	61.0		3	0	3	60.3					
65 / 69	8	35	22	66	58.4	0	8	3	11	59.2	0	0	0	0	61.7
60 / 64	20	40	36	97	54.9	4	16	11	31	56.2	0	2	1	3	57.9
55 / 59	38	42	43	123	50.9	12	22	15	49	51.5	1	4	2	7	51.1
50 / 54	40	40	44	124	46.5	17	30	23	70	46.3	4	8	4	16	47.0
45 / 49	48	24	38	110	42.7	18	29	30	77	42.2	4	13	6	23	42.2
40 / 44	42	15	30	87	38.5	32	38	36	106	38.0	10	22	19	52	38.1
35 / 39	32	4	15	51	34.3	47	40	47	134	33.8	29	47	41	118	34.0
30 / 34	15	1	3	19	30.1	45	30	36	110	29.5	57	51	60	168	30.0
25 / 29	4	0	1	5	25.3	31	15	23	68	24.8	47	33	38	118	25.2
20 / 24	0			0	21.7	18	7	10	35	20.4	30	22	26	79	20.3
15 / 19						7	3	4	14	15.6	22	15	17	55	15.5
10 / 14						4	1	2	7	10.9	14	14	13	40	10.6
5 / 9						2	0	1	3	6.3	8	8	9	25	5.9
0 / 4						1	0	0	1	0.8	9	5	6	20	1.2
-5 / -1						0			0	-1.5	6	3	3	12	-3.2
-10 / -6											3	1	1	5	-7.6
-15 / -11											1	1	0	2	-12.1
-20 / -16											1	0	0	1	-16.3
-25 / -21											0	0		0	-21.0
-30 / -26															

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WMO No. 725455

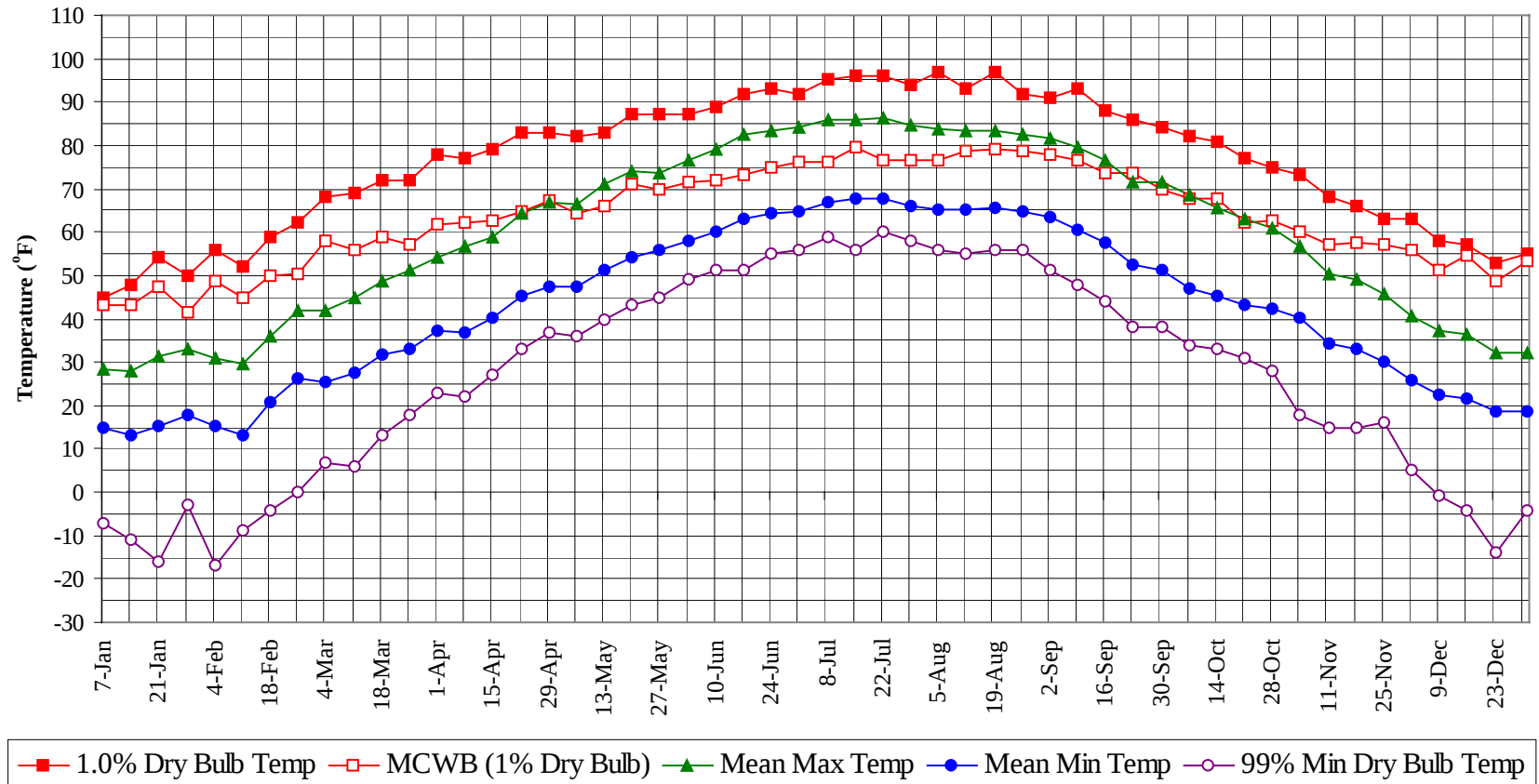
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

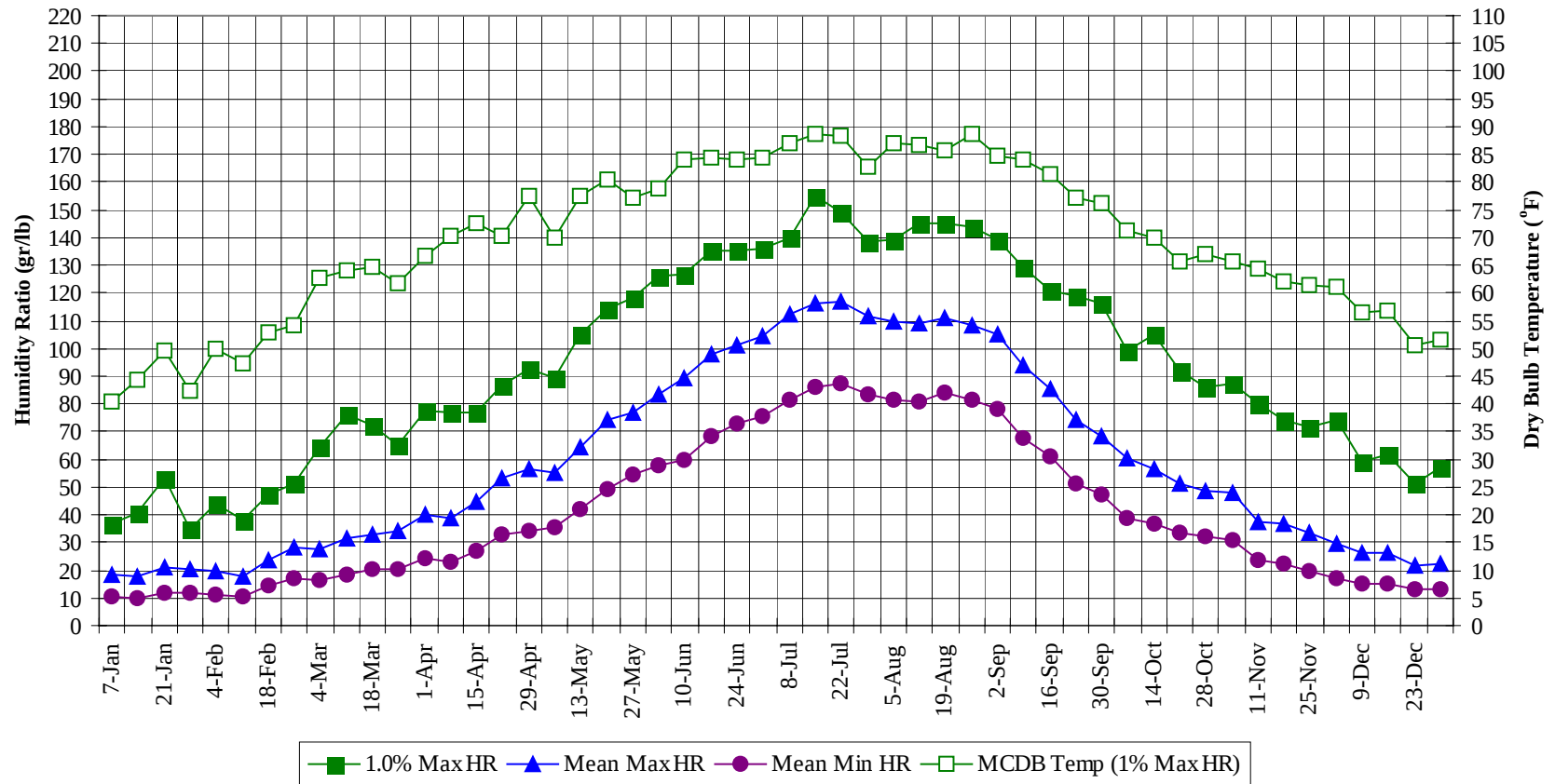
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		3	0	3	77.5
95 / 99		15	4	19	77.3
90 / 94		59	18	77	76.4
85 / 89	1	151	59	211	73.7
80 / 84	21	256	149	426	70.7
75 / 79	101	274	229	605	68.1
70 / 74	248	253	280	782	65.1
65 / 69	296	218	262	776	60.9
60 / 64	287	202	238	727	56.2
55 / 59	243	179	202	625	51.3
50 / 54	216	173	190	580	46.6
45 / 49	195	160	176	531	42.3
40 / 44	206	179	194	580	38.1
35 / 39	232	202	220	654	33.9
30 / 34	274	198	233	705	29.7
25 / 29	188	130	156	475	24.9
20 / 24	130	87	99	316	20.2
15 / 19	81	61	66	209	15.4
10 / 14	65	49	53	167	10.5
5 / 9	44	33	40	117	5.8
0 / 4	41	20	28	90	1.1
-5 / -1	26	9	12	46	-3.1
-10 / -6	14	5	5	24	-7.4
-15 / -11	5	3	2	10	-12.4
-20 / -16	4	1	1	6	-17.0
-25 / -21	1	0	0	1	-21.2
-30 / -26	0			0	-25.0

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



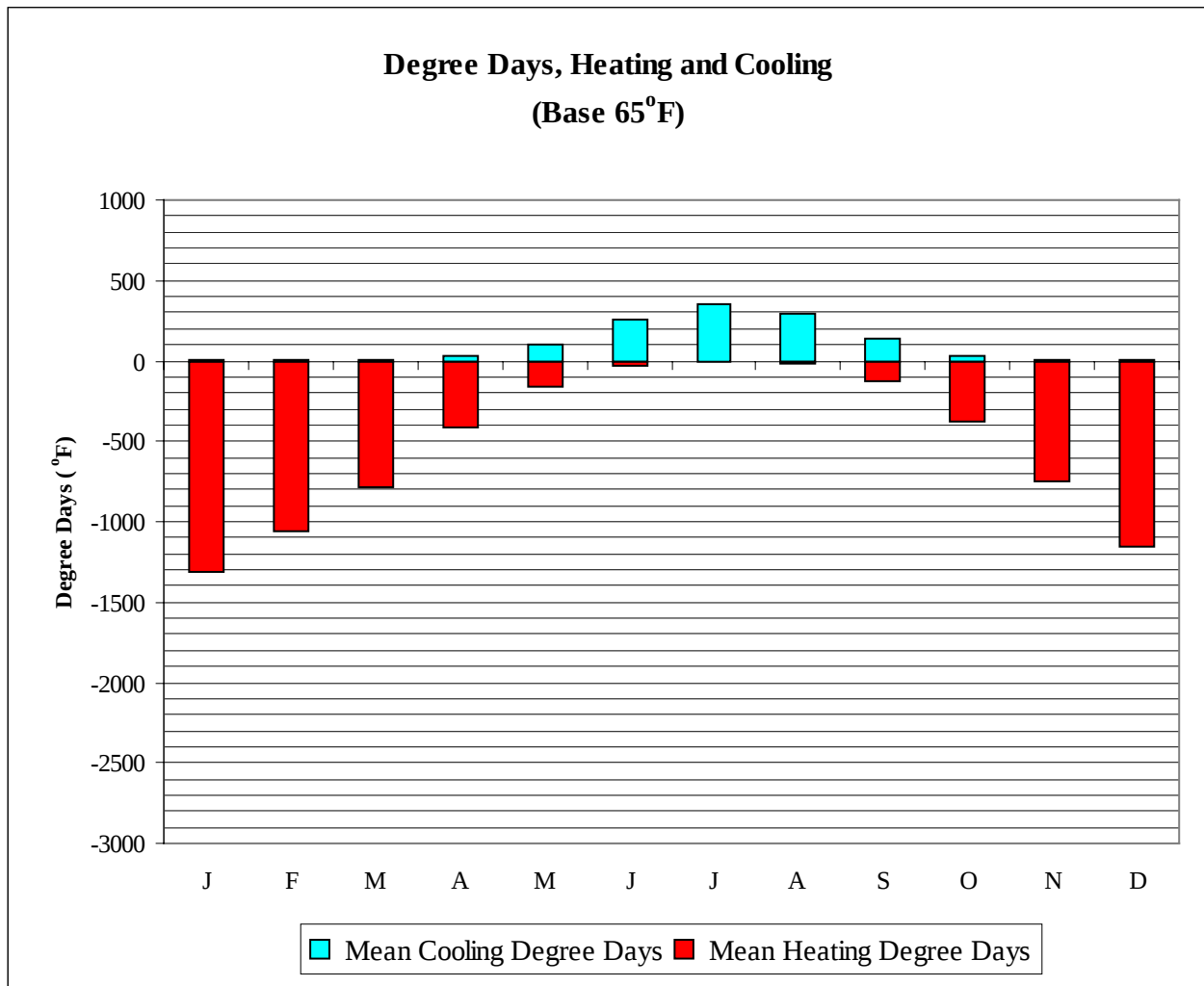
BURLINGTON**IA****WMO No. 725455****Long Term Dry Bulb Temperature and Humidity Summary**

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	45.0	43.3	28.5	14.7	-7.0	37.1	40.3	18.6	10.7
14-Jan	48.0	43.3	27.9	13.1	-11.0	40.6	44.3	17.7	9.7
21-Jan	54.0	47.4	31.3	15.2	-16.0	53.2	49.5	20.9	11.8
28-Jan	50.0	41.5	33.1	17.8	-3.0	35.0	42.4	20.6	11.7
4-Feb	56.0	48.5	30.9	15.3	-17.0	44.1	50.0	19.7	11.3
11-Feb	52.0	44.7	29.7	13.3	-9.0	37.8	47.3	18.0	10.3
18-Feb	59.0	50.1	36.0	20.6	-4.0	47.6	52.8	23.8	14.2
25-Feb	62.0	50.5	41.9	26.3	0.0	51.1	54.3	28.5	17.3
4-Mar	68.0	57.9	41.9	25.6	7.0	64.4	62.7	27.6	16.4
11-Mar	69.0	55.8	44.9	27.4	6.0	76.3	64.0	31.2	18.2
18-Mar	72.0	58.6	48.9	31.7	13.0	72.1	64.7	33.1	20.6
25-Mar	72.0	57.3	51.1	33.0	18.0	65.1	61.7	34.2	20.1
1-Apr	78.0	61.8	54.2	37.2	23.0	77.7	66.6	40.0	24.1
8-Apr	77.0	62.4	56.5	37.0	22.0	77.0	70.4	38.6	23.2
15-Apr	79.0	62.6	58.9	40.2	27.0	77.0	72.6	44.9	27.1
22-Apr	83.0	64.8	64.4	45.4	33.0	86.8	70.4	53.0	33.0
29-Apr	83.0	67.2	66.9	47.3	37.0	92.4	77.4	56.7	34.0
6-May	82.0	64.5	66.6	47.4	36.0	89.6	69.9	55.0	35.2
13-May	83.0	66.1	71.2	51.3	40.0	105.0	77.5	64.3	42.0
20-May	87.0	70.9	74.0	54.4	43.0	114.1	80.4	73.9	48.9
27-May	87.0	70.0	73.6	55.8	45.0	118.3	77.3	77.0	54.3
3-Jun	87.0	71.5	76.5	58.1	49.0	126.0	78.7	83.2	57.8
10-Jun	89.0	72.1	79.2	60.0	51.0	126.7	84.1	89.0	59.6
17-Jun	92.0	73.4	82.4	63.1	51.0	135.1	84.4	97.7	68.1
24-Jun	93.0	75.0	83.2	64.2	55.0	135.1	84.1	100.9	72.7
1-Jul	92.0	76.1	84.2	64.8	56.0	135.8	84.5	104.6	75.4
8-Jul	95.0	76.3	86.0	66.9	59.0	140.0	87.0	112.6	81.7
15-Jul	96.0	79.4	85.9	67.6	56.0	154.7	88.7	116.3	85.8
22-Jul	96.0	76.8	86.1	67.9	60.0	149.1	88.3	116.8	87.3
29-Jul	94.0	76.8	84.4	66.1	58.0	138.6	82.7	111.4	83.3
5-Aug	97.0	76.4	83.6	65.4	56.0	139.3	87.0	109.5	81.7
12-Aug	93.0	78.6	83.4	65.0	55.0	144.9	86.7	109.1	81.0
19-Aug	97.0	79.2	83.2	65.7	56.0	144.9	85.6	110.7	84.3
26-Aug	92.0	78.6	82.7	64.6	56.0	143.5	88.6	108.4	81.5
2-Sep	91.0	78.0	81.7	63.6	51.0	139.3	84.7	105.0	78.0
9-Sep	93.0	76.4	79.7	60.5	48.0	129.5	84.2	94.2	67.7
16-Sep	88.0	73.5	76.6	57.5	44.0	121.1	81.3	85.6	61.4
23-Sep	86.0	73.7	71.7	52.5	38.0	119.0	77.1	74.2	51.0
30-Sep	84.0	70.0	71.7	51.1	38.0	116.2	76.2	68.4	47.5
7-Oct	82.0	67.9	68.4	47.0	34.0	99.4	71.2	60.3	38.6
14-Oct	81.0	67.8	65.5	45.5	33.0	105.0	69.8	56.2	36.6
21-Oct	77.0	62.2	62.9	43.4	31.0	91.7	65.7	51.4	33.2
28-Oct	75.0	62.8	61.0	42.1	28.0	86.1	67.0	48.7	32.0
4-Nov	73.0	60.3	56.6	40.3	18.0	87.5	65.6	47.6	30.8
11-Nov	68.0	57.1	50.4	34.4	15.0	79.8	64.2	37.8	23.6
18-Nov	66.0	57.5	49.2	32.8	15.0	74.2	62.2	36.7	22.2
25-Nov	63.0	57.3	45.9	30.3	16.0	71.4	61.2	33.3	19.7
2-Dec	63.0	55.9	40.7	25.8	5.0	74.2	61.2	29.7	17.1
9-Dec	58.0	51.1	37.2	22.6	-1.0	58.8	56.5	26.2	15.2
16-Dec	57.0	54.5	36.3	21.6	-4.0	61.6	56.8	26.0	15.0
23-Dec	53.0	48.5	32.2	18.5	-14.0	51.1	50.4	22.0	13.2
31-Dec	55.0	53.1	32.3	18.7	-4.0	57.4	51.5	22.2	13.2

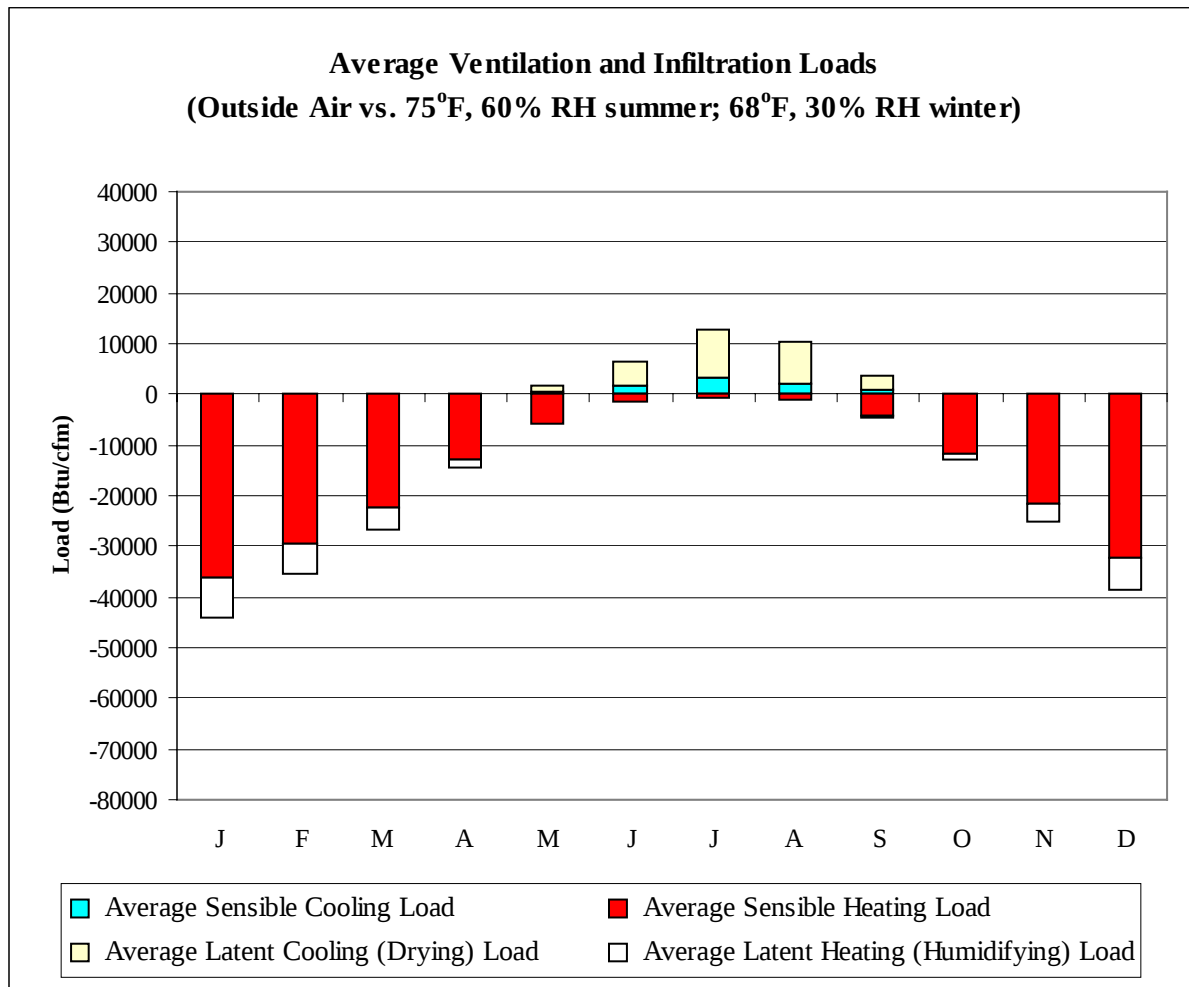
BURLINGTON

IA

WMO No. 725455



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1306
FEB	0	1054
MAR	6	780
APR	29	415
MAY	98	160
JUN	252	31
JUL	359	8
AUG	291	18
SEP	133	121
OCT	28	375
NOV	2	749
DEC	0	1152
ANN	1198	6169



	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	-36254	0	-7809
FEB	0	-29510	0	-6038
MAR	14	-22564	6	-3993
APR	116	-12815	60	-1600
MAY	488	-5671	1151	-301
JUN	1882	-1402	4559	-3
JUL	3209	-505	9555	0
AUG	2272	-955	8291	0
SEP	795	-4390	2819	-66
OCT	78	-11830	206	-982
NOV	0	-21727	10	-3461
DEC	0	-32279	0	-6134
ANN	8854	-179902	26657	-30387

Average Annual Solar Radiation – Nearest Available Site

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

City: MOLINE
 State: IL
 WBAN No: 14923
 Lat(N): 41.45
 Long(W): 90.52
 Elev(ft): 594

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.575
 Vert Gap: 0.326

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	600	870	1140	1500	1810	2020	1990	1750	1380	1000	620	490	1270
	Std Dev	49	60	84	114	148	105	122	102	109	77	56	43	39
	Minimum	480	750	980	1310	1500	1850	1720	1500	1190	840	490	420	1210
	Maximum	680	980	1310	1740	2170	2280	2200	1940	1670	1160	760	590	1390
	Diffuse	310	430	580	710	790	830	800	710	570	420	330	280	560
Clear Day	Global	840	1190	1680	2180	2510	2630	2540	2250	1800	1290	890	730	1710
NORTH	Global	190	260	350	440	550	630	590	480	370	280	200	170	370
	Diffuse	190	260	350	430	500	530	510	450	370	280	200	170	350
Clear Day	Global	170	240	320	420	570	680	620	470	350	260	180	160	370
EAST	Global	410	570	710	890	1040	1120	1120	1010	840	650	410	340	760
	Diffuse	230	320	420	520	590	630	620	560	450	340	240	200	430
Clear Day	Global	650	860	1120	1340	1460	1480	1450	1350	1160	900	680	580	1090
SOUTH	Global	1000	1110	1020	960	870	830	870	1000	1110	1170	920	840	970
	Diffuse	350	430	490	540	570	580	580	560	510	430	340	300	470
Clear Day	Global	1870	1950	1830	1470	1140	990	1040	1300	1640	1850	1830	1780	1550
WEST	Global	420	560	700	880	1030	1130	1130	1030	860	650	420	340	760
	Diffuse	240	320	420	520	600	640	630	570	460	350	240	200	430
Clear Day	Global	650	860	1120	1340	1460	1480	1450	1350	1160	900	680	580	1090

Average Annual Solar Heat and Illumination – Nearest Available Site

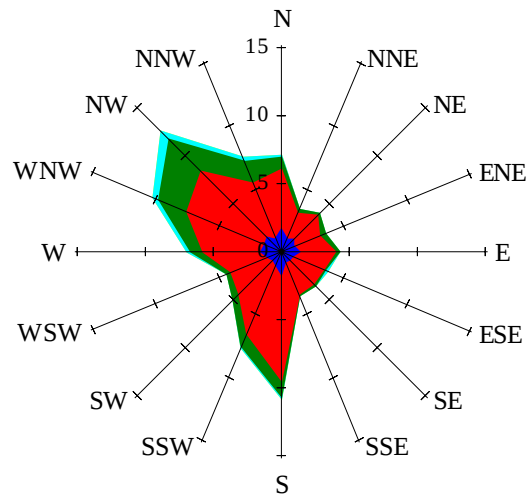
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	390	590	800	1080	1310	1470	1450	1260	980	690	410	310	900
NORTH	Unshaded	130	180	240	300	360	410	390	320	250	190	140	120	250
	Shaded	120	160	210	260	320	360	340	290	230	170	120	99	220
EAST	Unshaded	280	400	500	630	740	790	790	720	590	460	290	230	540
	Shaded	250	350	430	540	620	660	660	600	510	400	250	200	460
SOUTH	Unshaded	750	810	720	630	540	510	530	640	760	850	680	630	670
	Shaded	730	750	560	410	340	360	350	380	530	740	660	610	530
WEST	Unshaded	290	390	490	620	730	800	810	740	610	460	290	230	540
	Shaded	250	340	420	530	610	670	680	620	530	400	250	200	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	38	69	78	60	25	48	83	100	94	67
	M.Cloudy	22	42	47	37	15	31	58	73	68	48
NORTH	M.Clear	9	14	15	13	7	17	16	17	17	15
	M.Cloudy	9	15	17	14	7	14	17	19	19	16
EAST	M.Clear	73	55	15	13	7	78	72	31	17	15
	M.Cloudy	24	29	17	14	7	37	47	27	19	16
SOUTH	M.Clear	40	74	84	65	26	12	34	50	45	22
	M.Cloudy	16	35	40	30	11	12	27	38	35	19
WEST	M.Clear	9	14	23	65	62	12	16	17	52	78
	M.Cloudy	9	15	19	30	20	12	17	19	39	48
M.Clear	(% hrs)	29	27	26	27	28	40	38	33	34	37
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	28	65	82	75	46	12	37	43	25	0
	M.Cloudy	16	39	52	49	29	8	22	25	15	0
NORTH	M.Clear	8	14	16	15	11	5	9	10	7	0
	M.Cloudy	7	14	17	16	11	4	9	10	7	0
EAST	M.Clear	64	68	27	15	11	35	37	10	7	0
	M.Cloudy	20	33	22	16	11	9	15	10	7	0
SOUTH	M.Clear	22	58	77	70	39	33	77	86	59	1
	M.Cloudy	10	29	42	38	20	9	25	28	16	0
WEST	M.Clear	8	14	16	53	74	5	9	21	45	1
	M.Cloudy	7	14	17	32	33	4	9	13	14	0
M.Clear	(% hrs)	45	44	41	40	44	30	29	29	31	32

Wind Summary - December, January, and February

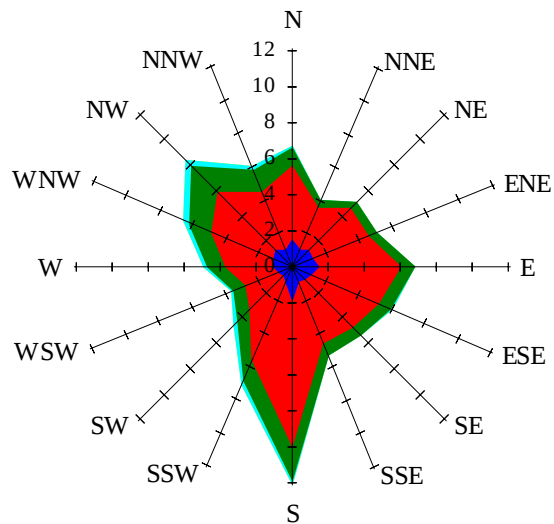
Labels of Percent Frequency on North Axis



Percent Calm = 3.51

Wind Summary - March, April, and May

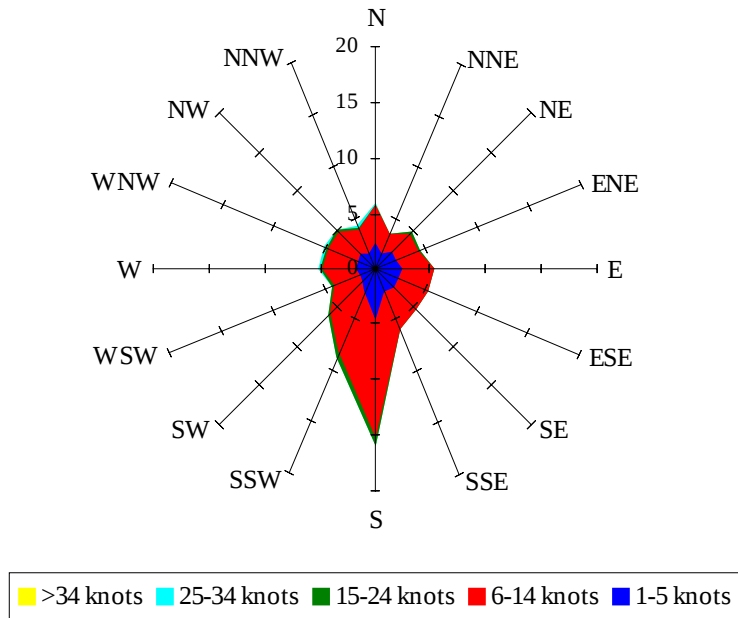
Labels of Percent Frequency on North Axis



Percent Calm = 3.93

Wind Summary - June, July, and August

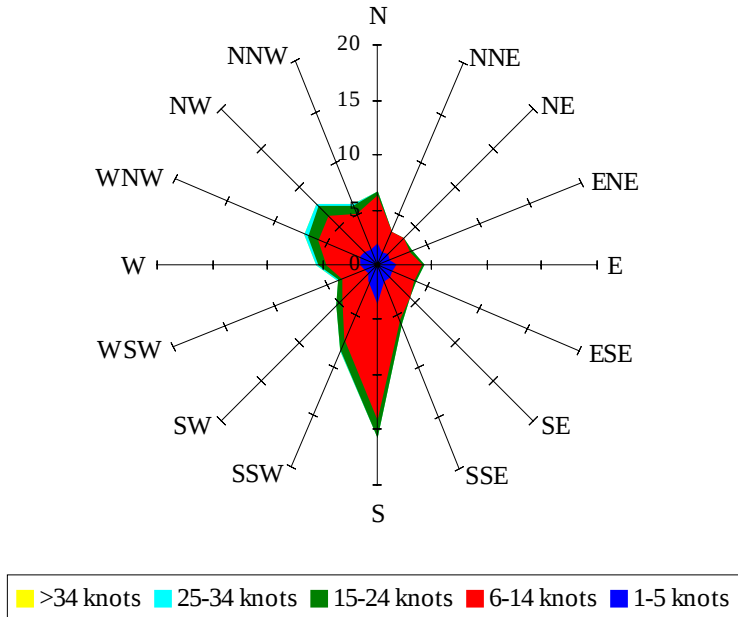
Labels of Percent Frequency on North Axis



Percent Calm = 7.92

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 6.88