

SCOTT AFB/BELLEVILLE IL

Latitude = 38.55 N

WMO No. 724338

Longitude = 89.85 W

Elevation = 453 feet

Period of Record = 1967 to 1996

Average Pressure = 29.52 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	99	78	110	7.3	SSW
0.4% Occurrence	95	78	117	7.6	S
1.0% Occurrence	92	76	115	7.7	S
2.0% Occurrence	90	75	111	7.6	S
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	16	14	8	7.6	NW
99.0% Occurrence	9	8	6	7.6	NW
99.6% Occurrence	3	2	4	7.5	NNW
Median of Extreme Lows	-3	-4	3	7.0	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	82	92	146	6.8	S
0.4% Occurrence	80	91	136	6.6	S
1.0% Occurrence	78	88	128	6.6	S
2.0% Occurrence	77	87	125	6.4	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	153	89	1.00	6.0	S
0.4% Occurrence	142	87	0.94	5.2	S
1.0% Occurrence	134	85	0.88	5.8	S
2.0% Occurrence	129	84	0.85	5.2	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		84	1033	773	1897

Other Site Data

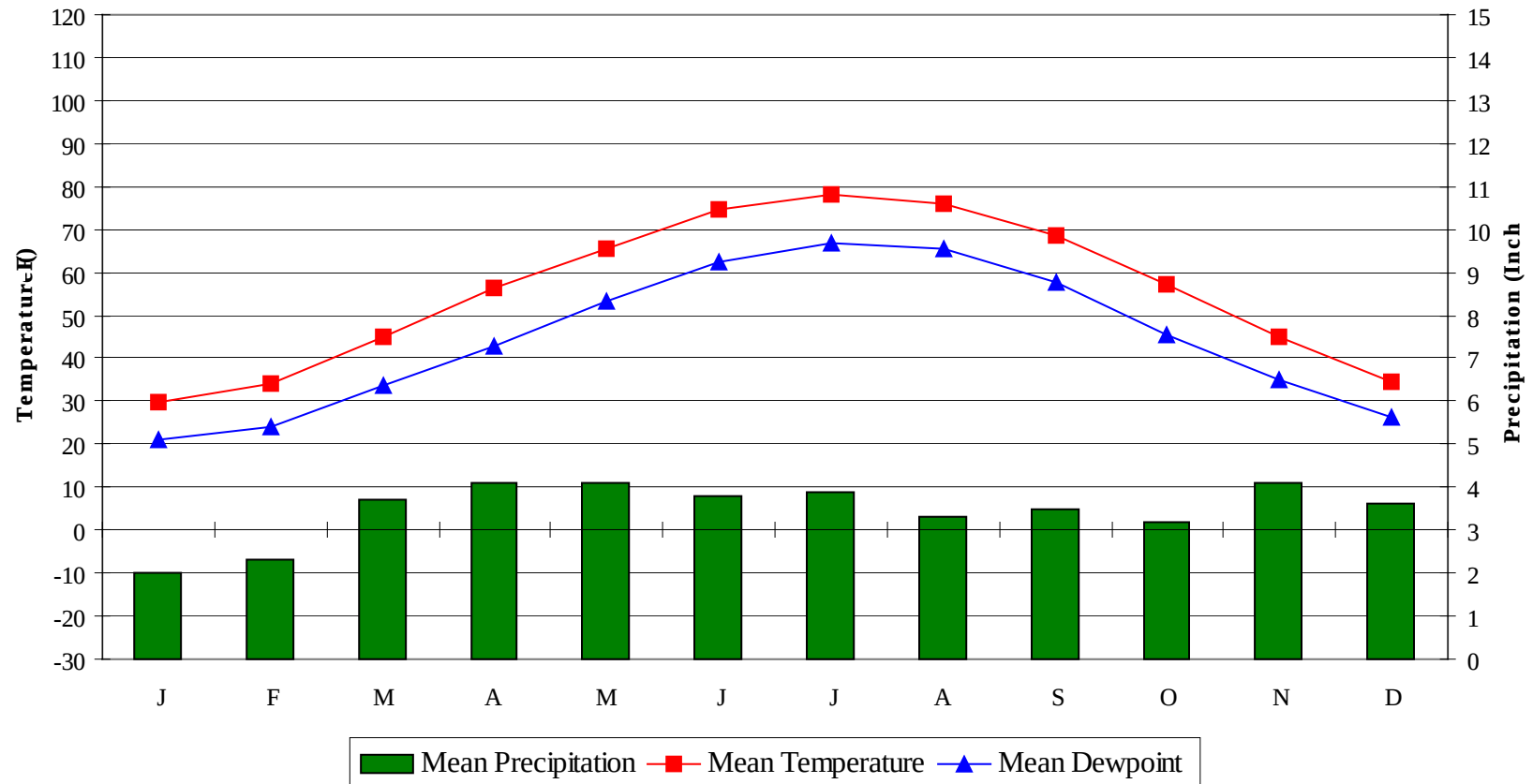
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
7	3.3	90	2.7 + 1.1
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
57.9	38	15	53

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

SCOTT AFB/BELLEVILLE IL

WMO No. 724338

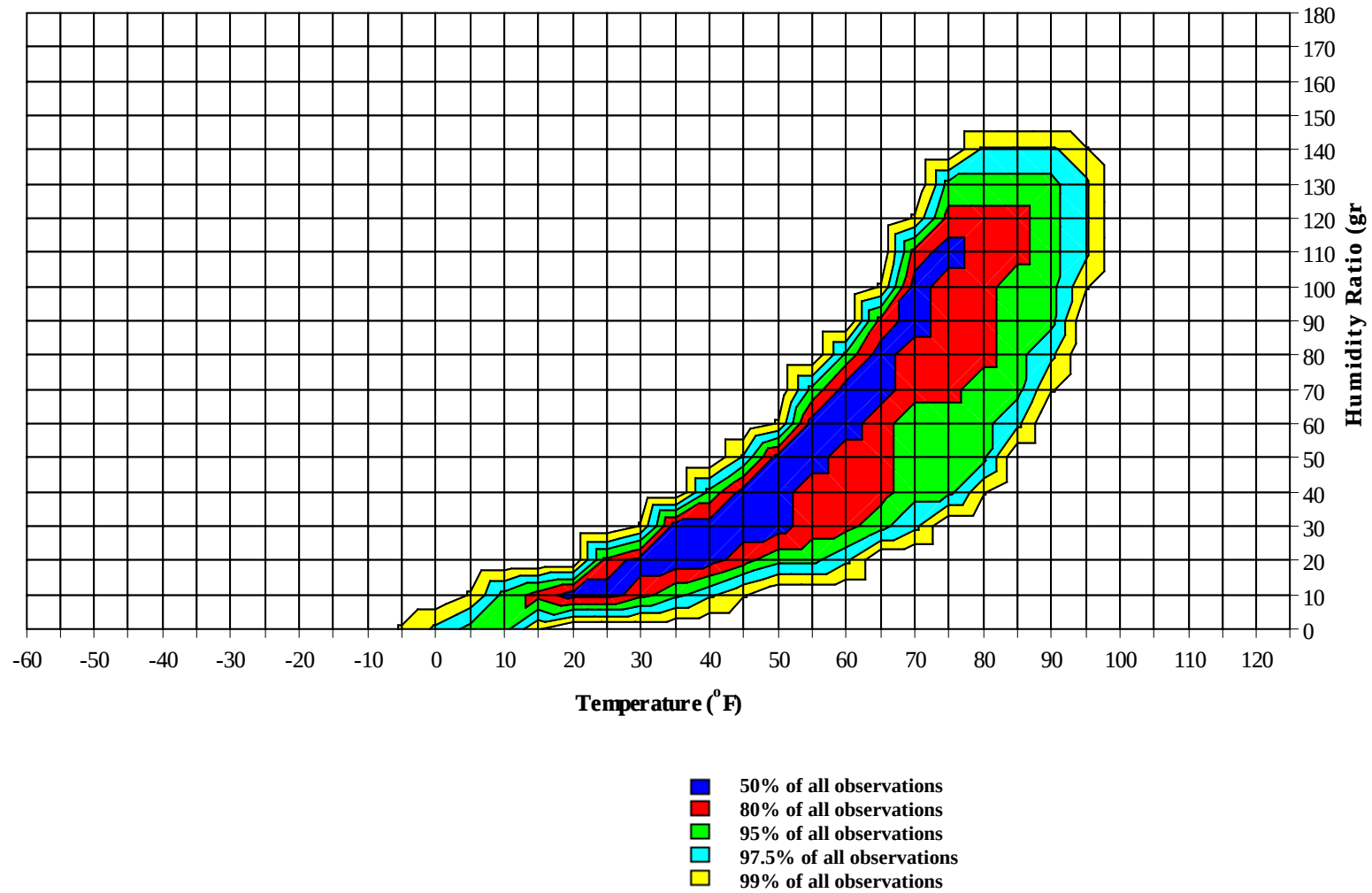
Average Annual Climate



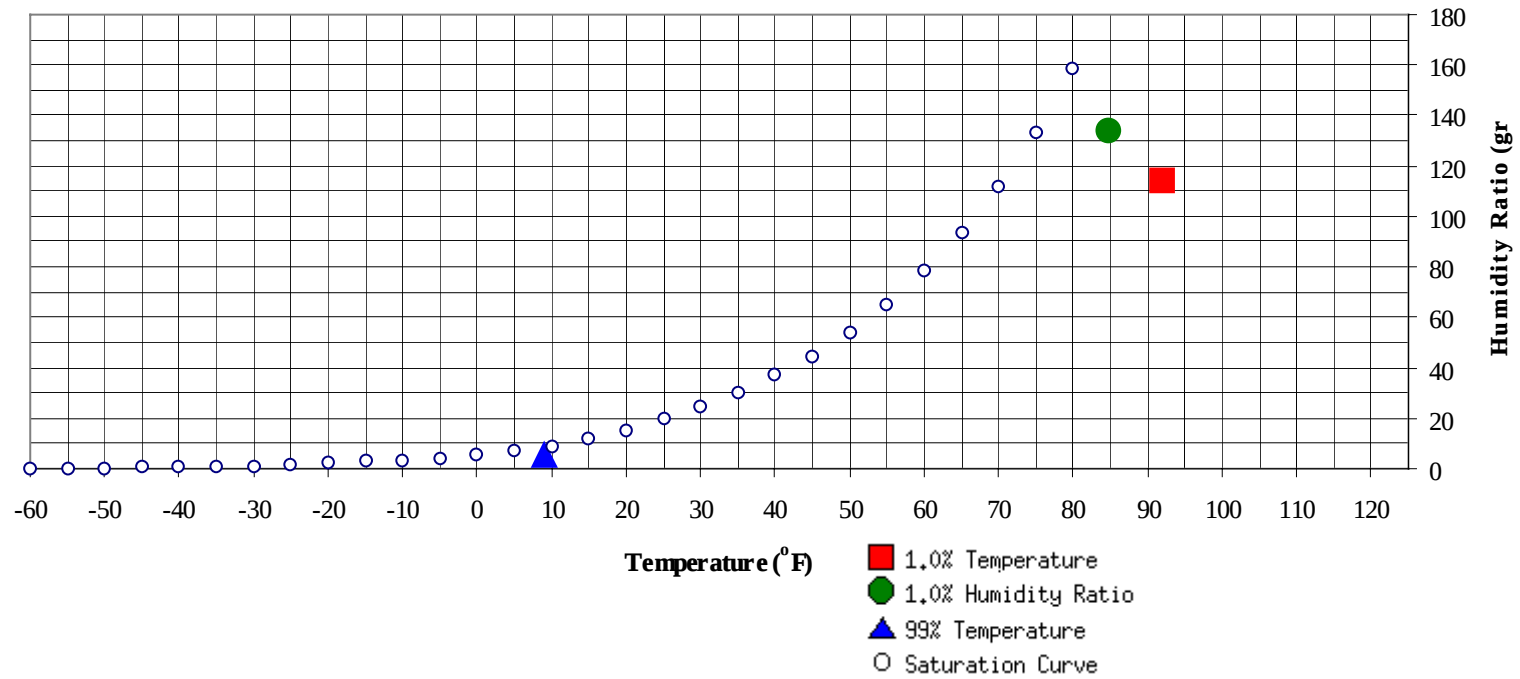
SCOTT AFB/BELLEVILLE IL

WMO No. 724338

Long Term Psychrometric Summary



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)
	9	5.6	3.0		133.7	84.8	77.6	75	41.3

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	92	113.8	76.3	40.0

SCOTT AFB/BELLEVILLE IL

WMO No. 724338

Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)**Period of Record = 1967 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	0	65.0
80 / 84												3	0	3	64.4
75 / 79							0	0	1	60.7		6	1	7	62.2
70 / 74		1		1	59.5		2	0	2	58.2	0	12	5	17	60.3
65 / 69	0	1	0	2	58.0		4	1	5	54.8	2	16	12	30	57.2
60 / 64	1	4	1	6	54.6	1	8	4	13	53.0	9	21	17	47	54.2
55 / 59	2	7	4	13	51.7	4	12	8	24	50.2	14	27	24	65	50.3
50 / 54	4	11	7	22	46.9	5	15	11	31	45.5	21	33	33	87	46.2
45 / 49	5	18	12	35	42.1	9	22	19	50	41.8	33	35	37	105	42.3
40 / 44	17	30	26	72	38.1	22	33	29	84	37.8	38	34	38	111	37.8
35 / 39	34	38	40	112	33.7	39	38	41	119	33.7	43	31	34	108	33.4
30 / 34	51	42	51	143	29.5	42	30	39	111	29.2	43	19	28	89	29.2
25 / 29	35	34	34	102	24.5	37	25	28	90	24.5	28	9	13	50	24.5
20 / 24	32	24	28	84	19.7	21	16	17	54	19.7	11	2	3	16	20.1
15 / 19	25	18	21	64	15.1	15	9	13	37	15.1	3	1	1	5	15.4
10 / 14	18	10	13	41	10.4	14	7	8	29	10.6	1	0	1	2	11.0
5 / 9	12	6	7	26	5.7	9	2	4	15	6.0	1	0	0	1	6.3
0 / 4	7	3	4	13	0.9	4	1	1	6	1.4	0			0	0.5
-5 / -1	3	1	1	5	-3.3	1	0	0	1	-2.8					
-10 / -6	2	0	0	2	-7.4	1	0	0	1	-7.9					
-15 / -11	0	0	0	1	-12.7	0			0	-11.4					
-20 / -16	0		0	0	-16.9										

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.

SCOTT AFB/BELLEVILLE IL

WMO No. 724338

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**Period of Record = 1967 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												1	0	1	75.6
95 / 99							0		0	76.0		4	1	5	75.6
90 / 94		1	0	1	70.9		4	1	4	72.7	0	28	8	35	75.1
85 / 89		3	1	4	67.7		18	4	22	70.6	1	54	21	76	73.1
80 / 84		13	3	16	65.8	0	34	13	47	68.2	9	60	40	109	70.5
75 / 79	0	20	9	29	63.9	5	43	27	75	65.7	32	47	55	134	68.6
70 / 74	4	28	19	52	60.8	19	49	42	110	63.2	68	29	56	153	66.6
65 / 69	13	34	31	78	58.1	46	43	51	140	60.5	60	11	34	105	62.8
60 / 64	31	39	36	105	54.7	55	32	46	134	56.8	41	5	18	64	58.4
55 / 59	34	35	41	109	50.5	48	18	35	100	52.6	21	1	5	28	54.3
50 / 54	41	30	37	107	46.5	37	5	21	63	48.1	6		1	7	49.7
45 / 49	46	21	30	97	42.4	27	2	7	36	43.9	1			1	46.3
40 / 44	35	12	20	66	38.1	8	0	2	10	39.2					
35 / 39	21	4	9	34	33.8	3		0	3	35.1					
30 / 34	13	1	4	18	29.8	0			0	30.8					
25 / 29	3	0	0	3	25.3										
20 / 24	0			0	21.5										
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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SCOTT AFB/BELLEVILLE IL

WMO No. 724338

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)**Period of Record = 1967 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		2	0	2	77.5		1	0	1	77.8					
95 / 99		14	3	18	77.9		10	1	12	78.4		2	0	2	76.7
90 / 94	0	49	15	64	76.9		35	8	43	77.1		11	2	12	75.1
85 / 89	2	68	31	102	74.6	1	61	21	83	74.3	0	28	6	34	72.6
80 / 84	19	63	56	138	72.6	9	65	45	118	72.0	1	46	17	64	70.0
75 / 79	63	34	67	163	71.1	43	46	64	153	70.6	11	48	35	94	68.1
70 / 74	86	14	48	149	68.3	76	25	60	160	67.8	41	44	51	137	65.7
65 / 69	48	3	20	71	63.7	61	6	32	99	63.5	46	30	44	120	61.8
60 / 64	22	1	6	29	58.9	38	1	13	52	59.2	46	18	38	103	57.6
55 / 59	7		1	8	54.8	16	0	3	19	54.9	42	8	27	77	53.4
50 / 54	1		0	1	51.2	3		0	4	50.4	30	3	14	47	49.1
45 / 49						0		0	0	45.8	16	0	5	21	44.9
40 / 44											6		2	7	40.2
35 / 39											1		0	2	36.1
30 / 34											0			0	31.5
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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SCOTT AFB/BELLEVILLE IL

WMO No. 724338

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)**Period of Record = 1967 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		0		0	69.4										
85 / 89		4	0	4	68.0										
80 / 84		13	1	14	66.7		0		0	61.2					
75 / 79	1	26	6	33	64.3		3	0	3	62.8					
70 / 74	3	35	19	57	62.1	0	8	2	11	61.9		1	0	1	62.9
65 / 69	17	41	33	91	59.6	2	15	8	26	59.4	1	3	1	4	59.5
60 / 64	30	43	39	112	55.6	12	23	18	53	56.5	2	8	3	13	56.2
55 / 59	37	37	47	121	51.3	15	28	22	65	51.0	6	11	8	26	52.4
50 / 54	44	29	40	113	47.1	23	32	29	84	46.7	8	17	11	36	46.7
45 / 49	46	15	34	95	43.0	31	38	36	105	42.6	12	27	18	58	42.6
40 / 44	36	4	19	59	39.0	39	39	42	119	38.0	27	40	35	102	38.1
35 / 39	23	1	8	33	34.6	44	31	41	117	33.7	42	48	50	140	33.9
30 / 34	9	0	2	11	30.5	40	14	28	82	29.5	52	41	48	140	29.5
25 / 29	2		0	2	25.9	20	5	10	35	25.0	39	23	34	96	24.7
20 / 24						9	2	4	14	20.3	25	12	17	54	20.1
15 / 19						3	1	1	5	15.4	16	7	9	33	15.4
10 / 14						1	0	0	2	10.8	9	6	6	20	10.6
5 / 9						0			0	7.5	4	2	3	10	5.9
0 / 4											3	1	2	6	1.2
-5 / -1											2	1	1	3	-3.5
-10 / -6											1	0	1	2	-7.3
-15 / -11											0	0	0	1	-12.0
-20 / -16															

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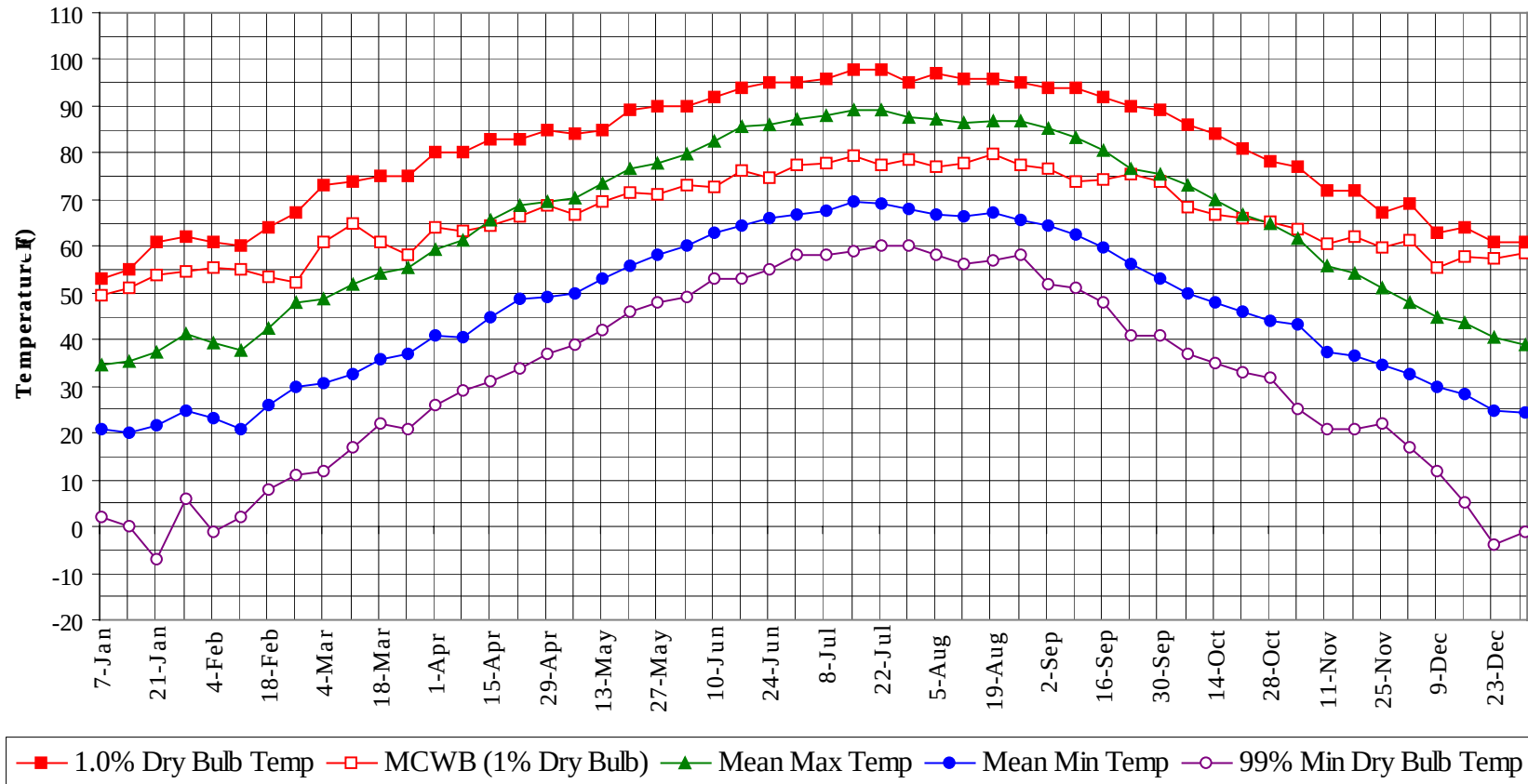
WMO No. 724338

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**Period of Record = 1967 to 1996**

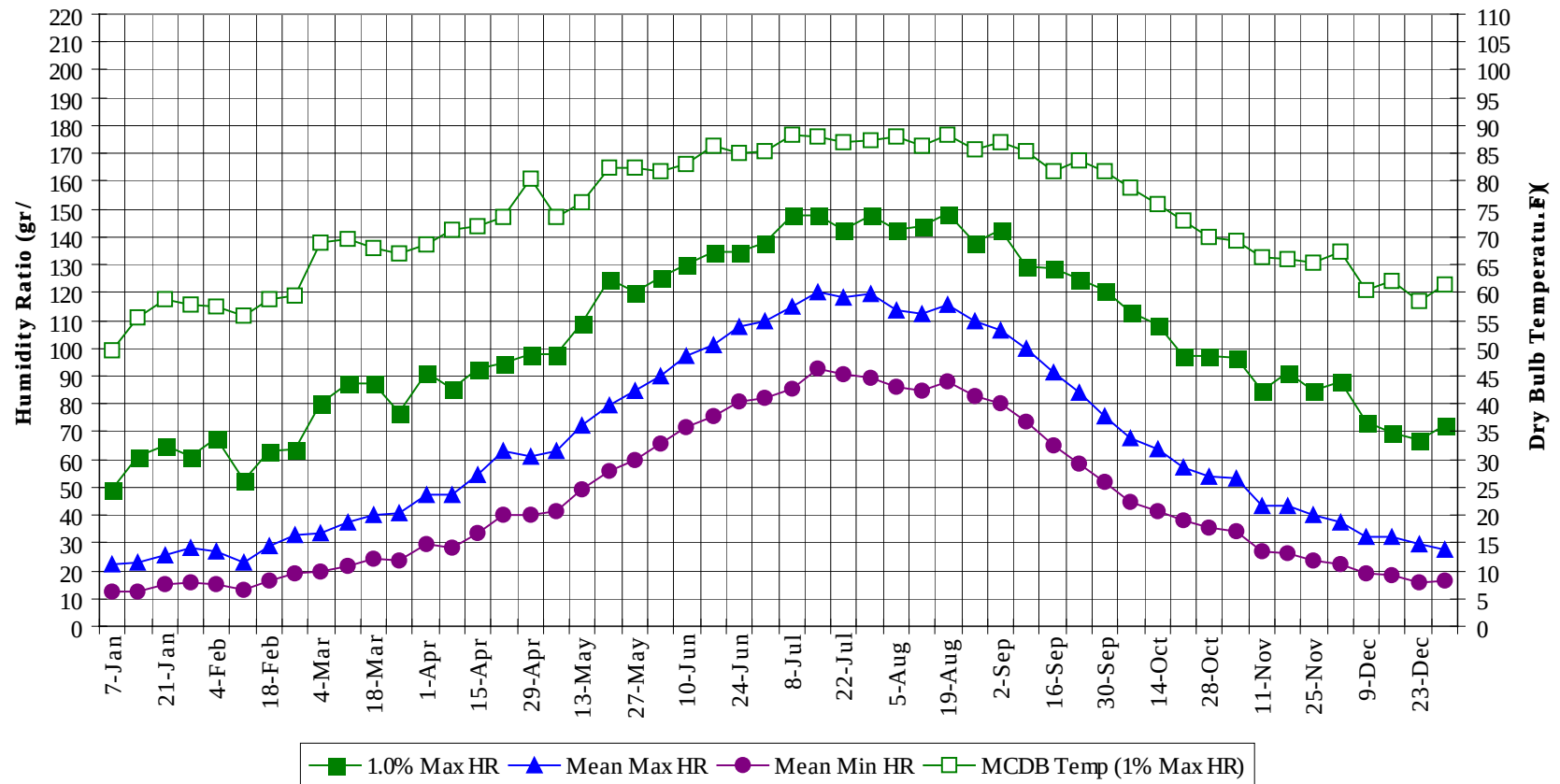
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		3	0	3	77.1
95 / 99		31	5	37	77.7
90 / 94	0	127	32	160	76.3
85 / 89	4	236	84	325	73.5
80 / 84	37	296	176	509	70.8
75 / 79	154	274	263	690	68.7
70 / 74	298	247	303	848	65.7
65 / 69	296	207	267	770	61.1
60 / 64	288	201	241	730	56.5
55 / 59	246	184	224	654	51.8
50 / 54	223	175	205	602	47.0
45 / 49	228	179	197	603	42.7
40 / 44	227	192	211	631	38.1
35 / 39	250	192	224	667	33.8
30 / 34	251	146	199	596	29.4
25 / 29	163	95	120	379	24.6
20 / 24	99	54	69	222	19.9
15 / 19	63	36	46	145	15.2
10 / 14	43	24	28	95	10.5
5 / 9	26	11	14	51	5.9
0 / 4	14	5	7	25	1.1
-5 / -1	6	2	2	10	-3.3
-10 / -6	3	1	1	6	-7.5
-15 / -11	1	0	0	2	-12.2
-20 / -16	0		0	0	-16.9

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



SCOTT AFB/BELLEVILLE IL

WMO No. 724338

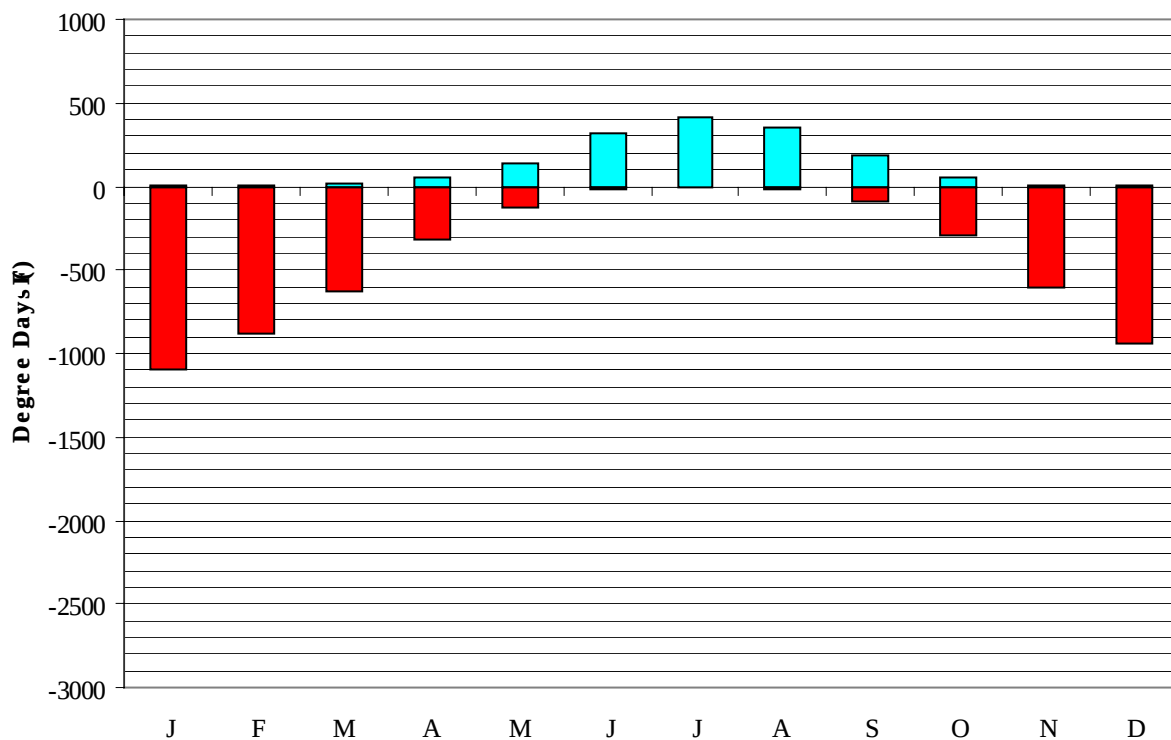
Long Term Dry Bulb Temperature and Humidity Summary

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	53.0	49.4	34.7	20.9	2.0	49.0	49.6	22.6	12.8
14-Jan	55.0	50.9	35.2	20.1	0.0	60.9	55.6	22.7	12.2
21-Jan	61.0	53.8	37.2	21.7	-7.0	65.1	58.9	25.8	14.8
28-Jan	62.0	54.6	41.4	24.9	6.0	60.9	57.9	28.2	15.8
4-Feb	61.0	55.4	39.2	23.1	-1.0	67.9	57.4	26.6	15.4
11-Feb	60.0	55.2	37.7	21.0	2.0	52.5	55.8	23.2	13.1
18-Feb	64.0	53.6	42.4	25.9	8.0	63.0	58.8	28.6	16.7
25-Feb	67.0	52.4	47.9	30.0	11.0	63.7	59.4	32.8	19.2
4-Mar	73.0	61.1	48.6	30.6	12.0	79.8	69.1	33.3	19.8
11-Mar	74.0	64.8	51.7	32.5	17.0	87.5	69.5	37.5	21.9
18-Mar	75.0	61.0	54.4	35.6	22.0	87.5	68.1	40.2	24.1
25-Mar	75.0	58.3	55.6	36.9	21.0	77.0	67.0	40.6	24.0
1-Apr	80.0	64.0	59.3	40.8	26.0	91.0	68.6	47.2	29.8
8-Apr	80.0	63.3	61.4	40.6	29.0	85.4	71.3	47.3	28.0
15-Apr	83.0	64.4	65.5	44.9	31.0	92.4	71.8	54.6	33.7
22-Apr	83.0	66.4	68.8	48.7	34.0	94.5	73.4	62.9	39.9
29-Apr	85.0	68.9	69.5	49.1	37.0	98.0	80.3	61.4	39.9
6-May	84.0	66.9	70.3	49.9	39.0	98.0	73.7	63.2	41.2
13-May	85.0	69.5	73.6	53.2	42.0	109.2	76.3	72.6	49.5
20-May	89.0	71.6	76.6	55.6	46.0	124.6	82.5	79.7	55.6
27-May	90.0	71.3	77.9	58.1	48.0	120.4	82.3	84.5	59.9
3-Jun	90.0	72.9	79.7	60.1	49.0	125.3	81.8	90.1	65.4
10-Jun	92.0	72.7	82.7	62.9	53.0	130.2	83.2	97.4	71.8
17-Jun	94.0	76.0	85.6	64.4	53.0	134.4	86.4	100.9	75.5
24-Jun	95.0	74.8	86.2	66.0	55.0	134.4	85.0	107.7	80.7
1-Jul	95.0	77.5	87.3	66.8	58.0	137.9	85.3	109.6	82.2
8-Jul	96.0	77.8	88.0	67.7	58.0	147.7	88.4	114.8	85.5
15-Jul	98.0	79.3	89.0	69.6	59.0	147.7	87.9	119.9	92.4
22-Jul	98.0	77.3	89.0	69.0	60.0	142.8	86.9	117.9	90.8
29-Jul	95.0	78.7	87.6	68.2	60.0	147.7	87.2	119.4	89.2
5-Aug	97.0	76.9	87.0	66.8	58.0	142.8	88.1	113.5	86.0
12-Aug	96.0	77.7	86.4	66.4	56.0	143.5	86.4	112.6	84.9
19-Aug	96.0	79.6	86.8	67.0	57.0	148.4	88.2	115.6	88.3
26-Aug	95.0	77.6	86.7	65.6	58.0	137.9	85.6	109.9	82.6
2-Sep	94.0	76.6	85.1	64.5	52.0	142.8	87.1	106.3	80.3
9-Sep	94.0	73.9	83.3	62.5	51.0	129.5	85.4	99.7	73.6
16-Sep	92.0	74.3	80.5	59.6	48.0	128.8	81.6	91.1	65.2
23-Sep	90.0	75.6	76.7	56.0	41.0	124.6	83.7	84.0	58.2
30-Sep	89.0	74.1	75.5	53.1	41.0	121.1	81.9	75.5	52.0
7-Oct	86.0	68.4	73.1	49.8	37.0	112.7	78.9	67.9	44.9
14-Oct	84.0	66.7	69.9	47.8	35.0	108.5	76.0	63.9	41.7
21-Oct	81.0	66.1	66.7	45.9	33.0	97.3	73.0	57.4	37.9
28-Oct	78.0	65.1	64.7	44.2	32.0	97.3	69.8	54.1	35.5
4-Nov	77.0	63.6	61.6	43.1	25.0	96.6	69.3	53.3	34.1
11-Nov	72.0	60.5	55.9	37.3	21.0	84.7	66.5	43.0	26.6
18-Nov	72.0	62.1	54.4	36.8	21.0	91.0	66.0	43.4	26.5
25-Nov	67.0	59.6	51.3	34.7	22.0	84.7	65.4	40.4	23.6
2-Dec	69.0	61.3	48.0	32.7	17.0	88.2	67.2	37.7	22.1
9-Dec	63.0	55.5	44.9	29.9	12.0	73.5	60.5	32.2	19.3
16-Dec	64.0	57.9	43.7	28.3	5.0	69.3	62.2	32.0	18.5
23-Dec	61.0	57.4	40.3	24.6	-4.0	67.2	58.4	29.3	15.9
31-Dec	61.0	58.5	38.9	24.6	-1.0	72.1	61.4	27.7	16.4

SCOTT AFB/BELLEVILLE IL

WMO No. 724338

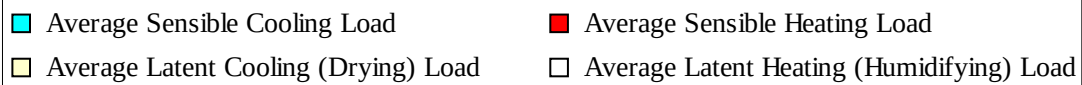
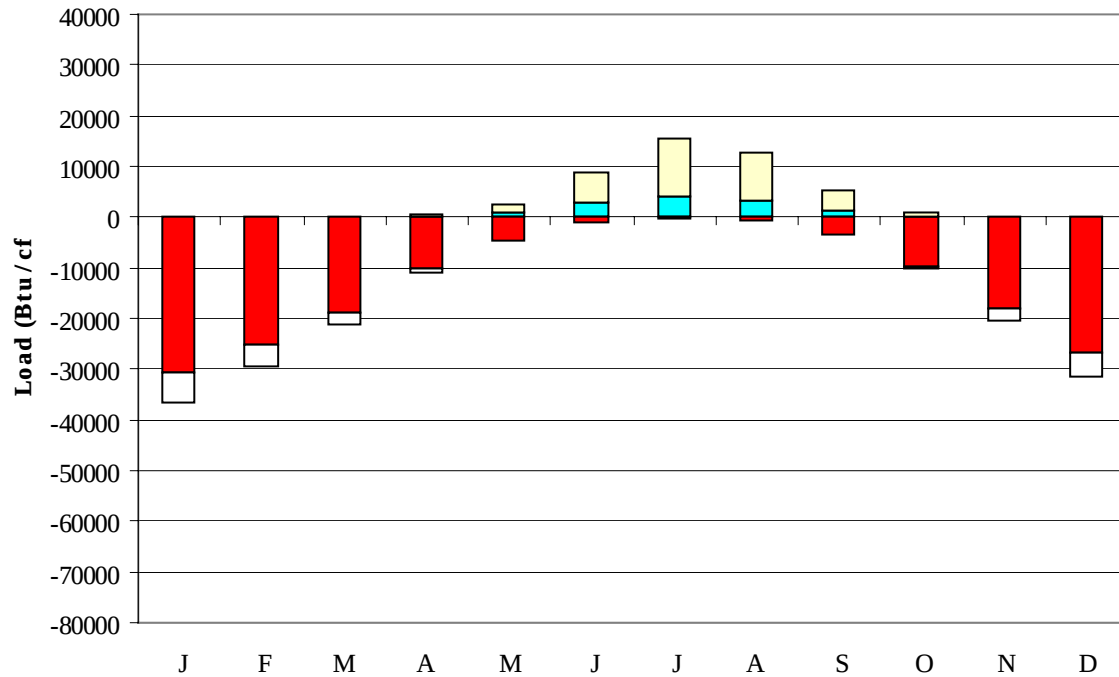
Degree Days, Heating and Cooling (Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1094
FEB	1	879
MAR	13	634
APR	50	312
MAY	137	122
JUN	314	21
JUL	418	6
AUG	354	14
SEP	188	87
OCT	52	298
NOV	7	608
DEC	0	942
ANN	1534	5017

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



	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	-30775	1	-5940
FEB	0	-24966	3	-4532
MAR	34	-18713	57	-2613
APR	227	-9959	222	-826
MAY	843	-4462	1787	-87
JUN	2828	-981	6087	-1
JUL	4255	-341	11159	0
AUG	3285	-705	9343	0
SEP	1350	-3230	3729	-24
OCT	215	-9619	515	-527
NOV	8	-18010	85	-2268
DEC	0	-26811	10	-4609
ANN	13045	-148572	32998	-21427

Average Annual Solar Radiation – Nearest Available Site

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

City: ST. LOUIS
 State: MO
 WBAN No: 13994
 Lat(N): 38.75
 Long(W): 90.38
 Elev(ft): 564

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.498
 Vert Gap: 0.314

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	690	930	1230	1590	1860	2030	2020	1800	1460	1100	720	580	1340
	Std Dev	56	69	98	135	138	114	120	110	112	98	69	57	42
	Minimum	550	800	1060	1370	1550	1830	1750	1570	1190	870	590	490	1280
	Maximum	780	1070	1430	1930	2180	2350	2240	1960	1690	1250	870	710	1480
	Diffuse	340	460	590	710	810	840	810	730	600	430	350	300	580
Clear Day	Global	950	1300	1760	2230	2520	2630	2550	2290	1870	1400	1000	840	1780
NORTH	Global	210	280	360	440	550	630	600	490	380	290	220	190	390
	Diffuse	210	280	360	430	500	530	520	460	380	290	220	190	370
Clear Day	Global	190	250	330	430	580	680	630	470	360	270	200	170	380
EAST	Global	460	590	750	920	1060	1140	1130	1050	880	710	470	390	800
	Diffuse	260	340	440	530	600	640	620	570	470	360	270	230	440
Clear Day	Global	710	910	1150	1340	1440	1460	1430	1340	1170	940	730	640	1110
SOUTH	Global	1080	1110	1060	970	830	780	820	950	1110	1220	1020	940	990
	Diffuse	370	440	500	540	560	570	570	560	520	440	360	330	480
Clear Day	Global	1930	1970	1770	1380	1040	890	950	1210	1580	1840	1870	1860	1520
WEST	Global	470	600	740	920	1040	1110	1120	1030	880	700	480	390	790
	Diffuse	260	340	440	530	610	650	630	580	480	360	270	230	450
Clear Day	Global	710	910	1150	1340	1440	1460	1430	1340	1170	940	730	640	1110

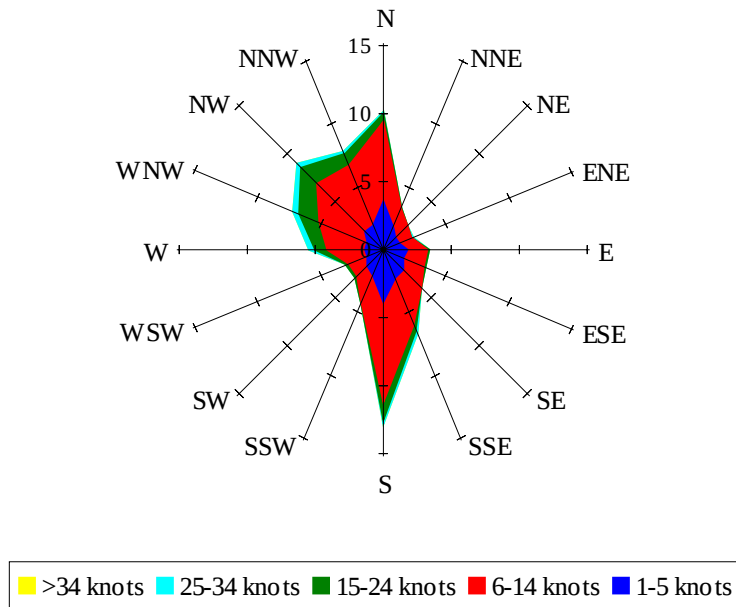
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	450	640	870	1150	1350	1480	1470	1300	1040	770	480	370	950
NORTH	Unshaded	150	190	250	300	370	410	390	330	260	200	150	130	260
	Shaded	130	170	220	270	330	370	350	300	240	180	140	110	230
EAST	Unshaded	320	410	530	660	750	810	810	750	620	500	320	270	560
	Shaded	290	370	470	570	650	700	700	650	550	450	290	240	490
SOUTH	Unshaded	810	810	740	630	510	470	490	600	750	870	760	700	680
	Shaded	790	750	590	420	350	360	360	390	550	770	730	680	560
WEST	Unshaded	320	420	520	650	740	790	800	740	620	490	330	270	560
	Shaded	290	370	460	570	640	680	690	640	550	440	300	240	490

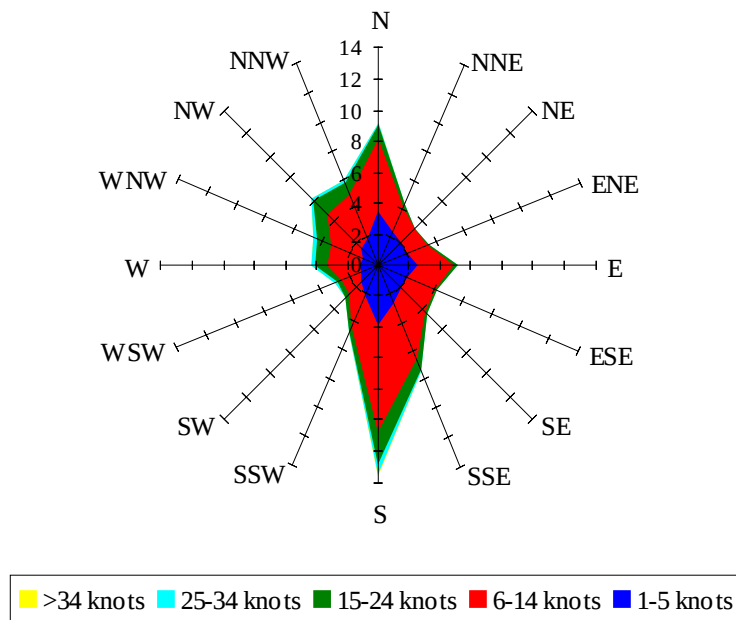
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9											
		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	40	73	82	64	26	48	84	101	96	67
	M.Cloudy	23	45	52	40	16	32	61	76	71	49
NORTH	M.Clear	10	14	15	13	8	19	16	17	17	15
	M.Cloudy	9	16	17	14	7	15	18	19	19	16
EAST	M.Clear	75	56	15	13	8	78	72	31	17	15
	M.Cloudy	25	30	17	14	7	40	49	27	19	16
SOUTH	M.Clear	40	73	82	64	26	12	31	45	41	19
	M.Cloudy	17	36	43	32	12	12	26	37	33	18
WEST	M.Clear	10	14	24	67	64	12	16	17	53	78
	M.Cloudy	9	16	21	33	22	12	18	19	41	50
M.Clear	(% hrs)	32	28	27	28	29	43	39	32	29	34
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	29	68	86	78	47	16	42	48	30	2
	M.Cloudy	17	42	58	53	31	9	25	28	17	2
NORTH	M.Clear	9	14	16	15	12	6	10	11	8	1
	M.Cloudy	7	15	18	17	12	4	10	11	7	1
EAST	M.Clear	65	70	28	15	12	42	39	11	8	1
	M.Cloudy	23	36	23	17	12	11	18	11	7	1
SOUTH	M.Clear	21	57	75	67	37	39	82	88	63	6
	M.Cloudy	11	31	45	41	21	10	29	32	20	2
WEST	M.Clear	9	14	16	54	74	6	10	22	50	9
	M.Cloudy	7	15	18	35	35	4	10	14	17	2
M.Clear	(% hrs)	47	47	41	41	43	31	30	30	30	32

Wind Summary - December, January, and February **Labels of Percent Frequency on North Axis**



Percent Calm = 12.82

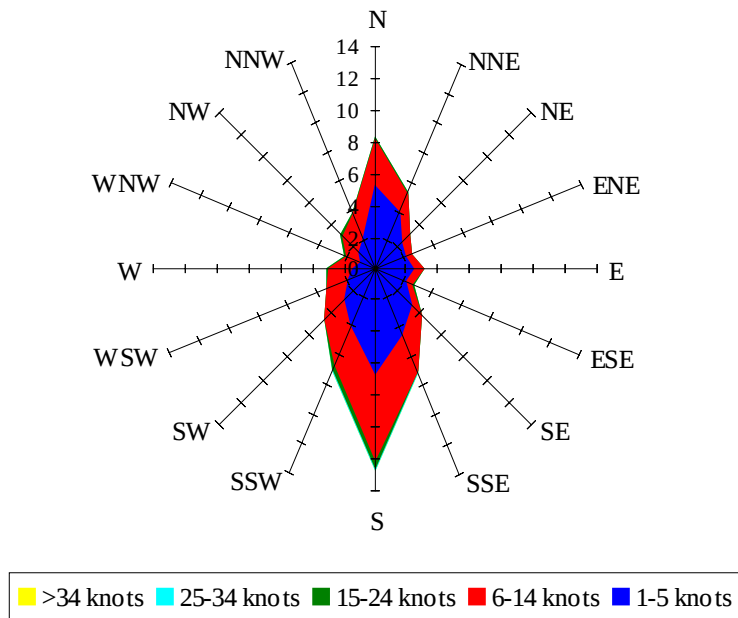
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 14.93

Wind Summary - June, July, and August

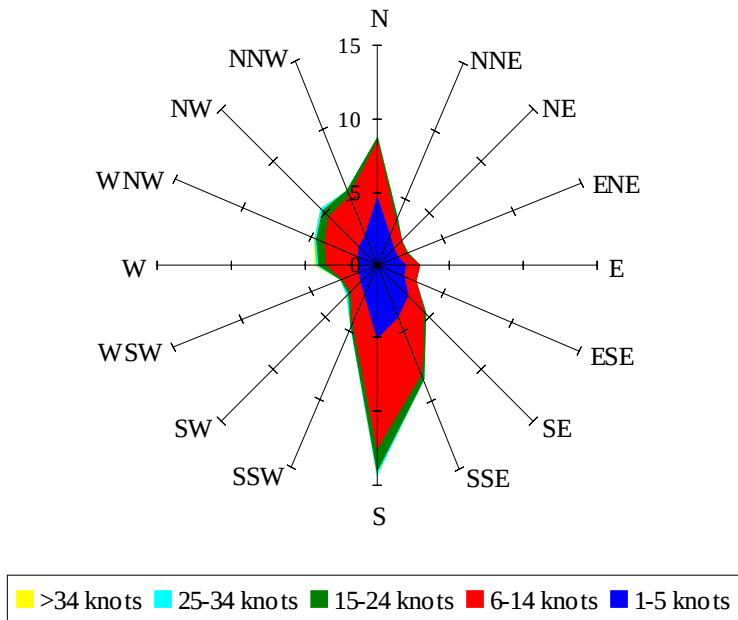
Labels of Percent Frequency on North Axis



Percent Calm = 25.11

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 20.73