

FORT CAMPBELL (AAF) KY

Latitude = 36.67 N

WMO No. 746710

Longitude = 87.50 W

Elevation = 571 feet

Period of Record = 1967 to 1996

Average Pressure = 29.41 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	77	111	6.0	W
0.4% Occurrence	94	77	112	6.4	W
1.0% Occurrence	92	76	113	6.4	SSW
2.0% Occurrence	90	75	111	6.7	SSW
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	20	18	10	5.7	N
99.0% Occurrence	14	12	8	6.3	NNW
99.6% Occurrence	8	7	5	4.9	NNW
Median of Extreme Lows	3	2	4	5.9	NNW
	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	147	6.1	W
0.4% Occurrence	79	90	135	6.2	WSW
1.0% Occurrence	78	88	130	6.1	WSW
2.0% Occurrence	77	87	126	5.8	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	154	87	1.00	5.3	WSW
0.4% Occurrence	139	85	0.90	5.8	W
1.0% Occurrence	134	84	0.88	4.5	SSW
2.0% Occurrence	129	83	0.85	4.1	SSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		68	1049	815	2135

Other Site Data

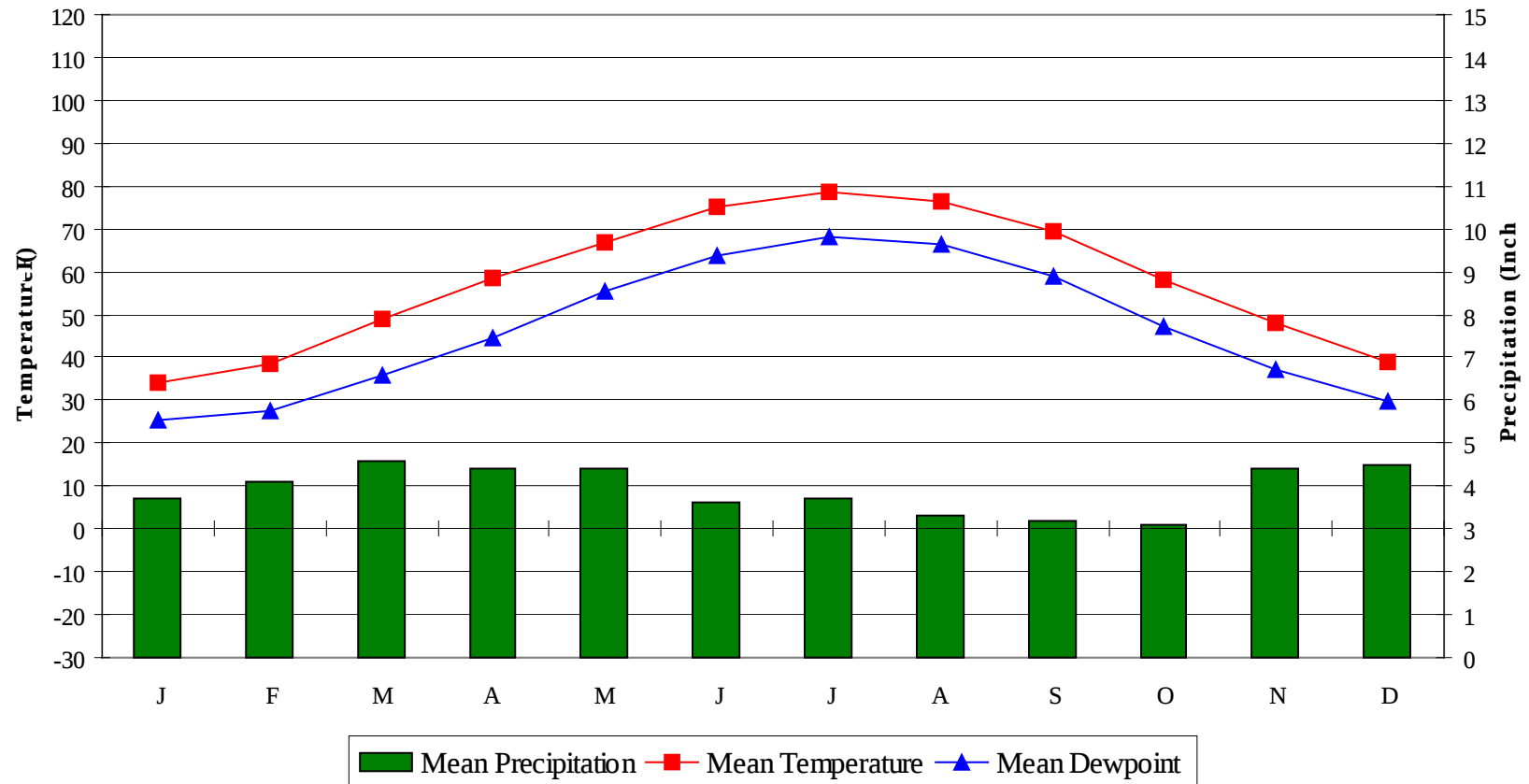
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
7	3.3	90	3.1 + 1.1
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
60.2	22	15	48

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

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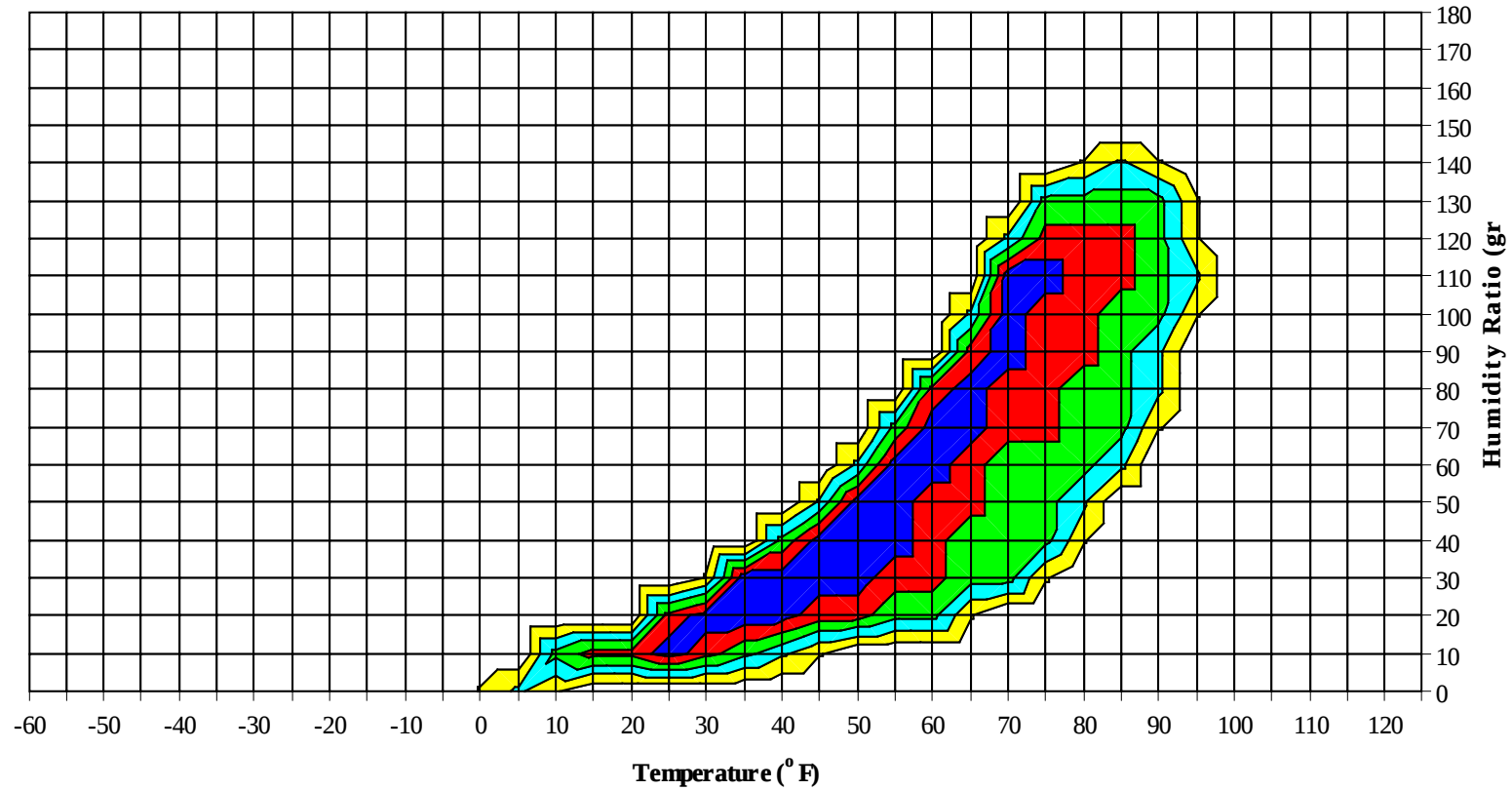
Average Annual Climate



FORT CAMPBELL (AAF) KY

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Long Term Psychrometric Summary

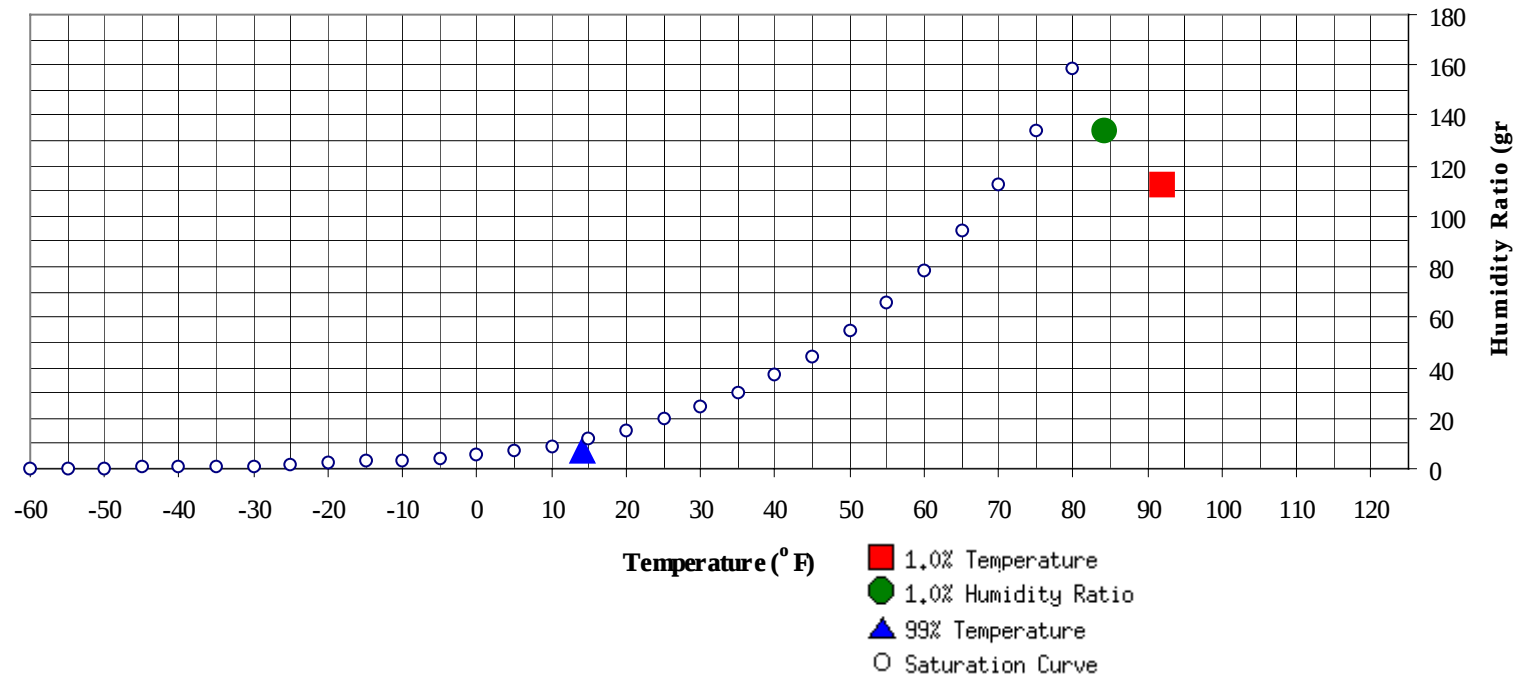


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
99% Dry Bulb	14	7.5	4.5		133.7	84.3	77.5	75	41.2

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	92	112.6	76.1	39.8

FORT CAMPBELL (AAF) KY

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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	65.3
80 / 84							0	0	0	62.0		3	0	4	63.0
75 / 79		0		0	68.0		1	0	1	59.4		12	3	15	60.8
70 / 74		1	0	1	61.0		4	1	5	57.8	1	19	9	29	59.0
65 / 69	1	3	1	5	58.9	1	9	3	13	55.6	7	26	16	49	56.3
60 / 64	2	8	5	15	55.6	5	16	9	30	53.6	16	28	27	70	54.0
55 / 59	6	14	11	31	51.5	9	18	15	42	50.4	23	33	30	87	50.4
50 / 54	9	20	13	42	46.6	10	21	17	48	45.9	29	35	35	99	45.9
45 / 49	15	25	21	61	42.7	16	28	22	66	41.7	34	30	37	101	41.9
40 / 44	21	37	30	88	37.9	28	31	35	94	37.9	36	27	34	96	37.4
35 / 39	35	39	41	115	33.9	32	29	35	96	33.3	39	21	26	85	33.3
30 / 34	47	38	46	131	29.3	41	28	32	102	29.0	32	11	21	63	29.3
25 / 29	43	26	34	103	24.5	32	19	26	77	24.5	21	3	8	32	24.8
20 / 24	25	19	20	63	19.9	18	11	14	43	19.7	7	1	1	9	20.4
15 / 19	17	8	13	38	15.4	16	5	9	30	15.3	1	1	1	3	15.6
10 / 14	11	5	8	24	10.5	10	2	3	15	10.8	1	0	0	1	10.8
5 / 9	8	3	4	14	5.9	4	1	1	6	6.2	1		0	1	6.5
0 / 4	4	1	1	7	1.3	1	0	1	2	1.6	0			0	3.0
-5 / -1	2	0	1	3	-3.0	0			0	-2.6					
-10 / -6	1	0	0	2	-7.4										
-15 / -11	1		0	1	-11.5										
-20 / -16	0			0	-15.0										

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.

FORT CAMPBELL (AAF) KY

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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	78.0
95 / 99												3	1	3	76.6
90 / 94		0		0	66.9		2	0	2	73.4	0	24	4	28	75.4
85 / 89		4	0	5	66.1	0	20	3	23	71.5	1	59	17	76	73.6
80 / 84		18	4	22	64.7	1	43	13	57	69.3	7	67	36	110	71.1
75 / 79	1	27	11	39	62.6	7	51	30	88	66.6	32	47	60	139	69.3
70 / 74	7	37	24	68	60.5	25	50	49	124	64.1	76	29	66	172	67.2
65 / 69	21	38	36	95	58.1	58	39	57	154	61.4	66	8	38	112	63.5
60 / 64	38	38	42	118	55.0	55	26	45	127	57.2	36	2	14	52	58.7
55 / 59	39	32	39	110	50.7	40	12	30	82	52.6	17	0	4	21	54.0
50 / 54	38	22	34	94	46.4	35	3	16	54	48.6	5		0	5	49.7
45 / 49	36	14	27	77	42.3	19	1	5	25	44.3	1			1	45.4
40 / 44	35	7	15	57	38.2	6	0	0	6	39.9					
35 / 39	16	2	7	25	33.9	1		0	1	35.6					
30 / 34	8	0	1	10	29.5	0			0	32.0					
25 / 29	2		0	2	25.9										
20 / 24	0			0	22.5										
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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FORT CAMPBELL (AAF) KY

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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		1	0	2	78.5		1	0	1	76.9					
95 / 99		11	2	13	78.5		10	1	11	76.5		2	0	2	73.2
90 / 94		0	51	11	76.7		37	7	44	75.8		12	1	13	73.9
85 / 89		3	74	29	75.0	1	66	20	87	74.0		34	5	39	72.3
80 / 84		16	62	53	73.2	8	68	44	120	72.3	1	53	16	69	69.8
75 / 79		62	34	76	71.6	43	44	71	158	70.8	10	50	38	98	68.0
70 / 74	103	12	56	172	68.8	96	18	69	182	68.4	50	42	57	150	66.5
65 / 69	45	2	16	63	64.3	60	4	25	89	64.2	54	27	48	129	62.7
60 / 64	16	0	5	21	59.4	28	1	9	38	59.4	45	14	36	94	58.1
55 / 59	4		0	4	55.7	11		2	12	55.1	36	5	24	65	53.6
50 / 54	0			0	51.8	1		0	1	50.5	29	2	11	42	49.5
45 / 49						0			0	45.0	11	0	4	15	45.0
40 / 44											3		0	4	40.9
35 / 39											1		0	1	37.4
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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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															
85 / 89		2		2	69.3										
80 / 84		16	1	17	67.4										
75 / 79	1	34	7	41	64.8		6	0	6	63.0		0		0	65.5
70 / 74	5	43	19	67	62.0	1	16	3	20	61.4	0	3	0	3	62.7
65 / 69	21	44	38	104	59.8	6	23	13	43	59.2	2	7	3	12	59.8
60 / 64	34	41	44	120	56.0	19	29	22	70	55.8	8	16	9	33	56.7
55 / 59	39	35	44	118	51.7	22	36	28	85	50.9	13	19	16	47	52.3
50 / 54	42	22	39	103	47.5	29	36	32	97	46.7	13	27	18	58	46.6
45 / 49	43	8	32	83	43.4	31	37	38	106	42.2	19	36	26	80	42.3
40 / 44	32	2	18	51	39.1	36	31	41	108	37.8	30	40	38	108	38.1
35 / 39	21	0	7	28	34.9	39	20	32	90	33.5	39	39	43	121	33.7
30 / 34	8	0	1	10	31.0	30	5	21	56	29.4	46	31	43	121	29.2
25 / 29	2		0	2	26.2	20	2	7	28	24.8	35	15	27	77	24.5
20 / 24	0			0	22.3	6	1	1	8	20.3	22	7	12	41	20.1
15 / 19						1	0	1	2	15.7	11	4	7	22	15.7
10 / 14						0		0	1	11.1	5	2	3	11	10.8
5 / 9											3	1	1	5	6.3
0 / 4											1	0	1	2	1.1
-5 / -1											1	0	0	1	-3.0
-10 / -6											0	0	0	0	-7.5
-15 / -11											1	0	0	1	-11.7
-20 / -16															

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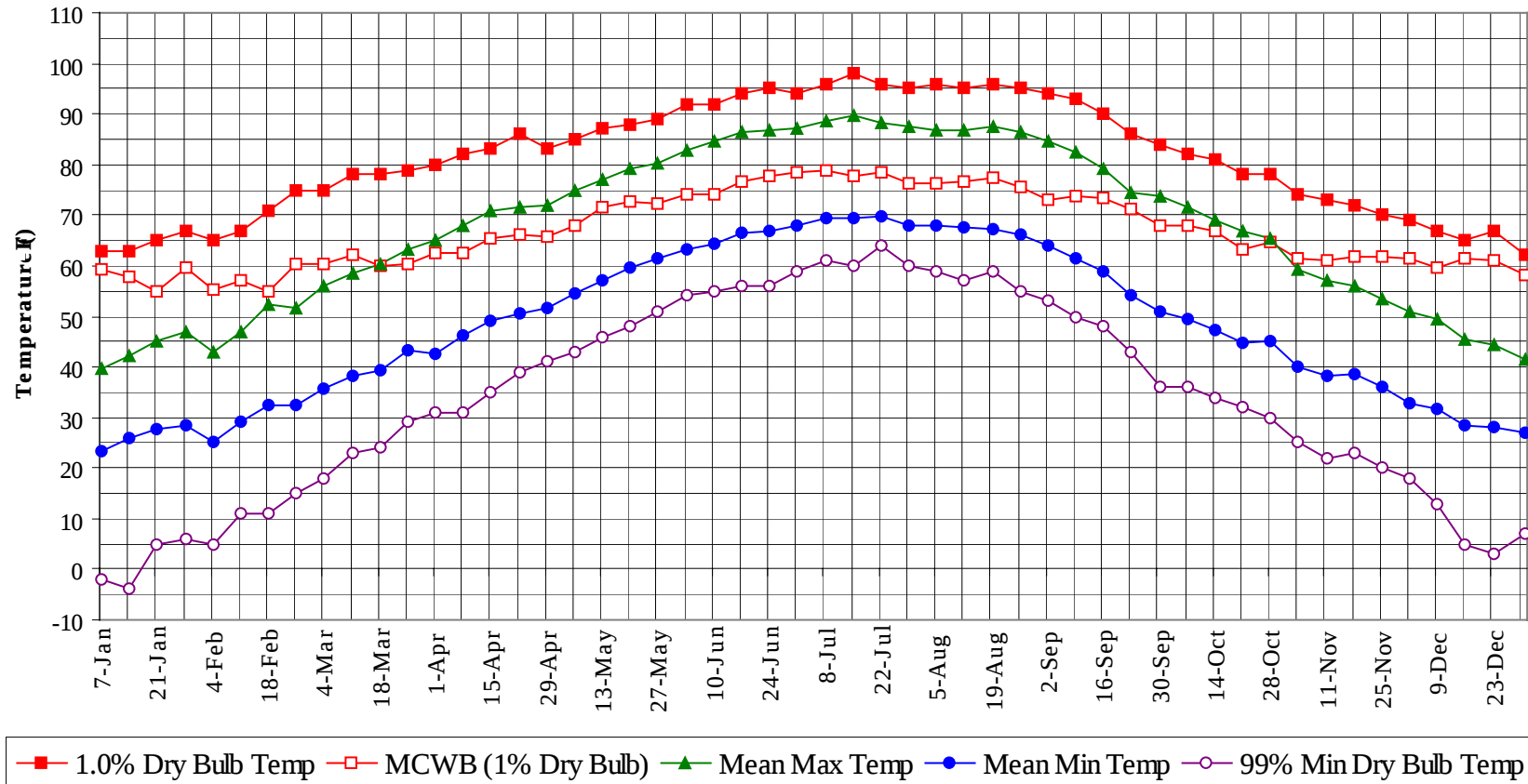
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Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1967 to 1996

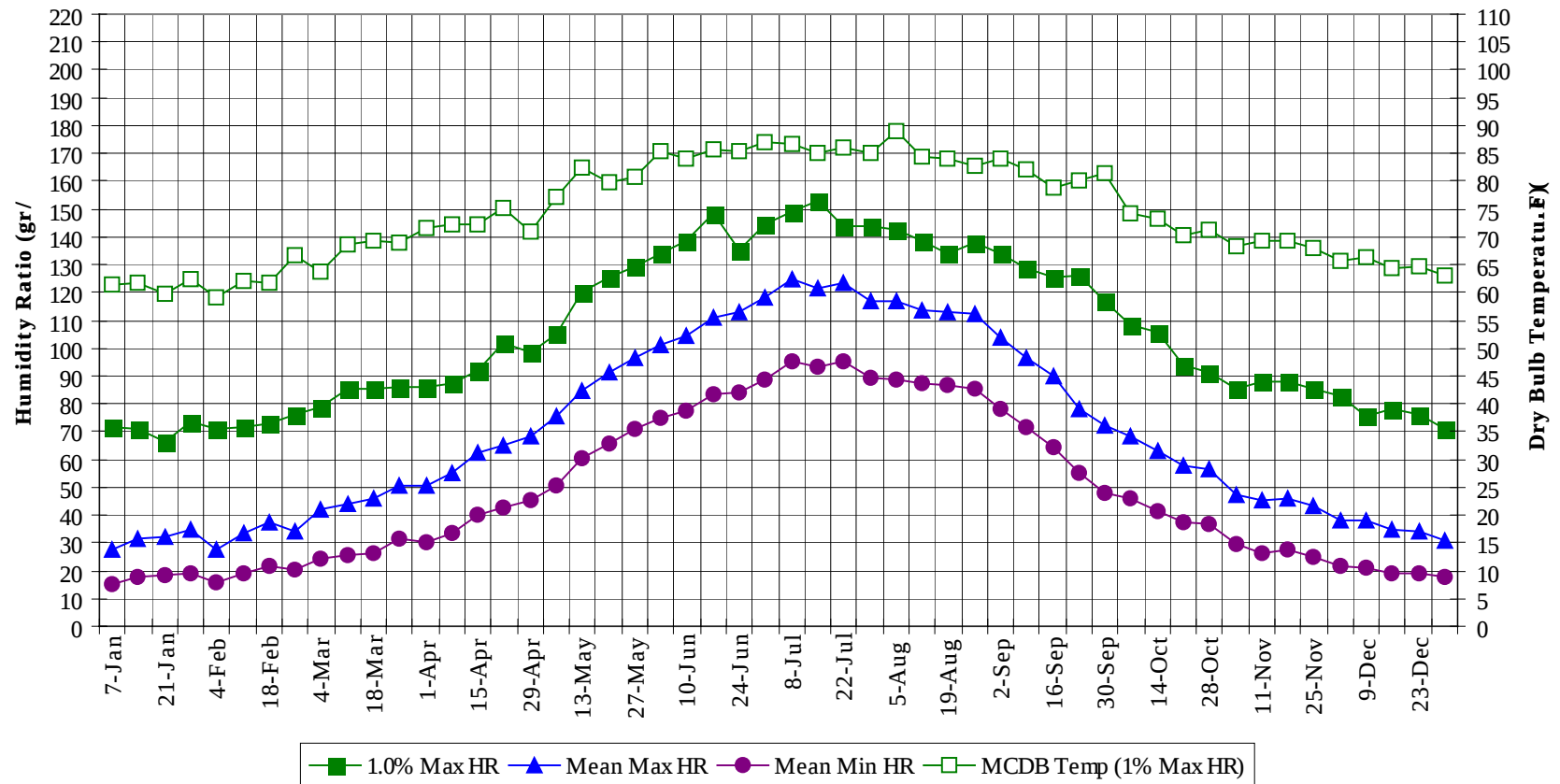
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		3	0	3	78.0
95 / 99		25	4	29	77.2
90 / 94	0	126	23	149	75.9
85 / 89	4	259	75	338	73.7
80 / 84	33	331	167	530	71.1
75 / 79	156	305	297	757	68.8
70 / 74	366	272	353	992	66.0
65 / 69	342	229	294	866	61.3
60 / 64	301	218	267	786	56.4
55 / 59	258	204	240	702	51.7
50 / 54	240	188	216	643	46.9
45 / 49	224	178	211	613	42.5
40 / 44	226	176	211	613	38.0
35 / 39	221	151	191	563	33.7
30 / 34	213	114	167	494	29.3
25 / 29	156	65	102	322	24.6
20 / 24	77	38	49	165	19.9
15 / 19	48	18	31	97	15.4
10 / 14	28	10	14	52	10.7
5 / 9	16	4	6	27	6.1
0 / 4	6	2	3	11	1.4
-5 / -1	2	1	1	4	-3.0
-10 / -6	1	0	1	2	-7.4
-15 / -11	1	0	0	2	-11.6
-20 / -16	0			0	-15.0

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



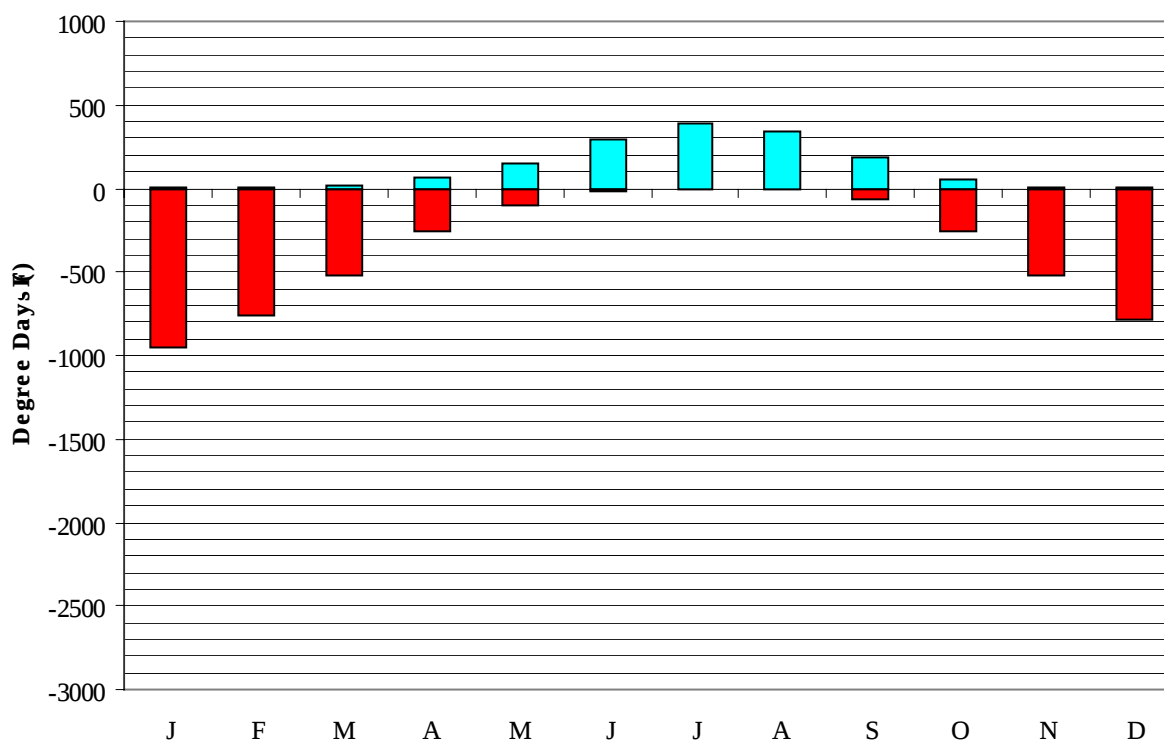
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Long Term Dry Bulb Temperature and Humidity Summary

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	63.0	59.3	39.7	23.3	-2.0	71.4	61.3	27.9	14.8
14-Jan	63.0	57.7	42.3	25.9	-4.0	70.7	61.8	31.3	17.9
21-Jan	65.0	54.9	44.9	27.7	5.0	66.5	59.7	32.3	18.3
28-Jan	67.0	59.6	46.8	28.5	6.0	73.5	62.2	34.6	19.1
4-Feb	65.0	55.4	43.0	25.2	5.0	70.7	59.0	27.8	15.7
11-Feb	67.0	57.1	46.8	29.2	11.0	71.4	62.0	33.4	19.1
18-Feb	71.0	54.8	52.2	32.3	11.0	72.8	61.6	37.5	21.4
25-Feb	75.0	60.2	51.5	32.6	15.0	76.3	66.7	34.2	20.1
4-Mar	75.0	60.4	56.1	35.6	18.0	79.1	63.7	41.8	24.4
11-Mar	78.0	62.0	58.5	38.0	23.0	85.4	68.6	44.0	25.6
18-Mar	78.0	60.0	60.4	39.4	24.0	85.4	69.4	46.2	26.0
25-Mar	79.0	60.2	63.3	43.2	29.0	86.1	69.0	50.7	31.4
1-Apr	80.0	62.6	64.9	42.7	31.0	86.1	71.5	50.9	30.0
8-Apr	82.0	62.4	68.0	46.0	31.0	87.5	72.2	55.4	33.8
15-Apr	83.0	65.2	70.7	49.2	35.0	91.7	72.1	62.1	40.2
22-Apr	86.0	66.1	71.7	50.7	39.0	101.5	75.1	65.0	42.6
29-Apr	83.0	65.9	71.9	51.8	41.0	98.7	70.9	68.0	45.4
6-May	85.0	68.1	75.0	54.4	43.0	105.0	77.2	75.4	50.7
13-May	87.0	71.6	77.1	57.1	46.0	120.4	82.4	84.8	60.2
20-May	88.0	72.7	79.2	59.6	48.0	125.3	79.9	91.0	65.8
27-May	89.0	72.2	80.3	61.4	51.0	129.5	80.7	96.6	71.0
3-Jun	92.0	74.2	82.8	63.2	54.0	133.7	85.5	101.4	74.8
10-Jun	92.0	74.0	84.8	64.5	55.0	138.6	84.0	104.4	77.4
17-Jun	94.0	76.8	86.3	66.4	56.0	148.4	85.6	111.1	83.5
24-Jun	95.0	77.6	86.8	66.8	56.0	135.1	85.2	113.0	84.1
1-Jul	94.0	78.6	87.0	68.0	59.0	144.2	86.9	118.3	88.8
8-Jul	96.0	78.8	88.7	69.6	61.0	149.1	86.7	124.7	95.3
15-Jul	98.0	77.9	89.6	69.5	60.0	153.3	85.1	121.2	93.1
22-Jul	96.0	78.4	88.3	69.8	64.0	143.5	86.2	123.3	95.3
29-Jul	95.0	76.3	87.5	67.8	60.0	143.5	84.9	117.0	89.4
5-Aug	96.0	76.2	86.8	67.8	59.0	142.8	88.9	116.7	88.9
12-Aug	95.0	76.6	86.6	67.4	57.0	138.6	84.5	113.8	87.4
19-Aug	96.0	77.4	87.6	67.1	59.0	133.7	84.1	113.0	86.6
26-Aug	95.0	75.7	86.3	66.3	55.0	137.9	82.9	112.1	85.2
2-Sep	94.0	73.0	84.5	64.0	53.0	133.7	84.2	103.8	78.1
9-Sep	93.0	73.7	82.3	61.3	50.0	128.8	82.1	96.7	71.5
16-Sep	90.0	73.2	79.3	58.7	48.0	125.3	79.0	90.0	64.6
23-Sep	86.0	71.1	74.6	54.2	43.0	126.0	80.3	78.3	55.1
30-Sep	84.0	68.1	73.6	51.0	36.0	116.9	81.5	72.0	48.2
7-Oct	82.0	68.0	71.4	49.4	36.0	108.5	74.2	68.3	46.0
14-Oct	81.0	66.9	69.0	47.3	34.0	105.7	73.2	62.9	41.2
21-Oct	78.0	63.1	66.9	44.9	32.0	93.8	70.2	57.5	37.3
28-Oct	78.0	64.9	65.4	45.1	30.0	91.0	71.1	56.5	36.8
4-Nov	74.0	61.6	59.2	40.2	25.0	85.4	68.2	47.6	29.3
11-Nov	73.0	61.0	57.1	38.1	22.0	88.2	69.2	45.1	26.4
18-Nov	72.0	61.7	56.1	38.4	23.0	88.2	69.2	45.8	27.8
25-Nov	70.0	61.7	53.6	36.2	20.0	85.4	68.0	43.6	25.2
2-Dec	69.0	61.4	50.8	32.8	18.0	82.6	65.6	37.9	21.7
9-Dec	67.0	59.5	49.4	31.5	13.0	75.6	66.4	38.2	21.0
16-Dec	65.0	61.4	45.5	28.3	5.0	78.4	64.3	34.8	18.8
23-Dec	67.0	61.2	44.3	28.2	3.0	76.3	64.8	33.9	19.1
31-Dec	62.0	58.0	41.6	27.0	7.0	70.7	63.2	30.9	17.8

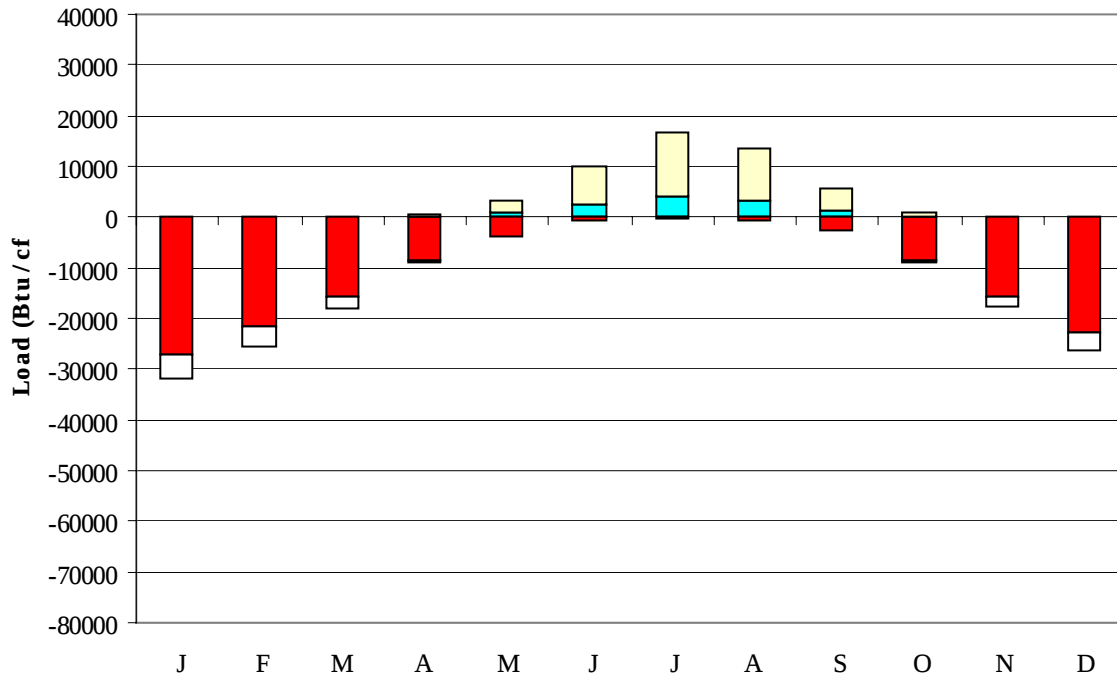
Degree Days, Heating and Cooling
(Base 65°F)



Mean Cooling Degree Days Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	1	954
FEB	3	757
MAR	20	522
APR	61	258
MAY	144	96
JUN	292	16
JUL	390	3
AUG	344	9
SEP	189	70
OCT	54	260
NOV	11	520
DEC	2	782
ANN	1509	4247

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 (Drying) Load	■ Average Latent Heating (Humidifying) Load

	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	-27136	2	-4889
FEB	3	-21764	3	-3935
MAR	53	-15705	41	-2218
APR	290	-8423	241	-702
MAY	906	-3657	2545	-41
JUN	2668	-778	7301	-1
JUL	4111	-231	12436	0
AUG	3381	-482	10032	0
SEP	1450	-2673	4281	-7
OCT	207	-8491	634	-376
NOV	9	-15653	79	-1936
DEC	0	-22581	15	-3690
ANN	13078	-127574	37610	-17795

Average Annual Solar Radiation – Nearest Available Site

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

City: NASHVILLE
 State: TN
 WBAN No: 13897
 Lat(N): 36.12
 Long(W): 86.68
 Elev(ft): 591

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.424
 Vert Gap: 0.295

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	730	980	1290	1700	1910	2070	1980	1810	1480	1190	790	630	1380
	Std Dev	68	84	129	126	142	133	133	106	110	100	69	66	48
	Minimum	580	850	1120	1460	1560	1650	1550	1590	1300	1030	630	520	1270
	Maximum	850	1190	1600	2050	2230	2280	2250	2000	1720	1420	950	750	1470
	Diffuse	370	470	600	720	860	930	940	850	690	490	380	310	640
Clear Day	Global	1060	1400	1850	2280	2530	2610	2530	2290	1920	1470	1100	940	1830
NORTH	Global	230	290	360	450	560	640	610	510	410	320	240	200	400
	Diffuse	230	290	360	440	520	560	550	490	410	320	240	200	380
Clear Day	Global	210	260	340	430	580	680	630	480	380	290	230	190	390
EAST	Global	470	600	770	970	1050	1110	1080	1010	850	720	490	400	790
	Diffuse	270	340	440	540	620	670	670	620	510	390	280	230	470
Clear Day	Global	770	950	1180	1340	1410	1410	1380	1300	1150	950	760	680	1110
SOUTH	Global	1030	1100	1050	970	800	740	770	910	1050	1230	1030	950	970
	Diffuse	370	430	500	550	570	590	600	600	560	480	380	330	500
Clear Day	Global	1980	1960	1720	1290	950	810	860	1120	1500	1780	1870	1890	1480
WEST	Global	480	620	770	960	1030	1090	1050	990	850	720	500	420	790
	Diffuse	270	350	450	550	630	670	670	620	520	400	290	230	470
Clear Day	Global	770	950	1180	1340	1410	1410	1380	1300	1150	950	760	680	1110

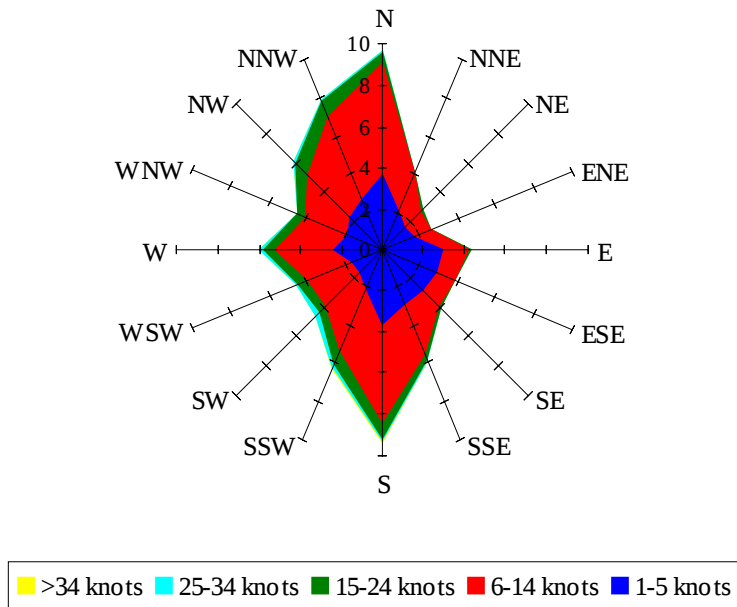
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	490	680	920	1230	1390	1500	1440	1310	1060	840	530	410	990
NORTH	Unshaded	160	200	250	310	370	420	400	350	280	220	160	140	270
	Shaded	140	180	230	280	340	380	360	320	260	200	150	120	250
EAST	Unshaded	320	420	540	690	750	790	760	720	600	510	340	280	560
	Shaded	290	380	490	610	660	700	670	640	540	460	310	250	500
SOUTH	Unshaded	760	800	720	620	490	450	470	570	700	870	770	720	660
	Shaded	740	740	590	440	370	370	380	410	540	780	740	700	570
WEST	Unshaded	330	430	550	680	730	770	740	700	600	510	350	290	560
	Shaded	300	390	490	610	650	680	660	620	540	460	320	260	500

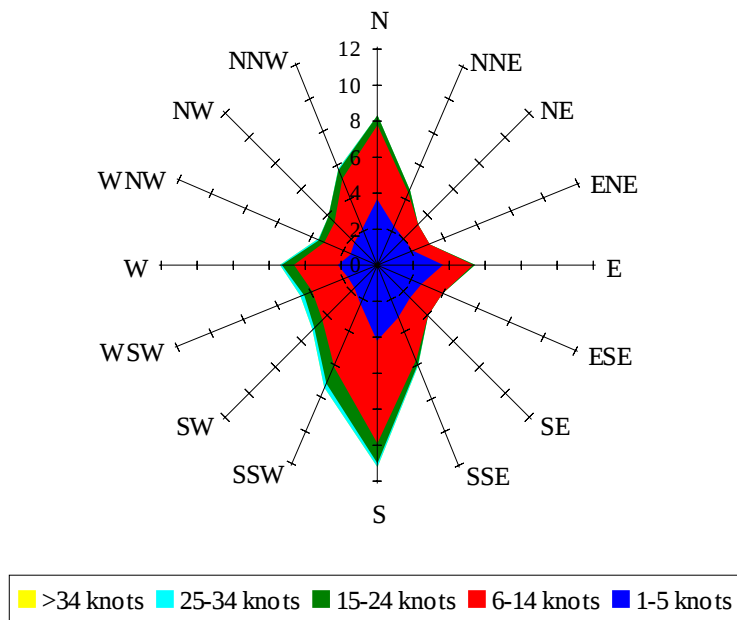
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	49	81	87	64	23	52	89	103	93	61
	M.Cloudy	27	48	52	38	13	36	66	81	71	44
NORTH	M.Clear	11	15	15	13	7	20	18	18	18	17
	M.Cloudy	11	16	17	14	6	16	19	20	20	16
EAST	M.Clear	79	53	15	13	7	75	69	25	18	16
	M.Cloudy	28	30	17	14	6	40	49	25	20	15
SOUTH	M.Clear	45	74	80	59	21	14	31	42	35	16
	M.Cloudy	19	37	41	29	9	13	27	36	30	15
WEST	M.Clear	11	15	31	72	60	14	18	18	58	74
	M.Cloudy	11	16	23	33	19	13	19	20	45	45
M.Clear	(% hrs)	32	30	29	30	32	46	40	34	34	41
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	34	74	88	77	41	24	50	53	30	1
	M.Cloudy	21	47	60	54	28	12	27	29	16	1
NORTH	M.Clear	11	17	18	17	12	7	11	11	8	1
	M.Cloudy	9	16	19	17	11	5	11	11	7	1
EAST	M.Clear	64	66	23	17	12	51	37	11	8	1
	M.Cloudy	25	36	21	17	11	13	17	11	7	1
SOUTH	M.Clear	24	57	71	61	30	51	86	90	60	2
	M.Cloudy	13	33	45	39	18	13	29	32	18	1
WEST	M.Clear	11	17	18	58	66	7	11	29	52	4
	M.Cloudy	9	16	19	38	33	5	11	16	16	1
M.Clear	(% hrs)	44	44	39	38	44	30	29	31	33	35

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



Percent Calm = 14.71

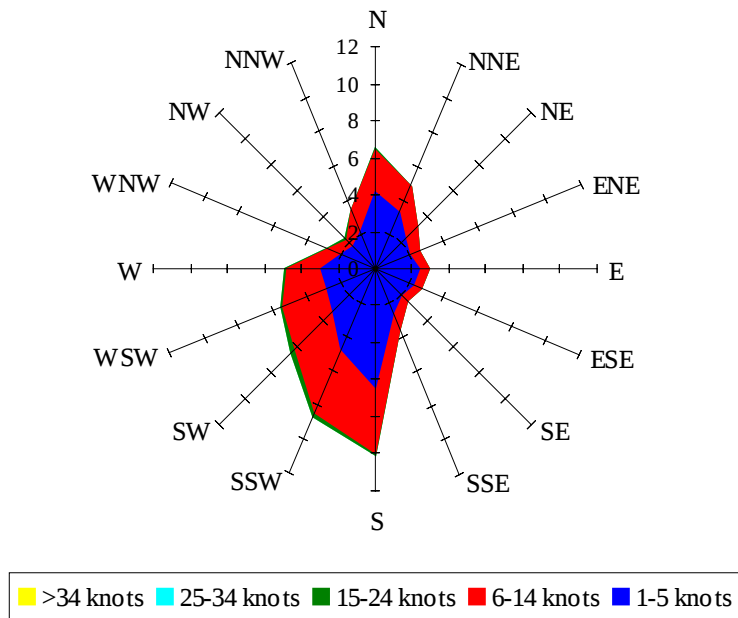
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 16.22

Wind Summary - June, July, and August

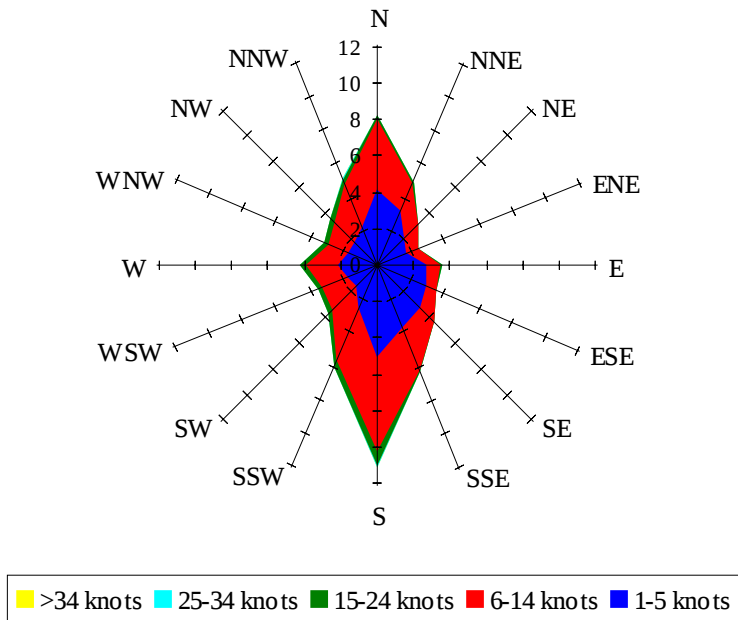
Labels of Percent Frequency on North Axis



Percent Calm = 27.15

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 24.17