

LEXINGTON/BUEGRASS KY

Latitude = 38.03 N

WMO No. 724220

Longitude = 84.60 W

Elevation = 988 feet

Period of Record = 1973 to 1996

Average Pressure = 28.97 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	93	75	105	8.6	W
0.4% Occurrence	91	75	107	8.4	W
1.0% Occurrence	89	74	106	8.4	SW
2.0% Occurrence	87	73	105	8.5	SW
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	17	15	9	8.6	W
99.0% Occurrence	10	9	7	8.2	W
99.6% Occurrence	4	3	5	8.0	W
Median of Extreme Lows	-1	-2	3	8.7	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	79	89	134	8.2	W
0.4% Occurrence	77	87	126	8.3	SW
1.0% Occurrence	76	86	122	8.3	SW
2.0% Occurrence	75	84	119	8.1	SW
	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	141	86	0.90	8.5	SW
0.4% Occurrence	132	83	0.85	7.9	WSW
1.0% Occurrence	127	82	0.82	7.5	SW
2.0% Occurrence	123	80	0.79	7.3	SW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		18	724	459	1719

Other Site Data

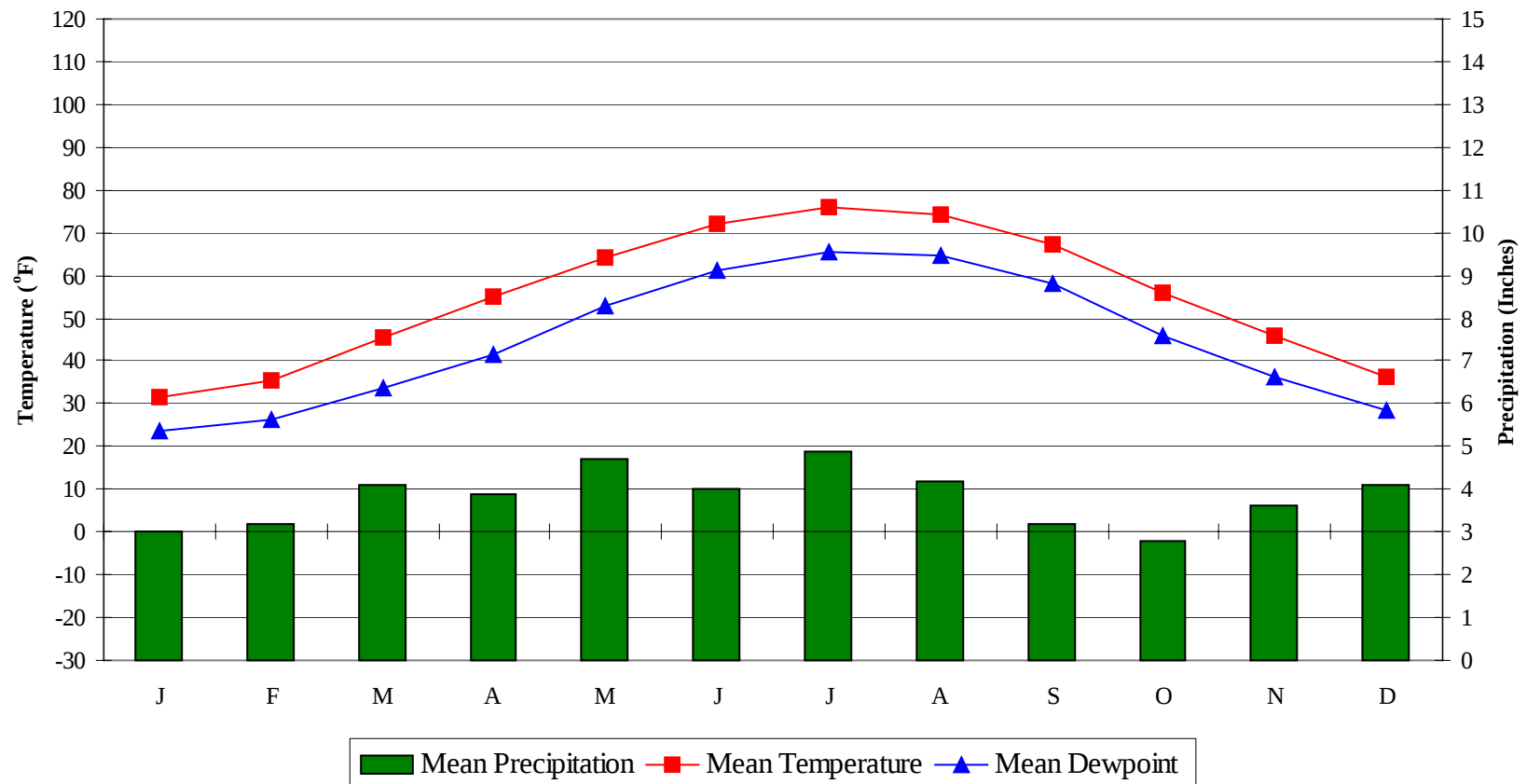
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
7	3.0	90	2.5 + 0.7
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
57.4	32	13	49

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

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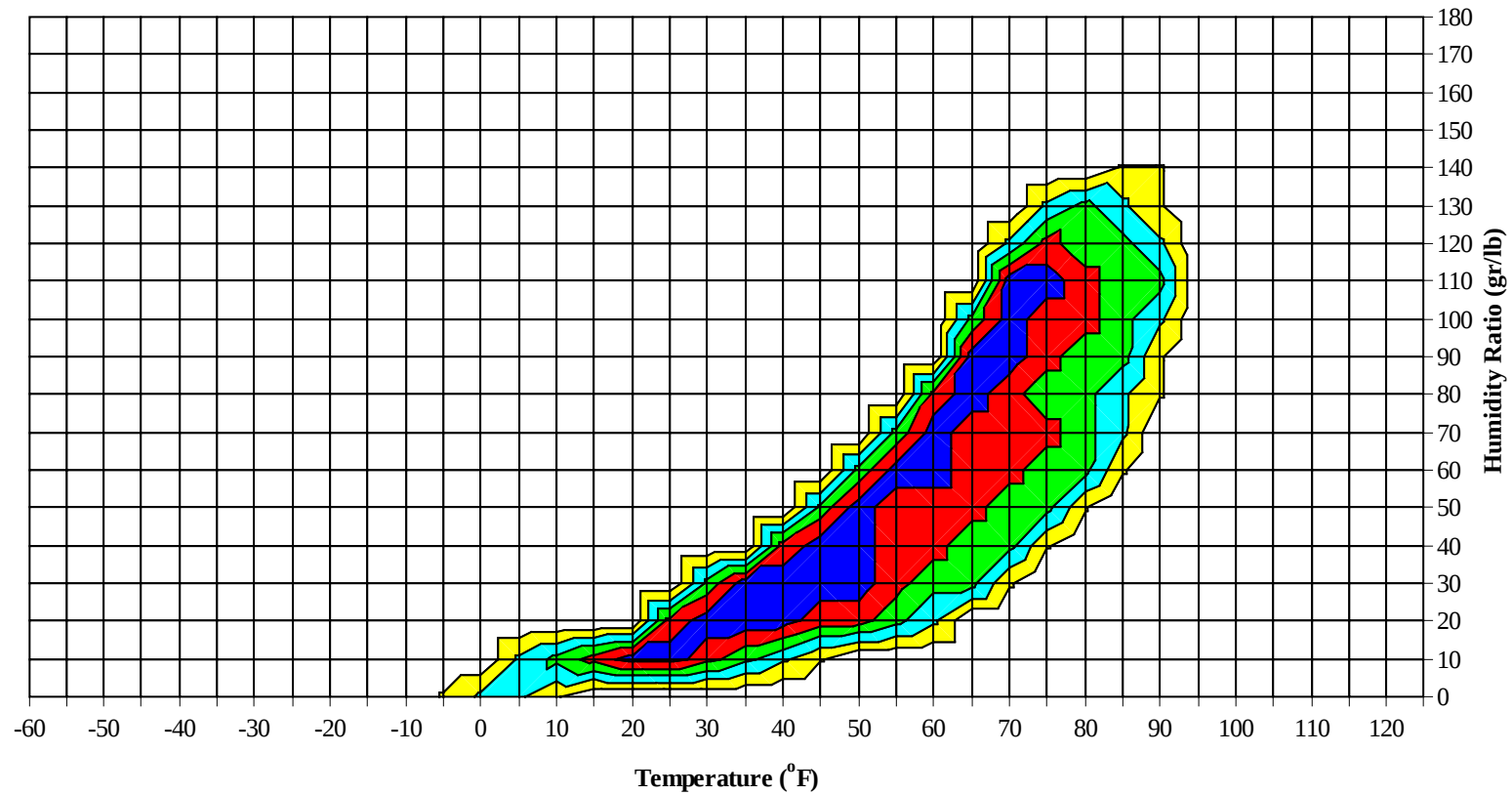
Average Annual Climate



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Long Term Psychrometric Summary

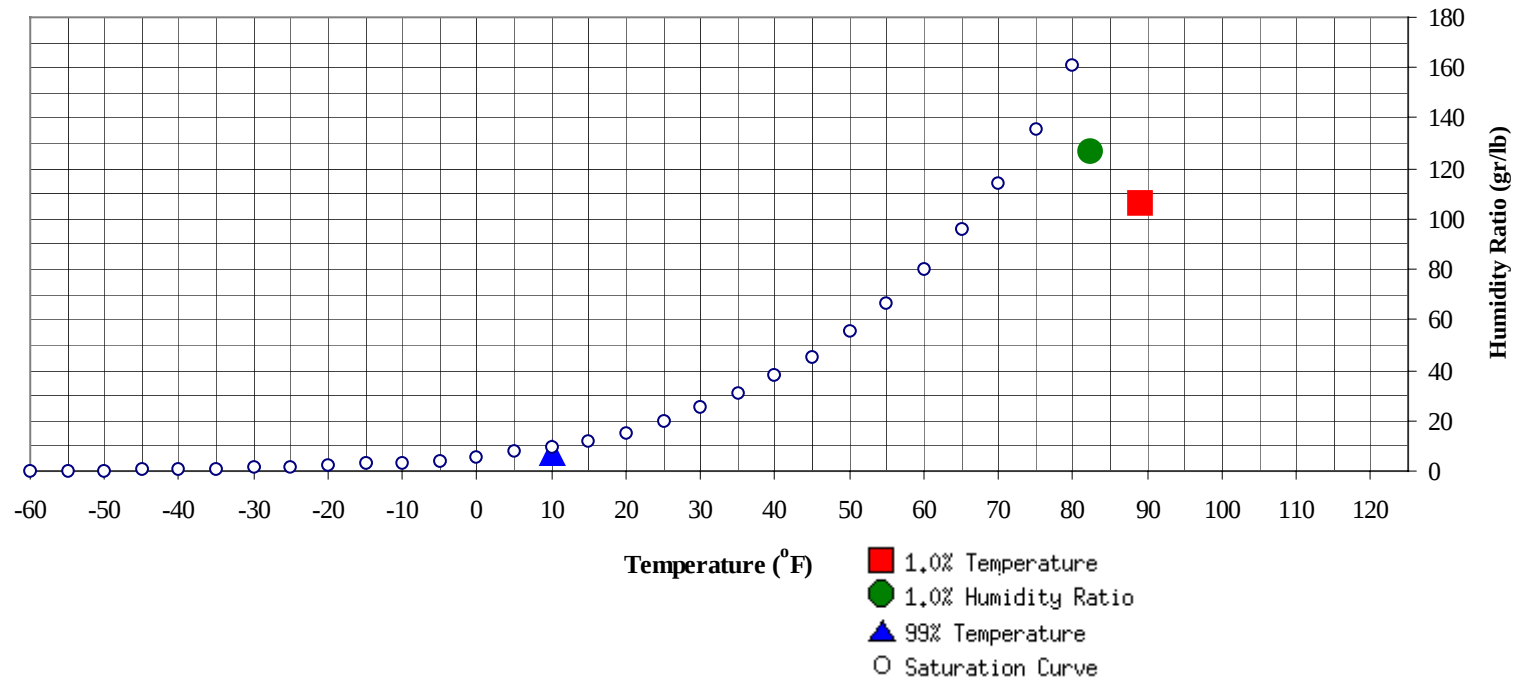


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	10	6.8	3.4		126.7	82.2	75.5	73	39.6

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	89	106.5	74	38.1

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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															
80 / 84												1	0	1	62.2
75 / 79							0	0	0	61.8		6	2	8	60.6
70 / 74							1	0	1	58.3	0	13	6	19	58.7
65 / 69	0	1	0	1	57.8		5	2	7	54.4	4	17	15	36	56.4
60 / 64	1	4	2	7	54.6	2	11	6	19	53.0	10	23	20	53	53.6
55 / 59	4	7	7	18	51.7	9	14	13	36	50.6	21	29	28	78	50.2
50 / 54	8	13	12	33	47.0	11	18	19	48	46.5	24	33	34	91	46.1
45 / 49	14	19	18	51	42.7	15	24	23	62	42.0	31	32	35	98	41.8
40 / 44	17	28	23	68	38.3	21	27	28	76	37.8	33	29	36	98	37.6
35 / 39	33	43	42	118	34.1	32	29	34	95	33.5	40	28	30	98	33.5
30 / 34	49	47	51	147	29.7	42	32	34	108	29.4	41	23	25	89	29.5
25 / 29	42	30	33	105	24.8	32	25	25	82	24.8	24	7	11	42	24.8
20 / 24	27	21	24	72	20.3	19	15	16	50	20.0	13	4	4	21	20.1
15 / 19	21	15	18	54	15.6	15	12	15	42	15.4	4	1	1	6	15.5
10 / 14	13	8	9	30	10.9	13	6	6	25	10.9	2	1	1	4	10.9
5 / 9	8	5	5	18	5.9	9	3	2	14	6.3	0	0	0	0	5.6
0 / 4	6	3	3	12	1.3	3	1	1	5	1.7	0			0	1.5
-5 / -1	2	1	1	4	-3.2	1	0	0	1	-3.2					
-10 / -6	2	1	1	4	-7.6	0	0		0	-8.3					
-15 / -11	1	0	0	1	-12.3										
-20 / -16	0	0	0	0	-16.9										
-25 / -21	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 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															
95 / 99												1	0	1	71.4
90 / 94												5	2	7	72.4
85 / 89		1	0	1	66.2		0	0	0	72.9		38	15	53	72.1
80 / 84		8	3	11	64.2		26	11	37	68.8	1	60	33	94	70.5
75 / 79		18	8	26	62.9	1	44	25	69	66.1	11	63	53	127	68.1
70 / 74	1	29	19	49	59.9	13	51	46	109	63.3	60	43	67	169	66.3
65 / 69	12	31	32	76	57.4	44	46	54	144	60.8	79	20	43	142	63.1
60 / 64	34	37	38	110	54.4	58	35	46	140	56.9	49	7	20	76	58.4
55 / 59	31	32	34	98	50.0	44	19	30	94	52.2	26	2	6	34	53.8
50 / 54	36	31	35	103	45.8	40	13	21	74	48.2	12	0	2	14	49.8
45 / 49	38	26	31	95	42.1	30	5	10	45	44.2	3		0	3	45.5
40 / 44	42	15	22	79	38.0	14	1	3	18	39.9	0			0	43.1
35 / 39	24	7	11	42	33.9	4	0	0	4	35.0					
30 / 34	17	3	4	24	29.8	0		0	0	31.4					
25 / 29	5	0	0	5	25.1										
20 / 24	1		0	1	20.7										
15 / 19	0			0	17.7										
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															

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WMO No. 724220

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		0	0	0	69.7		0	0	0	75.5					
95 / 99		3	1	4	74.7		2	0	2	75.0		0		0	71.0
90 / 94		22	8	30	75.2		15	5	20	74.9		3	1	4	72.9
85 / 89	0	56	26	82	73.9	0	47	20	67	73.6	0	18	4	22	71.9
80 / 84	3	73	46	122	71.6	1	67	39	106	71.4	0	36	14	50	70.1
75 / 79	33	57	67	157	70.1	20	64	65	148	69.6	3	50	34	87	67.7
70 / 74	104	30	69	203	68.2	90	39	73	202	68.1	39	53	60	151	66.0
65 / 69	68	5	25	98	64.3	72	11	33	116	64.2	52	36	49	137	62.7
60 / 64	30	1	6	37	59.3	45	3	12	60	59.7	50	25	36	111	58.2
55 / 59	9		0	9	55.0	16	0	2	18	55.0	41	12	23	76	53.7
50 / 54	1			1	50.6	3	0	0	3	50.5	33	5	13	51	49.7
45 / 49						0	0		0	43.3	17	1	5	23	45.1
40 / 44											6	0	1	7	40.8
35 / 39											1			1	36.7
30 / 34															
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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LEXINGTON/BUEGRASS KY

WMO No. 724220

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		0		0	65.0										
80 / 84		5	1	6	67.3				0	59.8					
75 / 79	0	19	5	24	64.9			0	2	64.4			0	0	64.0
70 / 74	2	37	19	58	62.1			10	2	61.2			1	0	62.7
65 / 69	11	40	33	84	59.7	4	18	10	32	58.9	0	3	1	4	59.5
60 / 64	35	44	46	125	56.3	16	25	24	65	56.3	5	9	8	22	56.8
55 / 59	37	36	42	116	51.7	22	28	25	75	51.7	10	18	12	40	52.7
50 / 54	42	34	40	116	47.4	23	33	31	87	47.0	14	19	17	50	47.7
45 / 49	46	20	34	100	43.2	31	34	34	99	42.6	16	29	24	69	42.6
40 / 44	36	8	20	64	39.2	33	32	38	103	38.4	25	35	36	96	38.6
35 / 39	25	2	7	34	34.7	37	31	36	104	33.8	39	44	43	127	34.0
30 / 34	12	1	2	15	30.8	39	19	26	84	29.5	46	37	44	128	29.6
25 / 29	2		0	2	25.4	23	4	11	38	25.1	36	24	29	89	24.9
20 / 24	0			0	22.3	10	1	2	13	20.9	23	12	14	49	20.4
15 / 19						3	1	1	5	16.5	16	9	10	35	15.6
10 / 14						0	0	0	0	9.6	7	4	5	16	10.8
5 / 9						0			0	5.9	5	2	3	10	6.4
0 / 4						0			0	4.0	3	1	1	5	1.5
-5 / -1											1	0	1	2	-2.7
-10 / -6											1	0	1	2	-8.1
-15 / -11											0	0	0	0	-11.2
-20 / -16											0	0		0	-17.0
-25 / -21															

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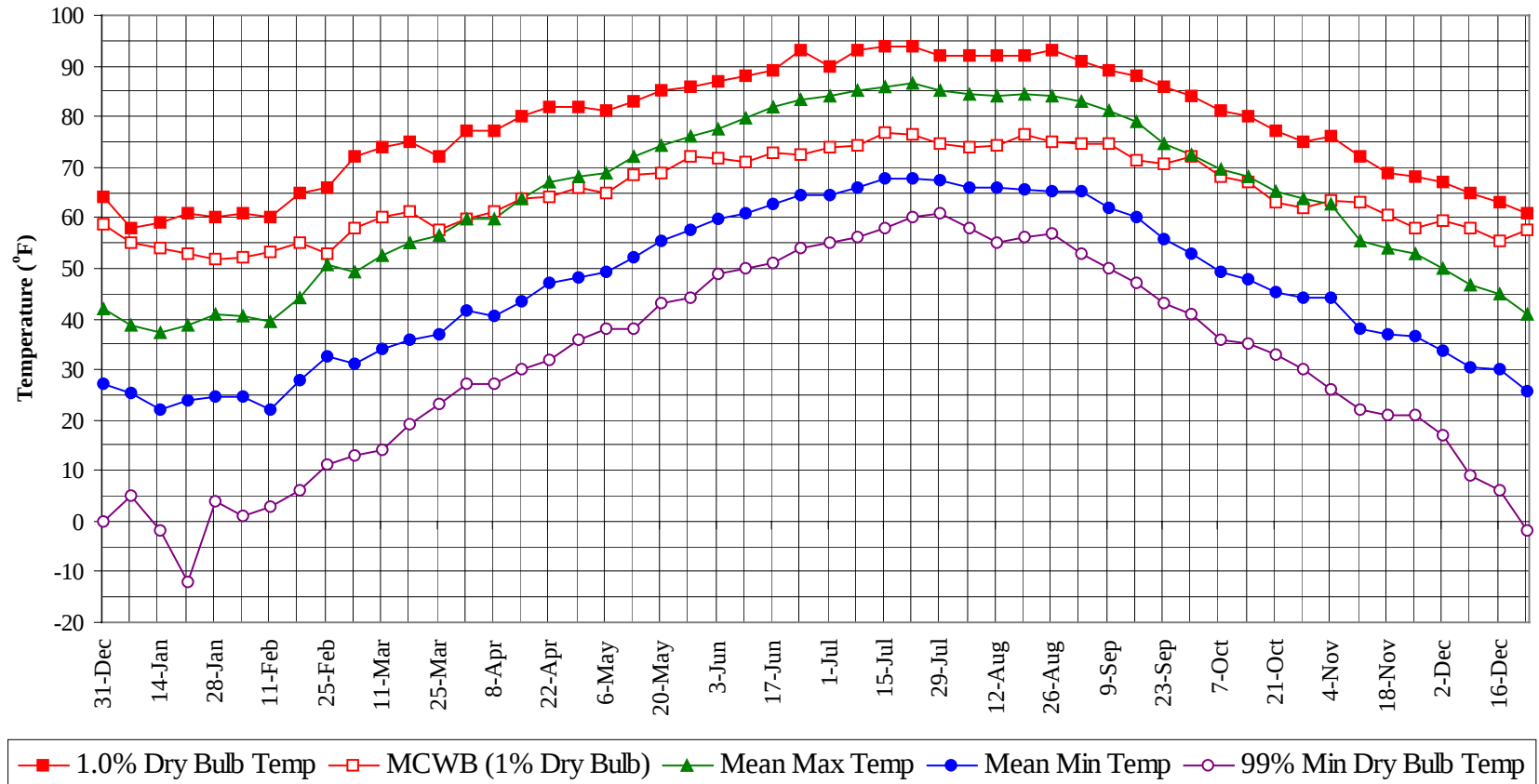
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

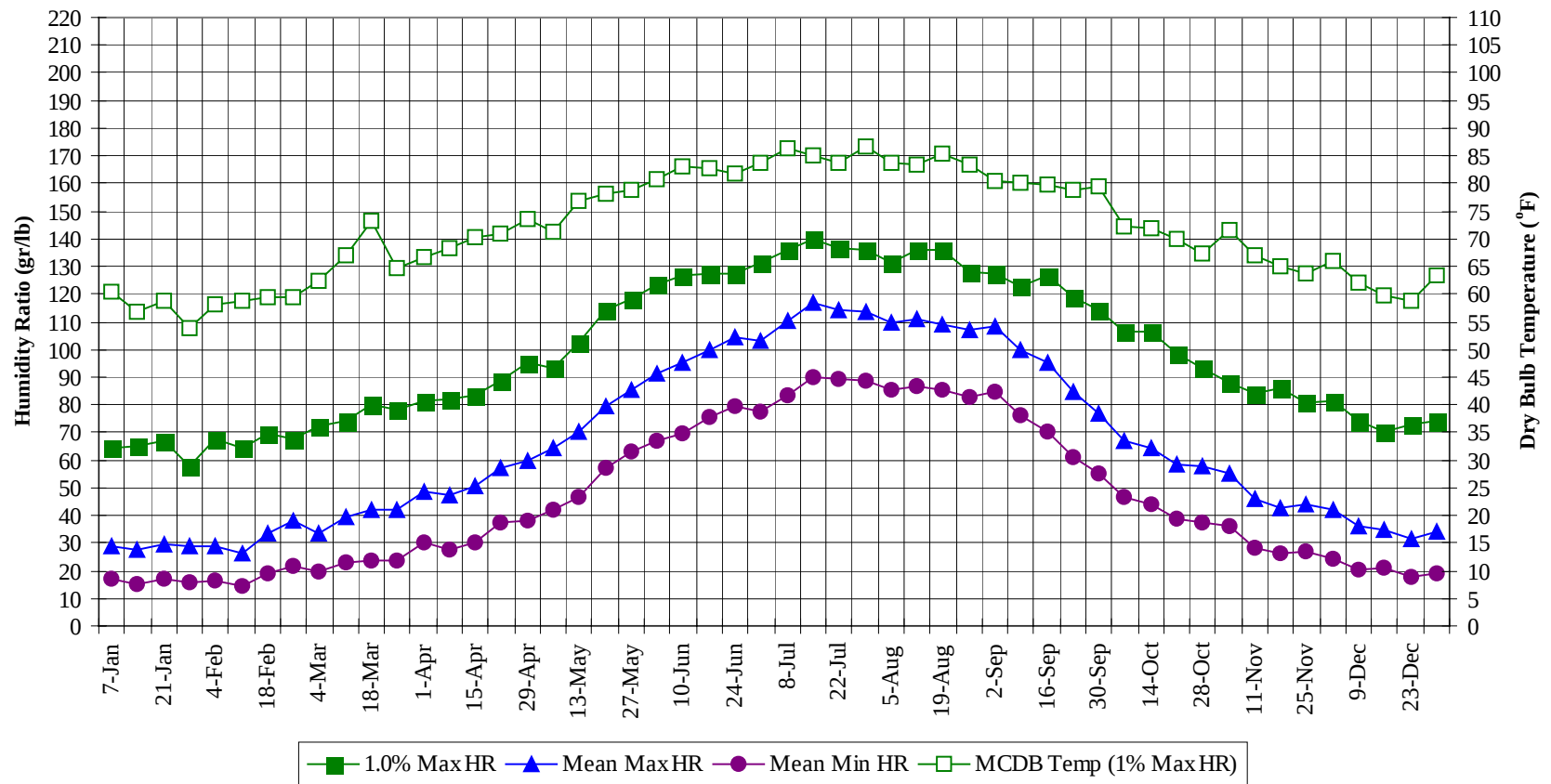
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		1	0	1	71.9
95 / 99		5	2	7	74.3
90 / 94		45	15	60	74.6
85 / 89	0	169	68	237	73.0
80 / 84	5	275	146	425	70.6
75 / 79	67	321	259	646	68.2
70 / 74	309	306	360	975	65.9
65 / 69	347	234	295	876	61.6
60 / 64	333	223	264	819	56.7
55 / 59	269	199	223	691	51.8
50 / 54	246	201	223	670	47.2
45 / 49	240	193	214	647	42.7
40 / 44	226	177	206	609	38.3
35 / 39	236	186	205	627	33.9
30 / 34	246	163	189	598	29.6
25 / 29	163	93	110	366	24.9
20 / 24	94	53	60	207	20.3
15 / 19	60	38	45	143	15.5
10 / 14	36	19	21	76	10.9
5 / 9	22	10	10	42	6.2
0 / 4	13	4	5	22	1.4
-5 / -1	4	2	1	7	-3.1
-10 / -6	3	1	1	5	-7.8
-15 / -11	2	1	1	4	-12.1
-20 / -16	1	0	0	1	-16.9
-25 / -21	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.

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

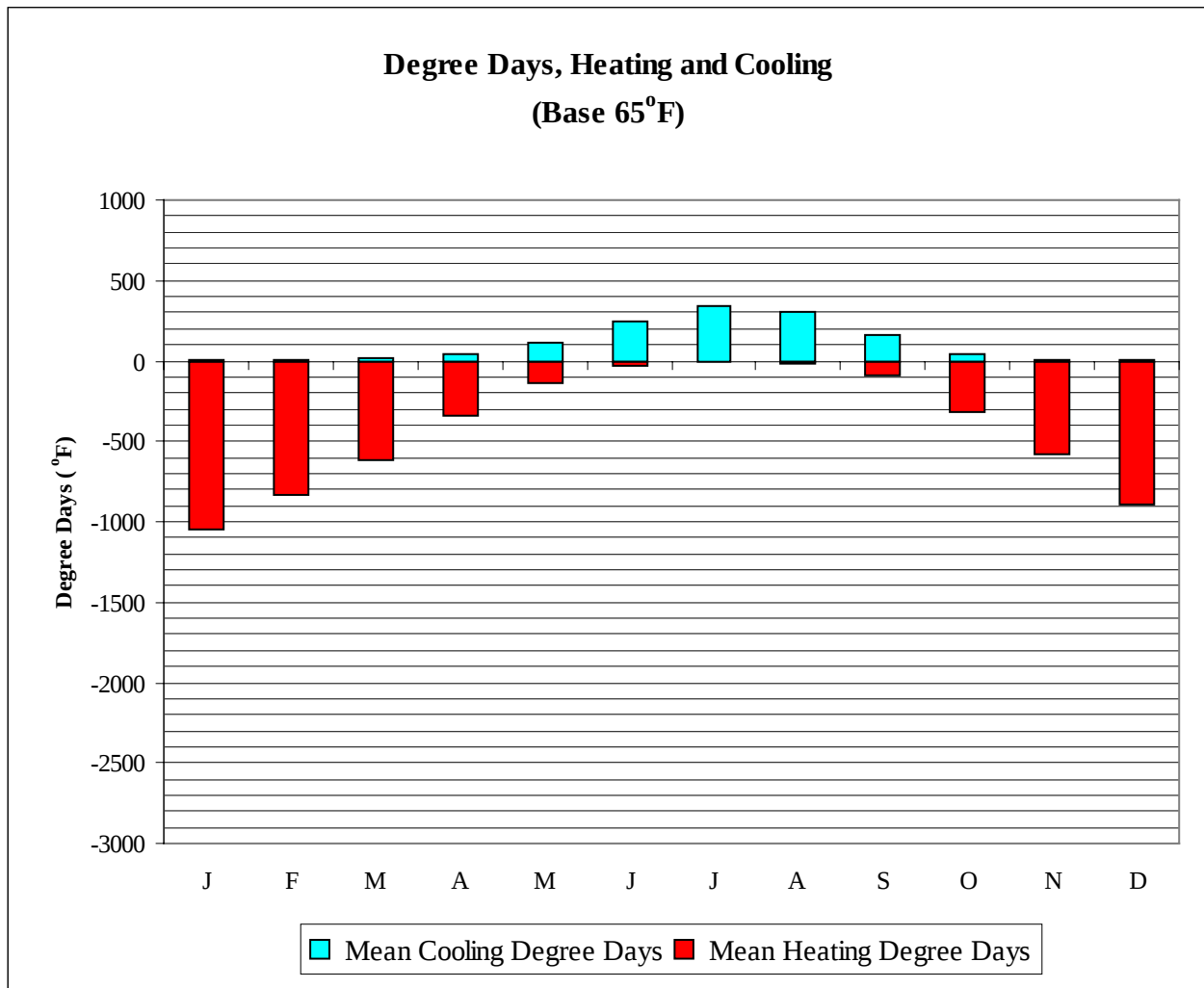


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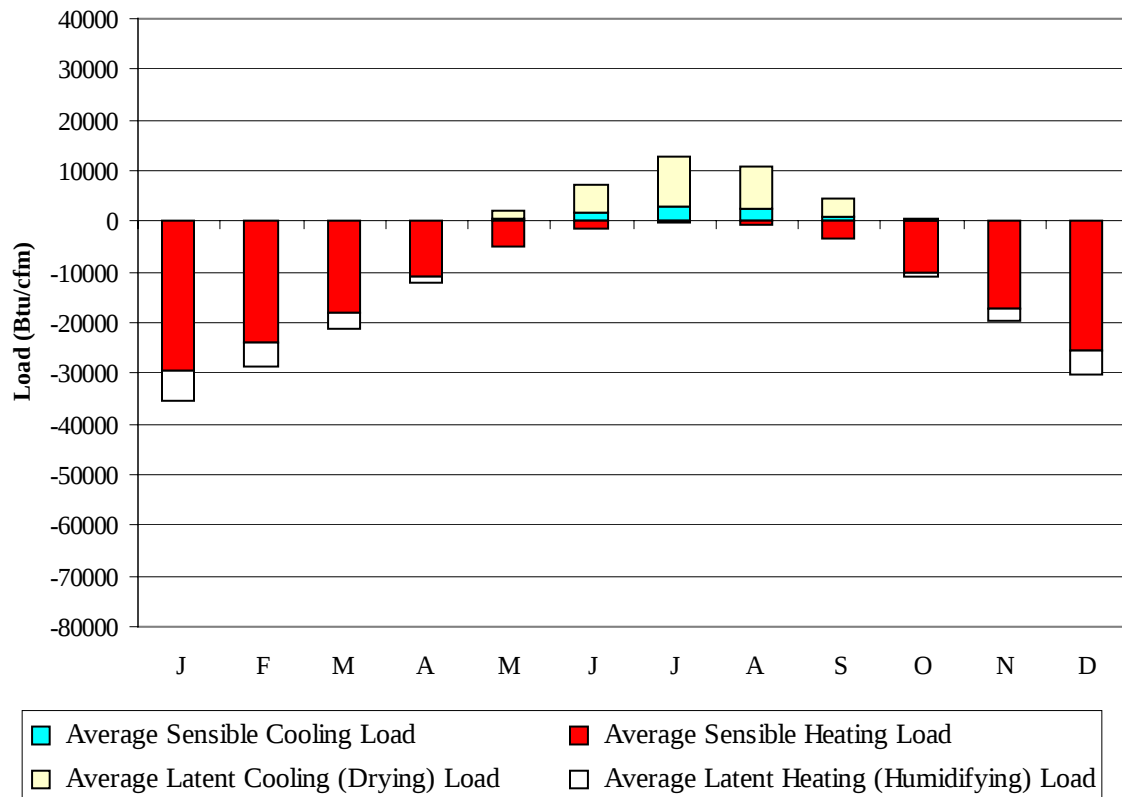
Long Term Dry Bulb Temperature and Humidity Summary

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	58.0	55.2	38.6	25.2	5.0	64.4	60.6	29.0	16.8
14-Jan	59.0	54.1	37.2	22.1	-2.0	65.1	56.9	27.3	14.8
21-Jan	61.0	52.9	38.6	23.8	-12.0	67.2	58.6	29.5	17.3
28-Jan	60.0	51.8	40.9	24.5	4.0	58.1	53.9	28.9	16.1
4-Feb	61.0	52.2	40.4	24.7	1.0	67.9	58.2	29.0	16.1
11-Feb	60.0	53.3	39.3	22.1	3.0	64.4	58.7	26.5	14.4
18-Feb	65.0	55.1	44.1	27.8	6.0	69.3	59.3	33.4	19.1
25-Feb	66.0	52.8	50.6	32.7	11.0	67.9	59.4	37.9	21.9
4-Mar	72.0	58.0	49.3	31.1	13.0	72.1	62.3	33.6	19.6
11-Mar	74.0	60.2	52.4	34.2	14.0	74.2	67.1	39.2	23.1
18-Mar	75.0	61.2	55.0	35.8	19.0	79.8	73.4	42.2	23.8
25-Mar	72.0	57.6	56.4	36.8	23.0	78.4	64.7	42.0	23.9
1-Apr	77.0	59.6	59.7	41.6	27.0	81.2	66.7	48.5	30.1
8-Apr	77.0	61.2	59.9	40.7	27.0	81.9	68.3	47.5	27.8
15-Apr	80.0	63.8	63.7	43.3	30.0	83.3	70.4	50.7	30.3
22-Apr	82.0	64.1	67.1	47.2	32.0	88.9	71.0	57.1	37.2
29-Apr	82.0	66.1	68.0	48.1	36.0	95.2	73.4	60.0	38.3
6-May	81.0	64.8	68.7	49.4	38.0	93.1	71.3	64.1	41.9
13-May	83.0	68.6	72.0	52.1	38.0	102.2	77.0	70.4	46.9
20-May	85.0	68.9	74.2	55.4	43.0	114.1	78.1	79.6	57.2
27-May	86.0	72.1	76.0	57.7	44.0	118.3	78.7	85.5	63.1
3-Jun	87.0	71.6	77.7	59.7	49.0	123.2	80.7	91.6	66.7
10-Jun	88.0	70.9	79.8	60.9	50.0	126.7	83.1	95.5	69.6
17-Jun	89.0	72.7	82.1	62.7	51.0	127.4	82.8	99.7	75.5
24-Jun	93.0	72.5	83.3	64.5	54.0	127.4	81.9	104.3	79.2
1-Jul	90.0	73.8	84.0	64.5	55.0	131.6	83.6	102.8	77.8
8-Jul	93.0	74.3	85.1	66.1	56.0	135.8	86.4	110.3	83.2
15-Jul	94.0	77.0	85.9	67.7	58.0	140.0	85.2	117.0	89.8
22-Jul	94.0	76.5	86.4	67.6	60.0	136.5	83.6	114.1	89.2
29-Jul	92.0	74.7	85.3	67.3	61.0	135.8	86.7	113.5	88.4
5-Aug	92.0	73.8	84.5	66.0	58.0	131.6	83.7	109.5	85.1
12-Aug	92.0	74.3	84.0	65.9	55.0	135.8	83.5	111.2	86.7
19-Aug	92.0	76.6	84.2	65.7	56.0	135.8	85.3	109.2	85.3
26-Aug	93.0	74.9	84.1	65.2	57.0	128.1	83.4	107.3	83.1
2-Sep	91.0	74.8	83.1	65.2	53.0	127.4	80.5	108.4	84.6
9-Sep	89.0	74.7	81.2	62.0	50.0	122.5	80.0	99.8	76.4
16-Sep	88.0	71.4	79.1	60.2	47.0	126.7	79.8	95.0	70.0
23-Sep	86.0	70.6	74.5	55.7	43.0	119.0	78.7	84.5	60.9
30-Sep	84.0	71.9	72.3	53.0	41.0	114.1	79.6	76.6	55.0
7-Oct	81.0	67.9	69.6	49.2	36.0	106.4	72.1	67.2	46.4
14-Oct	80.0	67.1	68.0	47.9	35.0	106.4	71.8	64.1	44.0
21-Oct	77.0	63.1	65.2	45.2	33.0	98.7	70.0	58.4	38.7
28-Oct	75.0	61.8	63.7	44.2	30.0	93.1	67.4	57.7	37.2
4-Nov	76.0	63.4	62.7	44.0	26.0	88.2	71.7	55.3	36.0
11-Nov	72.0	62.9	55.5	38.2	22.0	84.0	67.1	45.8	28.1
18-Nov	69.0	60.4	53.8	36.9	21.0	86.1	65.1	42.7	26.0
25-Nov	68.0	57.9	52.8	36.7	21.0	80.5	63.6	44.0	26.8
2-Dec	67.0	59.4	49.8	33.8	17.0	81.2	66.1	42.1	24.2
9-Dec	65.0	57.9	46.6	30.4	9.0	74.2	62.0	36.3	20.5
16-Dec	63.0	55.5	45.1	30.1	6.0	70.0	59.7	34.6	21.0
23-Dec	61.0	57.4	41.0	25.5	-2.0	72.8	58.7	31.7	17.4
31-Dec	64.0	58.6	42.0	27.1	0.0	74.2	63.5	34.3	19.4



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1044
FEB	1	833
MAR	12	615
APR	39	343
MAY	110	140
JUN	243	28
JUL	346	7
AUG	304	14
SEP	156	89
OCT	38	316
NOV	7	584
DEC	1	894
ANN	1256	4907

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	-29466	0	-5839
FEB	1	-23783	1	-4837
MAR	15	-18188	11	-2992
APR	127	-10797	89	-1146
MAY	496	-5035	1569	-100
JUN	1684	-1291	5408	0
JUL	2856	-416	9955	-1
AUG	2316	-725	8553	0
SEP	854	-3333	3815	-13
OCT	75	-10171	444	-563
NOV	5	-17370	34	-2371
DEC	0	-25574	0	-4555
ANN	8429	-146149	29879	-22417

Average Annual Solar Radiation – Nearest Available Site

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

City: LEXINGTON
 State: KY
 WBAN No: 93820
 Lat(N): 38.03
 Long(W): 84.6
 Elev(ft): 988

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.478
 Vert Gap: 0.31

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	640	870	1190	1550	1810	1960	1890	1730	1410	1090	700	550	1280
	Std Dev	49	66	98	142	132	118	108	93	94	84	70	48	40
	Minimum	550	770	1010	1270	1500	1780	1570	1590	1260	890	560	490	1210
	Maximum	740	1020	1380	1870	2040	2390	2040	1930	1600	1330	830	660	1390
	Diffuse	360	470	610	720	830	890	880	770	640	460	370	320	610
Clear Day	Global	980	1320	1790	2250	2520	2620	2540	2280	1880	1410	1020	860	1790
NORTH	Global	210	280	360	440	550	620	590	490	390	300	220	190	390
	Diffuse	210	280	360	440	500	540	530	470	390	300	220	190	370
Clear Day	Global	190	250	330	430	570	680	620	480	370	280	210	180	380
EAST	Global	420	540	710	890	1010	1070	1060	990	830	680	440	350	750
	Diffuse	260	330	430	530	600	640	630	580	480	370	270	220	440
Clear Day	Global	720	920	1150	1340	1420	1440	1410	1320	1150	940	720	630	1100
SOUTH	Global	900	980	990	920	800	750	770	910	1040	1160	920	810	910
	Diffuse	350	420	490	540	560	580	580	570	530	450	360	320	480
Clear Day	Global	1940	1950	1760	1360	1020	870	930	1180	1550	1810	1850	1850	1500
WEST	Global	420	550	710	890	990	1070	1040	990	840	680	450	360	750
	Diffuse	260	340	440	530	610	650	640	580	490	370	270	220	450
Clear Day	Global	720	920	1150	1340	1420	1440	1410	1320	1150	940	720	630	1100

Average Annual Solar Heat and Illumination – Nearest Available Site

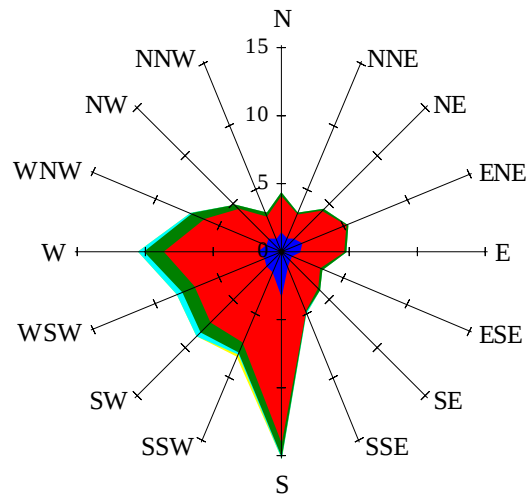
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	420	600	840	1110	1310	1420	1370	1250	1010	760	470	360	910
NORTH	Unshaded	150	190	250	300	360	410	390	330	270	210	160	130	260
	Shaded	130	170	220	270	330	360	350	300	240	190	140	110	230
EAST	Unshaded	290	380	500	630	720	760	750	710	590	480	310	240	530
	Shaded	260	340	440	550	630	660	650	620	520	430	280	220	470
SOUTH	Unshaded	670	710	680	590	500	460	470	570	700	830	680	610	620
	Shaded	650	660	550	410	350	360	360	390	520	740	650	590	520
WEST	Unshaded	290	380	500	630	710	760	740	700	600	480	310	250	530
	Shaded	260	340	450	560	620	660	640	620	530	430	280	220	470

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	28	66	83	73	40	34	75	98	99	76
	M.Cloudy	15	38	49	45	24	22	49	71	72	55
NORTH	M.Clear	8	13	15	14	10	21	16	17	17	17
	M.Cloudy	7	14	17	16	10	13	16	19	19	17
EAST	M.Clear	67	66	23	14	10	66	78	46	17	17
	M.Cloudy	18	30	19	16	10	28	43	36	19	17
SOUTH	M.Clear	27	64	81	71	39	10	23	42	43	26
	M.Cloudy	10	29	38	36	18	9	20	33	34	22
WEST	M.Clear	8	13	15	57	74	10	16	17	39	73
	M.Cloudy	7	14	17	31	27	9	16	19	32	47
M.Clear	(% hrs)	29	26	25	23	24	39	39	31	29	31
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	16	58	82	83	58	7	37	49	38	9
	M.Cloudy	9	34	54	56	38	4	20	27	22	6
NORTH	M.Clear	6	13	16	16	14	3	9	11	9	4
	M.Cloudy	4	13	18	18	14	2	9	11	9	3
EAST	M.Clear	44	75	43	16	14	26	46	12	9	4
	M.Cloudy	13	32	29	18	14	5	17	11	9	3
SOUTH	M.Clear	10	46	70	71	47	20	72	89	74	24
	M.Cloudy	5	23	40	42	27	4	22	29	24	6
WEST	M.Clear	6	13	16	40	72	3	9	11	45	30
	M.Cloudy	4	13	18	29	36	2	9	11	17	7
M.Clear	(% hrs)	43	43	38	33	37	25	24	24	23	24

Wind Summary - December, January, and February

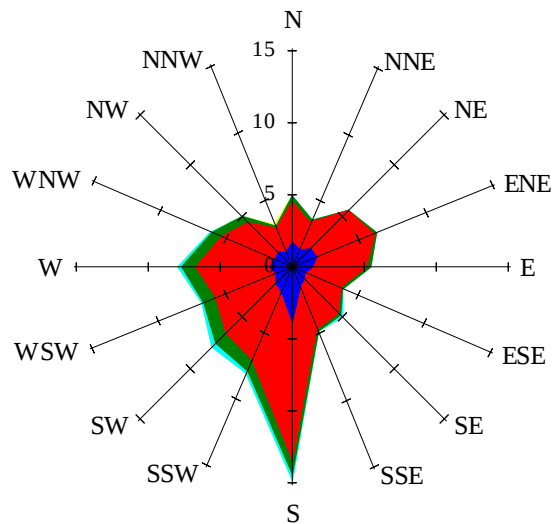
Labels of Percent Frequency on North Axis



Percent Calm = 2.00

Wind Summary - March, April, and May

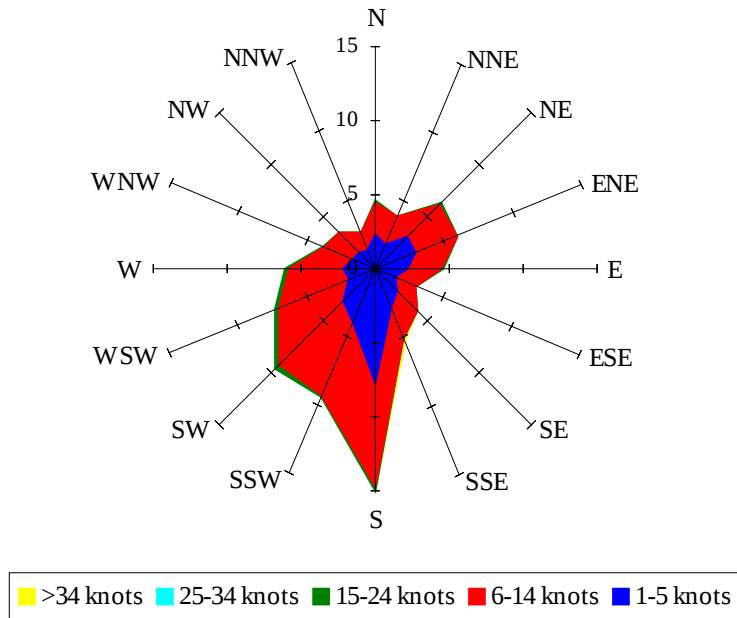
Labels of Percent Frequency on North Axis



Percent Calm = 2.42

Wind Summary - June, July, and August

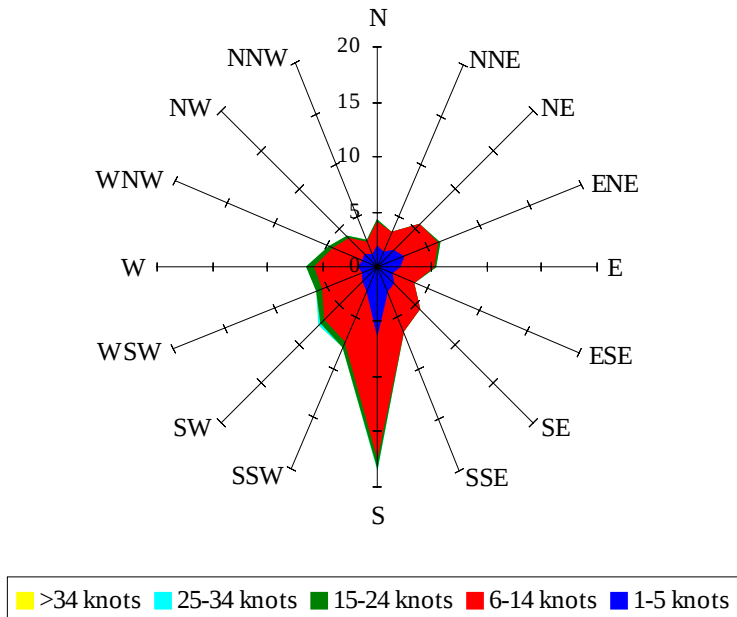
Labels of Percent Frequency on North Axis



Percent Calm = 5.46

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 3.92