

SALINA KS	
Latitude = 38.80 N	WMO No. 724586
Longitude = 97.65 W	Elevation = 1273 feet
Period of Record = 1973 to 1996	Average Pressure = 28.61 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	105	74	83	14.9	S
0.4% Occurrence	101	74	91	15.2	S
1.0% Occurrence	98	74	93	15.0	S
2.0% Occurrence	95	74	96	14.5	S
Mean Daily Range	22	-	-	-	-
97.5% Occurrence	12	11	7	11.2	N
99.0% Occurrence	5	4	5	11.0	N
99.6% Occurrence	-2	-3	3	9.3	N
Median of Extreme Lows	-7	-7	3	8.7	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	96	139	14.3	S
0.4% Occurrence	78	93	125	14.0	S
1.0% Occurrence	77	92	121	13.8	S
2.0% Occurrence	75	89	113	13.7	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	152	89	0.97	9.9	S
0.4% Occurrence	133	86	0.85	12.0	S
1.0% Occurrence	125	84	0.79	12.6	S
2.0% Occurrence	120	82	0.77	12.2	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		253	1220	558	1775

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	3.8	90	2.1 + 1.5
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 (#)
57.6	N/A	N/A	69

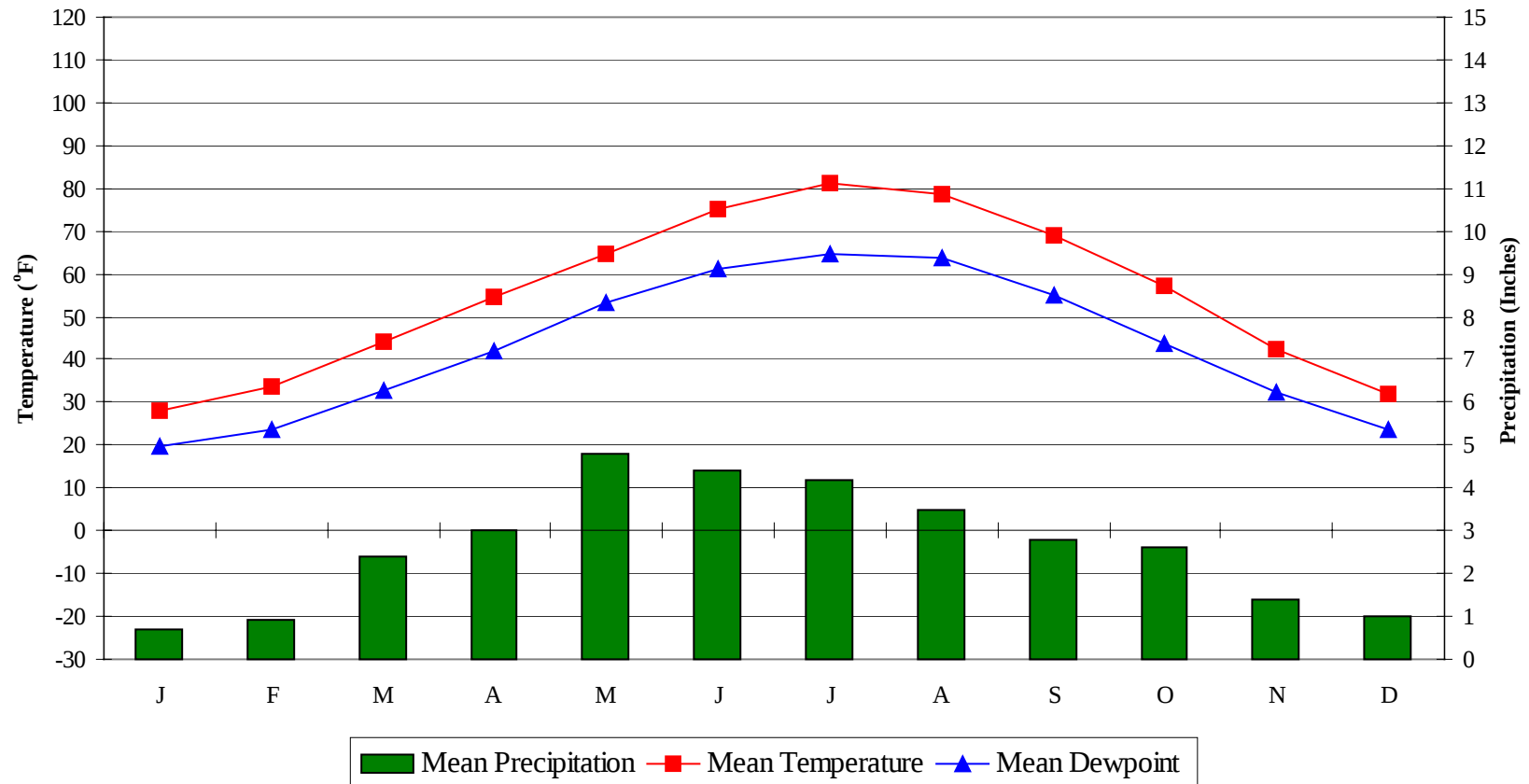
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

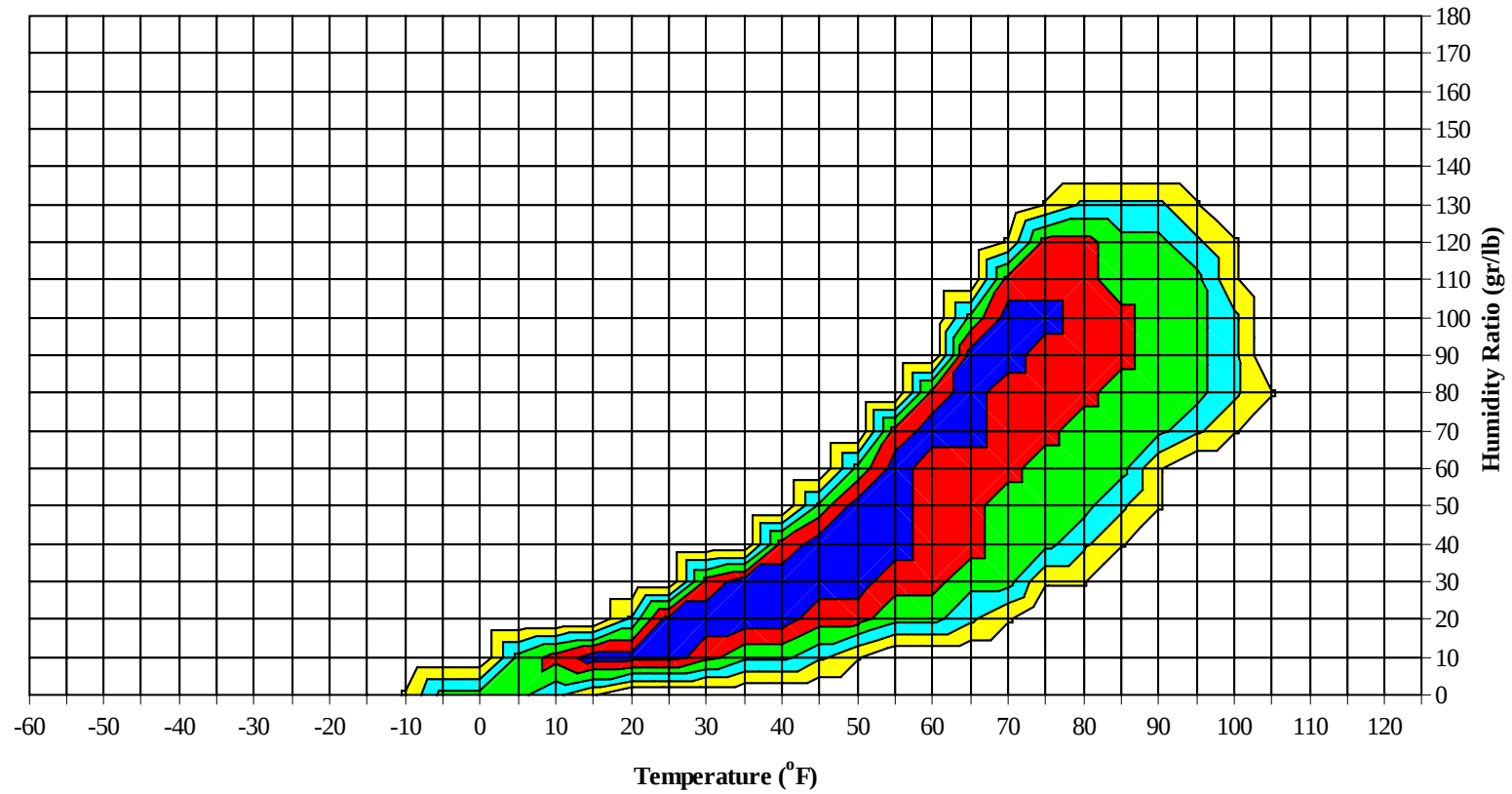


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Long Term Psychrometric Summary



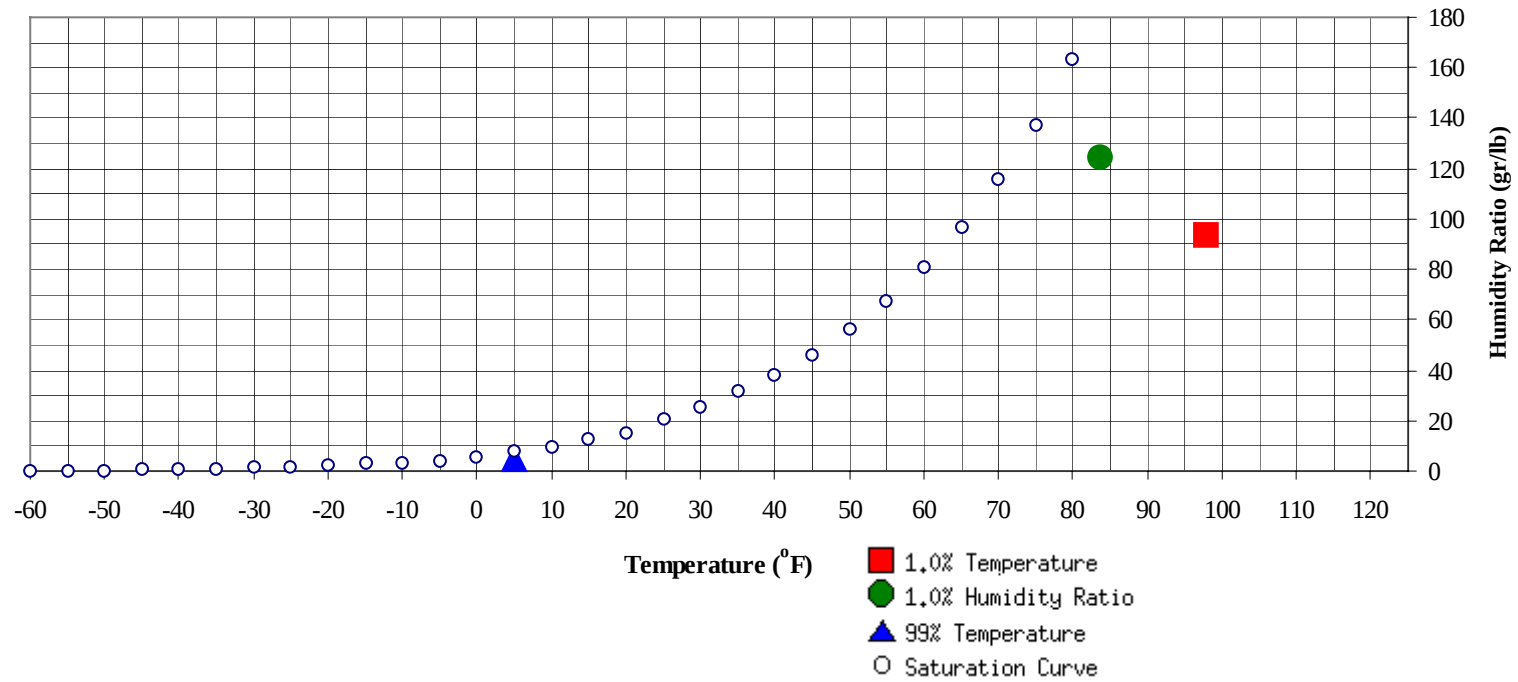
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	5	4.9	1.9		124.6	83.6	75.2	72	39.6

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	98	93.9	74.3	38.3

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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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89												0	0	0	63.1
80 / 84							0	0	0	58.8		2	1	3	60.1
75 / 79		0		0	52.0		1	0	1	55.1		6	3	9	57.8
70 / 74		0	0	0	51.2	0	3	2	5	52.9	0	10	5	15	56.5
65 / 69		1	0	1	49.2	0	7	3	10	50.6	1	17	12	30	54.0
60 / 64		3	1	4	48.3	0	11	6	17	48.8	6	23	18	47	52.2
55 / 59	0	9	3	12	45.4	2	13	9	24	46.2	12	29	25	66	48.8
50 / 54	1	13	7	21	43.3	3	16	14	33	43.7	18	30	30	78	45.5
45 / 49	4	21	13	38	40.3	8	21	22	51	41.0	29	36	38	104	42.3
40 / 44	10	30	24	64	37.3	19	28	27	74	37.6	38	33	39	111	38.5
35 / 39	24	31	36	91	33.6	35	32	34	101	34.0	46	27	34	108	34.3
30 / 34	48	38	44	130	30.0	46	28	36	111	30.2	45	17	21	84	30.1
25 / 29	47	29	39	115	25.4	36	19	21	76	25.2	27	10	12	49	25.2
20 / 24	34	20	25	79	20.6	28	18	19	65	20.5	13	4	5	22	20.4
15 / 19	25	20	18	63	15.5	17	11	11	39	15.7	5	2	3	10	15.6
10 / 14	21	15	16	52	10.6	10	6	8	24	10.7	3	1	1	5	10.8
5 / 9	17	9	11	37	6.1	7	4	6	17	6.0	2	0	0	2	6.1
0 / 4	10	4	7	21	1.3	6	3	4	13	1.3	1	0	0	1	1.3
-5 / -1	4	1	3	8	-3.2	5	1	1	7	-2.9	0		0	0	-2.3
-10 / -6	4	1	2	7	-7.1	3	0	0	3	-6.7					
-15 / -11	1	0	0	1	-11.4	1	0	0	1	-12.0					
-20 / -16	0			0	-16.0	0			0	-16.1					
-25 / -21															

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		
110 / 114												0	0	0	71.9
105 / 109												1	0	1	72.7
100 / 104		0	0	0	69.0							4	2	6	73.5
95 / 99		0	0	0	64.8		0	0	0	71.8		15	8	23	73.5
90 / 94		1	1	2	66.3	0	3	1	4	71.9	0	27	15	42	72.7
85 / 89		4	1	5	65.4	0	11	5	16	70.0	1	43	30	74	71.0
80 / 84		8	4	12	64.7	0	28	14	42	67.8	8	52	40	100	69.2
75 / 79	0	17	10	27	62.1	4	43	28	75	65.6	32	42	46	120	67.6
70 / 74	2	26	18	46	59.6	11	49	40	100	62.7	52	29	44	125	65.8
65 / 69	10	32	26	68	57.1	36	47	51	134	60.3	66	17	31	114	63.0
60 / 64	18	38	35	91	53.7	53	32	47	132	57.2	44	9	18	71	59.0
55 / 59	28	36	36	100	50.3	56	20	34	110	53.2	26	2	5	33	54.9
50 / 54	43	32	37	112	47.1	45	11	18	74	49.3	9	0	1	10	50.4
45 / 49	44	23	31	98	43.4	27	4	8	39	44.6	2		0	2	46.6
40 / 44	40	14	23	77	39.1	11	0	1	12	40.2	0			0	43.0
35 / 39	32	7	11	50	34.7	4		0	4	36.0					
30 / 34	17	2	4	23	30.7	0			0	31.5					
25 / 29	5	1	1	7	25.6	0			0	28.0					
20 / 24	1	0	0	1	20.9										
15 / 19	0		0	0	16.5										
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		
110 / 114		0	0	0	73.4										
105 / 109		5	2	7	74.9		1	1	2	73.5		0		0	72.5
100 / 104		16	7	23	74.7		9	4	13	74.1		1	0	1	75.5
95 / 99		33	19	52	74.1		26	13	39	74.0		8	3	11	73.4
90 / 94	0	51	32	83	73.6	0	39	24	63	73.3		17	8	25	71.5
85 / 89	4	54	44	102	72.0	2	49	37	88	72.1	0	29	16	45	69.6
80 / 84	29	44	54	127	70.6	22	47	50	119	70.6	3	37	28	68	68.1
75 / 79	67	27	45	139	69.3	51	39	50	141	68.9	21	37	36	94	66.4
70 / 74	76	14	30	120	67.2	73	23	41	137	67.0	36	34	39	109	63.9
65 / 69	49	5	11	65	63.9	60	10	20	91	63.3	42	28	37	107	60.7
60 / 64	19	1	3	23	59.6	28	4	7	39	59.1	43	24	32	99	56.7
55 / 59	3		0	3	54.6	10	0	1	11	54.6	42	13	22	77	52.8
50 / 54	1			1	49.2	1			1	49.1	25	6	11	42	48.4
45 / 49											18	3	6	27	44.2
40 / 44											8	1	2	11	40.1
35 / 39											3	0	0	3	36.5
30 / 34											1			1	31.5
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		
110 / 114															
105 / 109															
100 / 104															
95 / 99		0		0	62.5										
90 / 94		2	0	2	64.1										
85 / 89		6	2	8	63.9		0		0	59.3					
80 / 84		13	5	18	63.1		1	0	1	61.3					
75 / 79		22	11	33	61.3		2	1	3	58.3					
70 / 74	4	35	21	60	59.5	0	6	1	7	57.2		0		0	53.2
65 / 69	13	38	34	85	57.4	1	12	6	19	55.8		2	1	3	54.0
60 / 64	29	36	39	104	54.6	5	22	11	38	53.5	1	5	1	7	51.6
55 / 59	37	36	40	113	50.8	10	28	21	59	49.9	1	11	4	16	47.8
50 / 54	47	28	39	114	47.2	17	31	28	76	45.9	2	18	9	29	44.1
45 / 49	45	17	28	90	43.0	26	32	36	94	42.2	6	27	16	49	40.9
40 / 44	35	10	18	63	39.0	35	33	39	107	38.3	13	35	29	76	37.5
35 / 39	25	3	8	36	34.7	44	32	38	114	34.2	33	45	49	126	33.9
30 / 34	10	1	2	13	30.4	47	20	31	98	30.0	59	39	56	153	30.0
25 / 29	3	0	1	4	25.7	29	9	15	53	25.2	56	29	36	121	25.4
20 / 24	1	0	0	1	20.5	13	6	8	27	20.5	31	13	18	62	20.6
15 / 19	0	0		0	15.2	8	3	4	15	15.8	19	10	12	41	15.6
10 / 14		0		0		4	1	1	6	11.1	12	6	8	26	10.6
5 / 9						1	0	1	2	6.5	7	2	4	13	6.1
0 / 4						1	0	0	1	1.4	3	2	3	8	1.2
-5 / -1						0		0	0	-2.9	2	2	2	6	-3.3
-10 / -6											2	1	2	5	-6.8
-15 / -11											1	0	0	1	-11.8
-20 / -16											1	0	0	1	-16.6
-25 / -21											0	0		0	-21.5

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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		
110 / 114		0	0	0	72.6
105 / 109		7	3	10	74.3
100 / 104		30	14	44	74.4
95 / 99		83	44	127	73.9
90 / 94	0	139	80	219	72.9
85 / 89	7	195	136	338	71.1
80 / 84	61	231	195	487	69.2
75 / 79	174	235	229	638	67.1
70 / 74	250	228	242	720	64.2
65 / 69	277	217	230	724	60.3
60 / 64	244	207	218	669	55.7
55 / 59	226	199	201	626	51.1
50 / 54	212	185	194	591	46.7
45 / 49	209	185	199	593	42.5
40 / 44	209	184	202	595	38.3
35 / 39	246	178	211	635	34.1
30 / 34	276	145	196	617	30.1
25 / 29	204	98	125	427	25.3
20 / 24	122	62	75	259	20.6
15 / 19	75	47	48	170	15.6
10 / 14	50	30	35	115	10.7
5 / 9	34	17	22	73	6.1
0 / 4	22	8	14	44	1.3
-5 / -1	12	4	6	22	-3.1
-10 / -6	8	2	4	14	-6.9
-15 / -11	3	0	1	4	-11.7
-20 / -16	1	0	0	1	-16.4
-25 / -21	0	0		0	-21.5

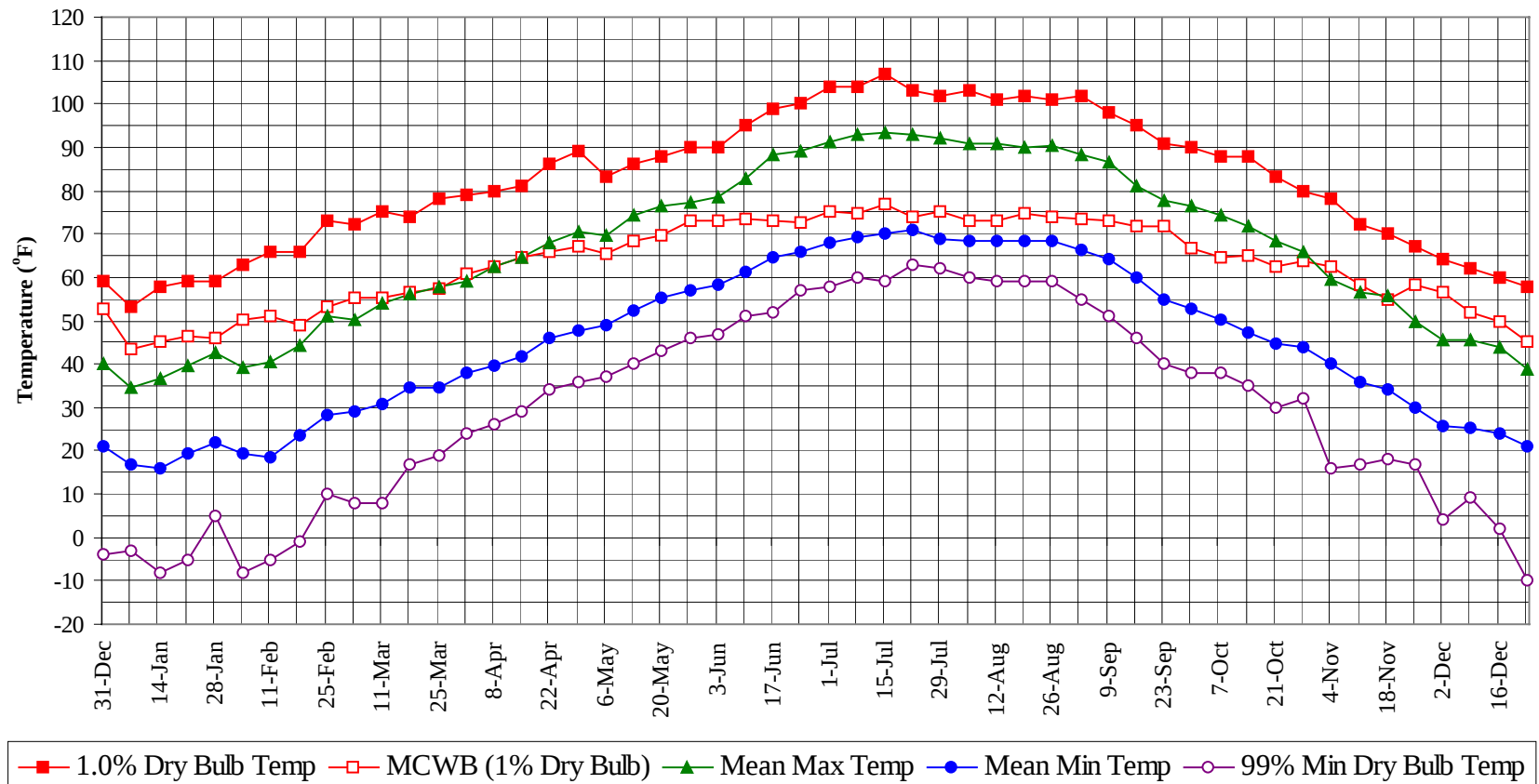
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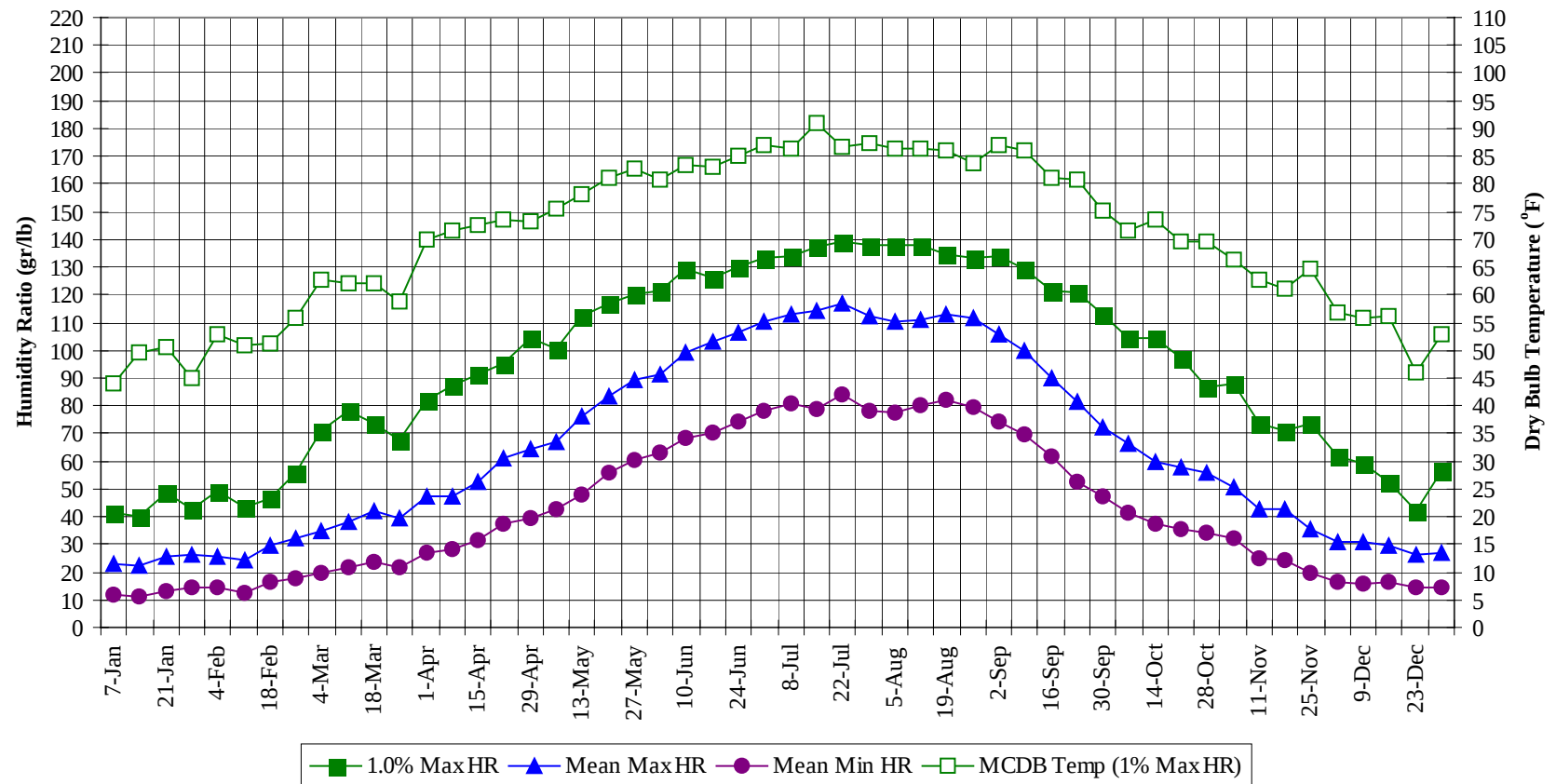
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Annual Summary of Temperatures

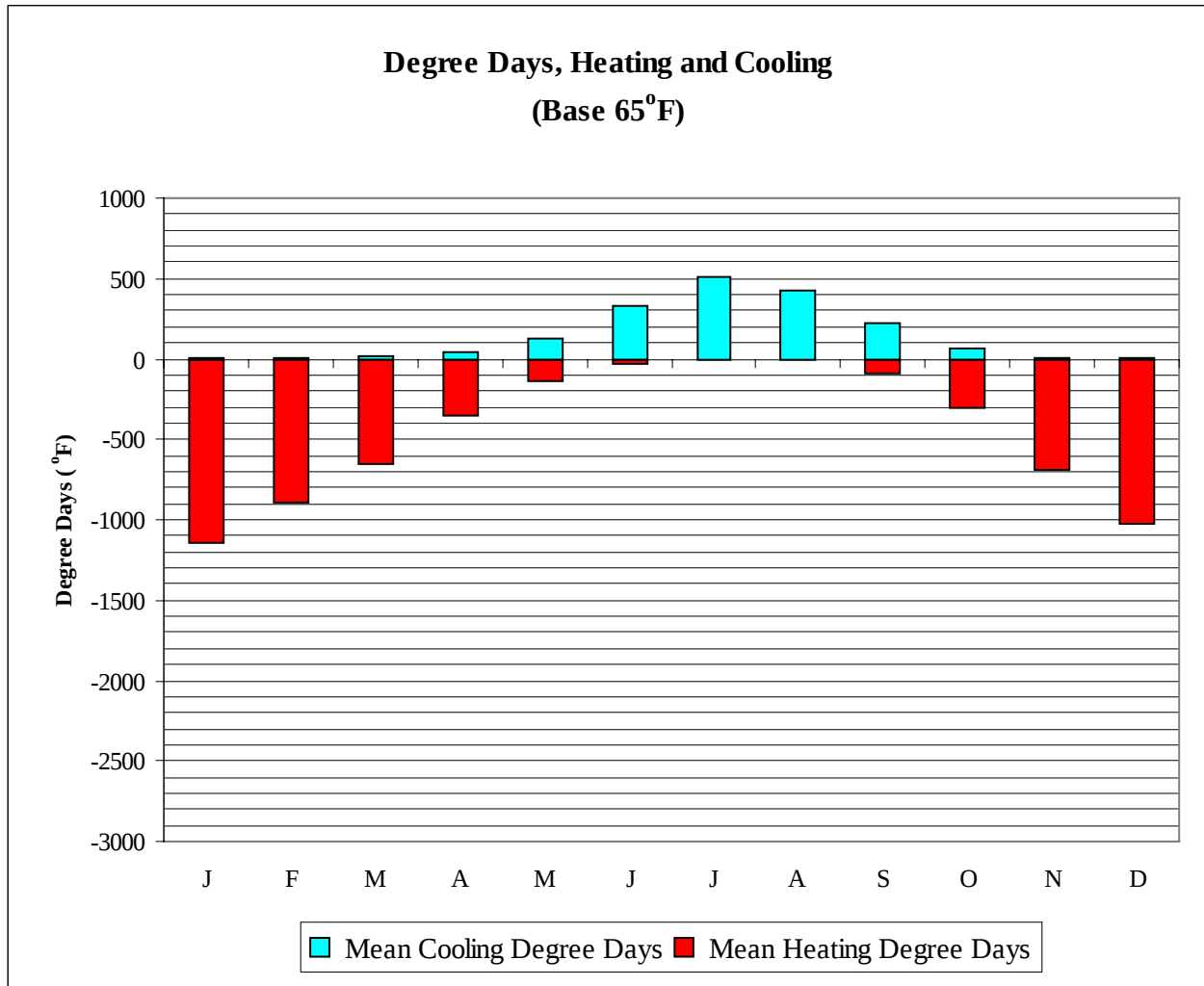


Long Term Humidity and Dry Bulb Temperature Summary



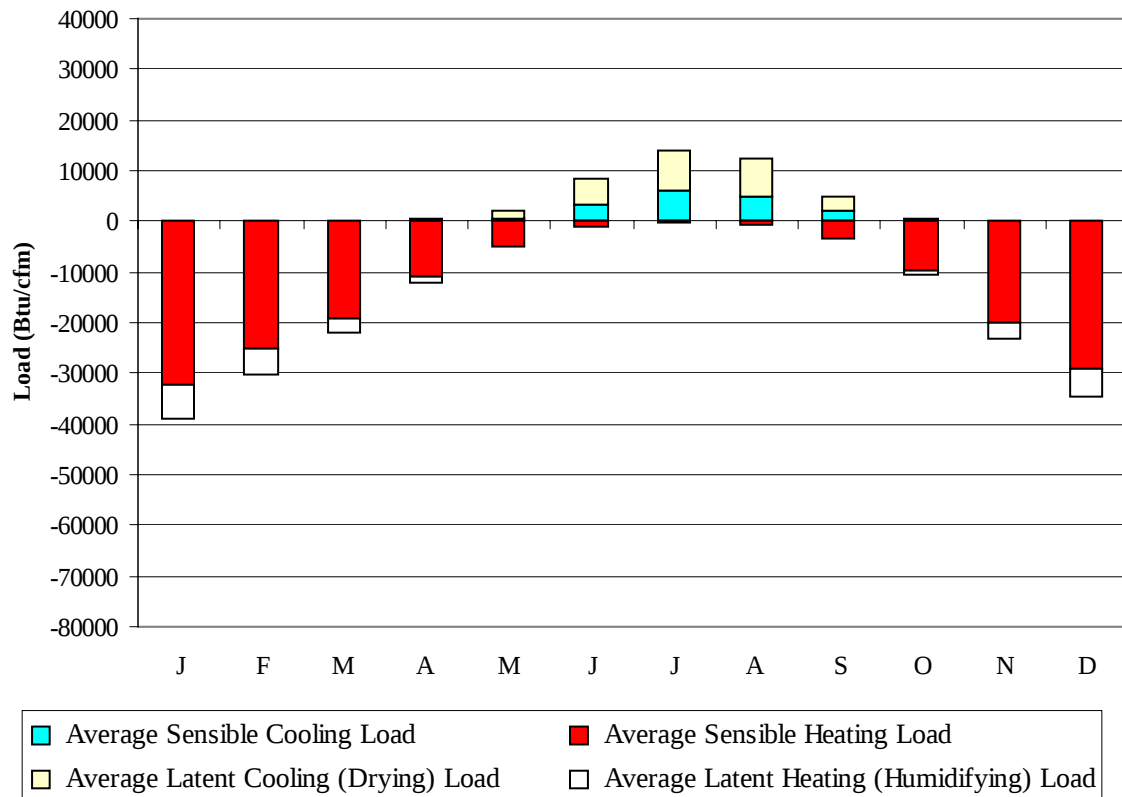
SALINA**KS****WMO No. 724586****Long Term Dry Bulb Temperature and Humidity Summary**

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	43.5	34.4	16.8	-3.0	41.3	44.0	22.9	11.9
14-Jan	58.0	45.1	36.6	16.0	-8.0	39.9	49.4	22.5	11.0
21-Jan	59.0	46.4	39.5	19.3	-5.0	48.3	50.6	25.8	13.2
28-Jan	59.0	45.9	42.7	22.0	5.0	42.7	44.9	26.3	14.1
4-Feb	63.0	50.1	39.3	19.5	-8.0	49.0	52.8	25.3	14.2
11-Feb	66.0	51.2	40.6	18.6	-5.0	43.4	50.9	24.0	12.8
18-Feb	66.0	49.0	44.3	23.8	-1.0	46.9	51.2	29.7	16.1
25-Feb	73.0	53.0	51.0	28.4	10.0	56.0	55.8	32.0	17.9
4-Mar	72.0	55.3	50.2	28.9	8.0	70.7	62.8	34.8	19.4
11-Mar	75.0	55.3	53.9	31.0	8.0	78.4	62.0	37.9	21.7
18-Mar	74.0	56.5	56.1	34.6	17.0	73.5	62.2	42.3	23.8
25-Mar	78.0	57.4	57.8	34.7	19.0	67.9	58.9	39.6	22.0
1-Apr	79.0	60.7	59.2	38.1	24.0	81.9	69.9	47.1	27.2
8-Apr	80.0	62.5	62.5	39.5	26.0	87.5	71.7	47.3	27.9
15-Apr	81.0	64.6	64.5	41.8	29.0	91.0	72.5	52.8	31.7
22-Apr	86.0	65.8	68.1	45.9	34.0	95.2	73.6	61.3	37.3
29-Apr	89.0	67.3	70.4	47.8	36.0	104.3	73.3	64.3	39.1
6-May	83.0	65.5	69.6	48.9	37.0	100.8	75.6	67.2	42.9
13-May	86.0	68.5	74.5	52.4	40.0	112.0	78.1	76.4	48.2
20-May	88.0	69.8	76.4	55.1	43.0	116.9	81.2	83.4	55.7
27-May	90.0	73.0	77.1	57.0	46.0	120.4	82.8	89.2	60.5
3-Jun	90.0	73.2	78.4	58.4	47.0	121.8	80.9	91.0	63.4
10-Jun	95.0	73.7	82.6	61.1	51.0	129.5	83.6	99.2	68.2
17-Jun	99.0	73.0	88.1	64.5	52.0	126.0	83.1	103.4	70.3
24-Jun	100.0	72.8	89.0	66.0	57.0	130.2	85.1	106.6	74.3
1-Jul	104.0	75.0	91.1	67.8	58.0	133.0	87.0	110.6	78.0
8-Jul	104.0	74.9	93.1	69.4	60.0	133.7	86.2	113.1	81.0
15-Jul	107.0	76.9	93.2	70.1	59.0	137.2	90.9	114.3	78.9
22-Jul	103.0	73.9	93.0	71.1	63.0	139.3	86.6	116.7	83.9
29-Jul	102.0	75.2	92.2	68.7	62.0	137.9	87.3	112.5	78.4
5-Aug	103.0	72.9	90.9	68.6	60.0	137.9	86.4	110.1	77.5
12-Aug	101.0	73.2	90.6	68.4	59.0	137.9	86.3	110.9	80.0
19-Aug	102.0	74.8	89.8	68.6	59.0	134.4	86.1	113.3	82.2
26-Aug	101.0	73.8	90.4	68.2	59.0	133.0	83.6	111.9	79.6
2-Sep	102.0	73.5	88.4	66.2	55.0	133.7	87.1	105.8	74.3
9-Sep	98.0	72.9	86.6	64.2	51.0	129.5	86.0	99.8	69.9
16-Sep	95.0	71.9	81.0	60.0	46.0	121.8	81.0	89.9	61.5
23-Sep	91.0	71.9	77.8	54.8	40.0	121.1	80.8	81.3	52.5
30-Sep	90.0	66.7	76.6	52.7	38.0	112.7	75.1	72.4	47.1
7-Oct	88.0	64.8	74.2	50.2	38.0	104.3	71.6	66.1	41.7
14-Oct	88.0	64.9	71.6	47.3	35.0	104.3	73.4	59.7	37.6
21-Oct	83.0	62.3	68.5	44.5	30.0	97.3	69.6	57.6	35.2
28-Oct	80.0	63.6	65.9	43.8	32.0	86.8	69.5	56.1	34.3
4-Nov	78.0	62.4	59.6	40.3	16.0	88.2	66.3	50.8	32.2
11-Nov	72.0	58.1	56.4	35.9	17.0	73.5	62.7	42.6	24.8
18-Nov	70.0	54.8	55.6	34.2	18.0	70.7	61.1	42.7	24.3
25-Nov	67.0	58.1	49.9	30.0	17.0	73.5	64.7	35.5	19.9
2-Dec	64.0	56.7	45.5	25.5	4.0	61.6	56.9	30.6	16.6
9-Dec	62.0	51.8	45.7	25.4	9.0	58.8	55.9	30.9	16.1
16-Dec	60.0	50.0	43.9	24.2	2.0	52.5	56.0	29.8	16.1
23-Dec	58.0	45.3	38.9	20.9	-10.0	42.0	45.8	26.0	14.1
31-Dec	59.0	52.6	40.0	21.0	-4.0	56.7	53.0	26.9	14.4



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1146
FEB	3	893
MAR	13	653
APR	46	354
MAY	124	137
JUN	334	25
JUL	506	3
AUG	430	8
SEP	220	93
OCT	60	305
NOV	5	688
DEC	0	1027
ANN	1742	5332

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	-32104	0	-6964
FEB	3	-25308	0	-5126
MAR	42	-19198	7	-2951
APR	232	-11076	168	-900
MAY	721	-4943	1448	-71
JUN	3448	-1130	4813	0
JUL	6213	-224	7845	0
AUG	4832	-464	7365	0
SEP	1989	-3389	2738	-70
OCT	314	-9773	216	-820
NOV	11	-20110	12	-3031
DEC	0	-29019	1	-5664
ANN	17805	-156738	24613	-25597

Average Annual Solar Radiation – Nearest Available Site

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

City: WICHITA
 State: KS
 WBAN No: 3928
 Lat(N): 37.65
 Long(W): 97.42
 Elev(ft): 1339

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.467
 Vert Gap: 0.307

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	780	1030	1350	1710	1920	2120	2170	1920	1540	1200	830	680	1440
	Std Dev	69	82	127	107	131	126	118	126	127	122	75	56	33
	Minimum	640	880	1020	1450	1710	1900	1940	1640	1200	990	700	580	1370
	Maximum	950	1200	1560	1970	2200	2400	2430	2150	1820	1380	990	830	1520
	Diffuse	320	430	560	680	780	780	730	650	570	430	340	290	550
Clear Day	Global	1020	1360	1830	2280	2560	2660	2590	2330	1940	1470	1070	910	1840
NORTH	Global	220	280	360	450	560	640	610	480	390	300	230	190	390
	Diffuse	220	280	360	440	500	520	510	450	380	300	230	190	370
Clear Day	Global	200	260	330	430	580	690	630	470	360	280	210	180	390
EAST	Global	530	660	820	980	1040	1120	1170	1080	900	750	550	460	840
	Diffuse	270	350	440	530	590	620	610	550	470	370	280	230	440
Clear Day	Global	750	950	1180	1360	1450	1470	1450	1360	1210	990	780	680	1140
SOUTH	Global	1270	1260	1170	1010	830	760	820	980	1150	1320	1220	1180	1080
	Diffuse	370	440	500	540	550	550	550	540	510	450	380	340	480
Clear Day	Global	2000	2000	1780	1350	1000	850	900	1170	1570	1880	1950	1940	1530
WEST	Global	540	680	830	1010	1100	1190	1230	1120	950	790	560	480	870
	Diffuse	270	350	450	540	600	630	630	560	480	380	280	240	450
Clear Day	Global	750	950	1180	1360	1450	1470	1450	1360	1210	990	780	680	1140

Average Annual Solar Heat and Illumination – Nearest Available Site

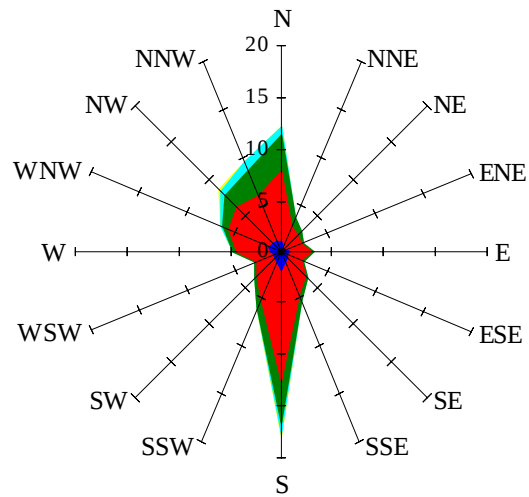
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	510	710	960	1230	1390	1550	1590	1400	1100	840	550	440	1030
NORTH	Unshaded	150	200	250	310	360	410	390	320	270	210	160	130	260
	Shaded	140	180	230	280	330	370	360	290	240	190	140	120	240
EAST	Unshaded	370	460	580	700	740	800	830	770	640	530	380	320	590
	Shaded	340	420	520	620	650	700	730	680	570	480	350	290	530
SOUTH	Unshaded	960	920	810	650	500	450	480	600	770	940	910	890	740
	Shaded	940	860	650	440	350	350	350	380	570	840	890	880	620
WEST	Unshaded	370	480	590	720	790	850	880	800	680	560	390	330	620
	Shaded	340	430	530	640	690	750	770	710	600	500	360	300	550

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	32	70	85	73	38	38	78	102	101	77
	M.Cloudy	19	43	55	46	24	25	55	74	76	58
NORTH	M.Clear	8	13	15	14	9	22	15	17	17	16
	M.Cloudy	8	15	18	16	9	14	17	19	19	17
EAST	M.Clear	74	67	19	14	9	73	78	42	17	16
	M.Cloudy	24	34	19	16	9	33	49	34	19	17
SOUTH	M.Clear	31	68	82	71	38	10	24	42	42	24
	M.Cloudy	13	34	45	37	18	10	21	34	35	22
WEST	M.Clear	8	13	15	61	77	10	15	17	42	77
	M.Cloudy	8	15	18	34	31	10	17	19	35	53
M.Clear	(% hrs)	38	37	37	36	36	40	42	41	40	44
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	20	62	87	85	58	10	41	53	39	8
	M.Cloudy	12	37	55	58	39	6	25	33	24	5
NORTH	M.Clear	7	13	16	16	13	4	9	11	9	3
	M.Cloudy	5	14	17	18	14	3	10	12	9	3
EAST	M.Clear	56	77	40	16	13	37	48	11	9	3
	M.Cloudy	17	34	28	18	14	9	21	12	9	3
SOUTH	M.Clear	13	50	73	71	46	29	79	94	77	23
	M.Cloudy	7	25	41	44	28	8	30	41	30	7
WEST	M.Clear	7	13	16	44	76	4	9	13	50	30
	M.Cloudy	5	14	17	31	41	3	10	13	22	9
M.Clear	(% hrs)	46	49	46	47	48	40	40	38	40	44

Wind Summary - December, January, and February

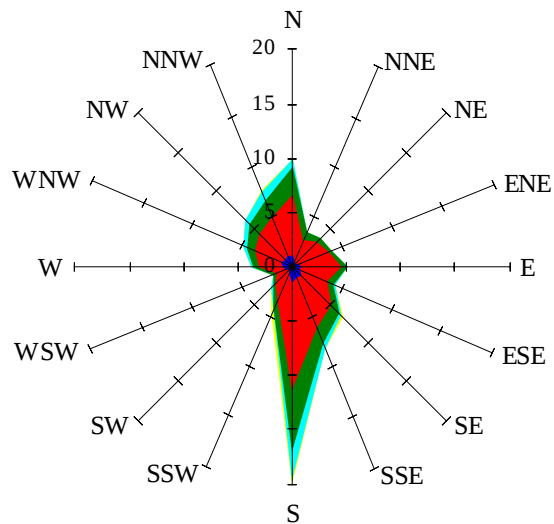
Labels of Percent Frequency on North Axis



Percent Calm = 5.92

Wind Summary - March, April, and May

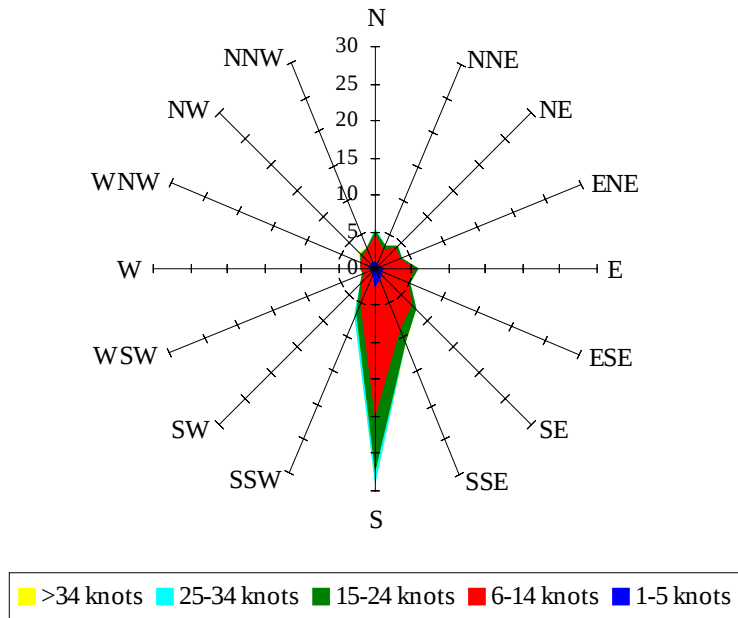
Labels of Percent Frequency on North Axis



Percent Calm = 5.21

Wind Summary - June, July, and August

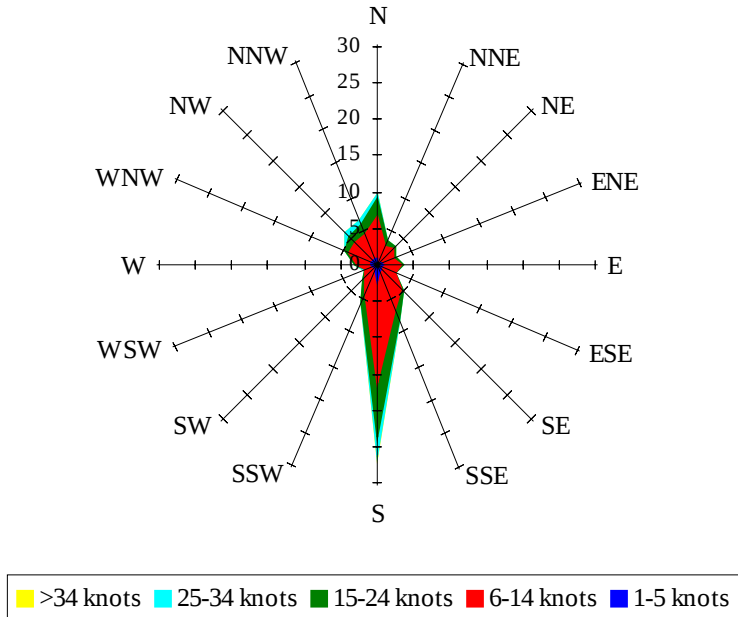
Labels of Percent Frequency on North Axis



Percent Calm = 5.12

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 4.48