

SCOTTSBLUFF NE

Latitude = 41.87 N

WMO No. 725660

Longitude = 103.60 W

Elevation = 3957 feet

Period of Record = 1973 to 1996

Average Pressure = 25.92 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	102	66	53	11.2	SSE
0.4% Occurrence	96	65	57	10.9	WNW
1.0% Occurrence	93	65	60	10.2	WNW
2.0% Occurrence	90	64	63	10.4	WNW
Mean Daily Range	27	-	-	-	-
97.5% Occurrence	5	4	6	8.4	WNW
99.0% Occurrence	-4	-5	4	7.6	WNW
99.6% Occurrence	-11	-11	2	6.9	NW
Median of Extreme Lows	-19	-19	1	8.2	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	73	89	109	9.5	E
0.4% Occurrence	69	87	91	10.4	E
1.0% Occurrence	68	86	87	10.5	E
2.0% Occurrence	66	83	81	10.3	E
	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	117	74	0.67	19.3	SE
0.4% Occurrence	104	76	0.60	9.4	E
1.0% Occurrence	97	73	0.56	9.6	E
2.0% Occurrence	92	73	0.54	9.4	E
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		98	698	2	169

Other Site Data

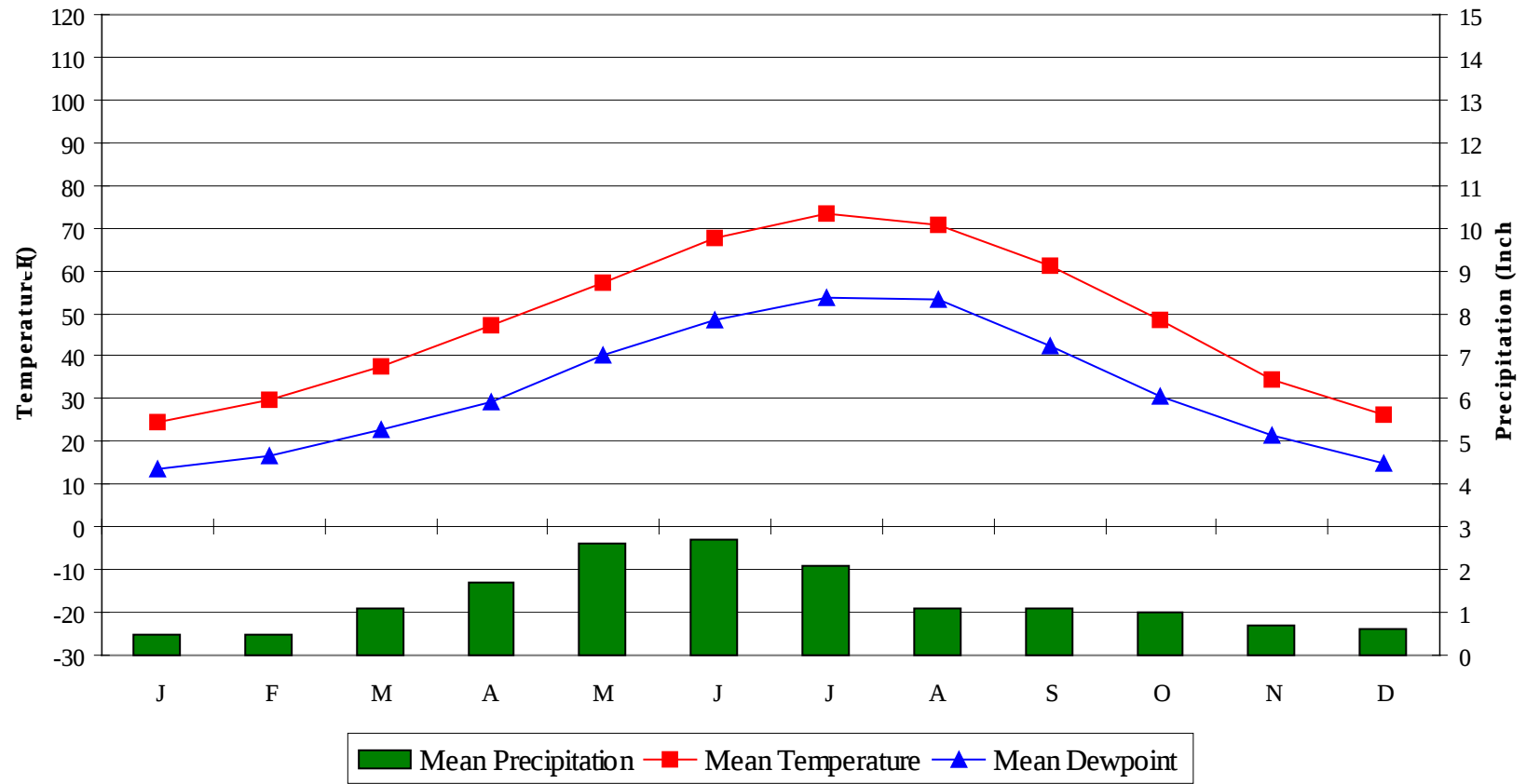
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
5	3.3	90	0.1 + 0.8
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
50.7	N/A	12	118

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

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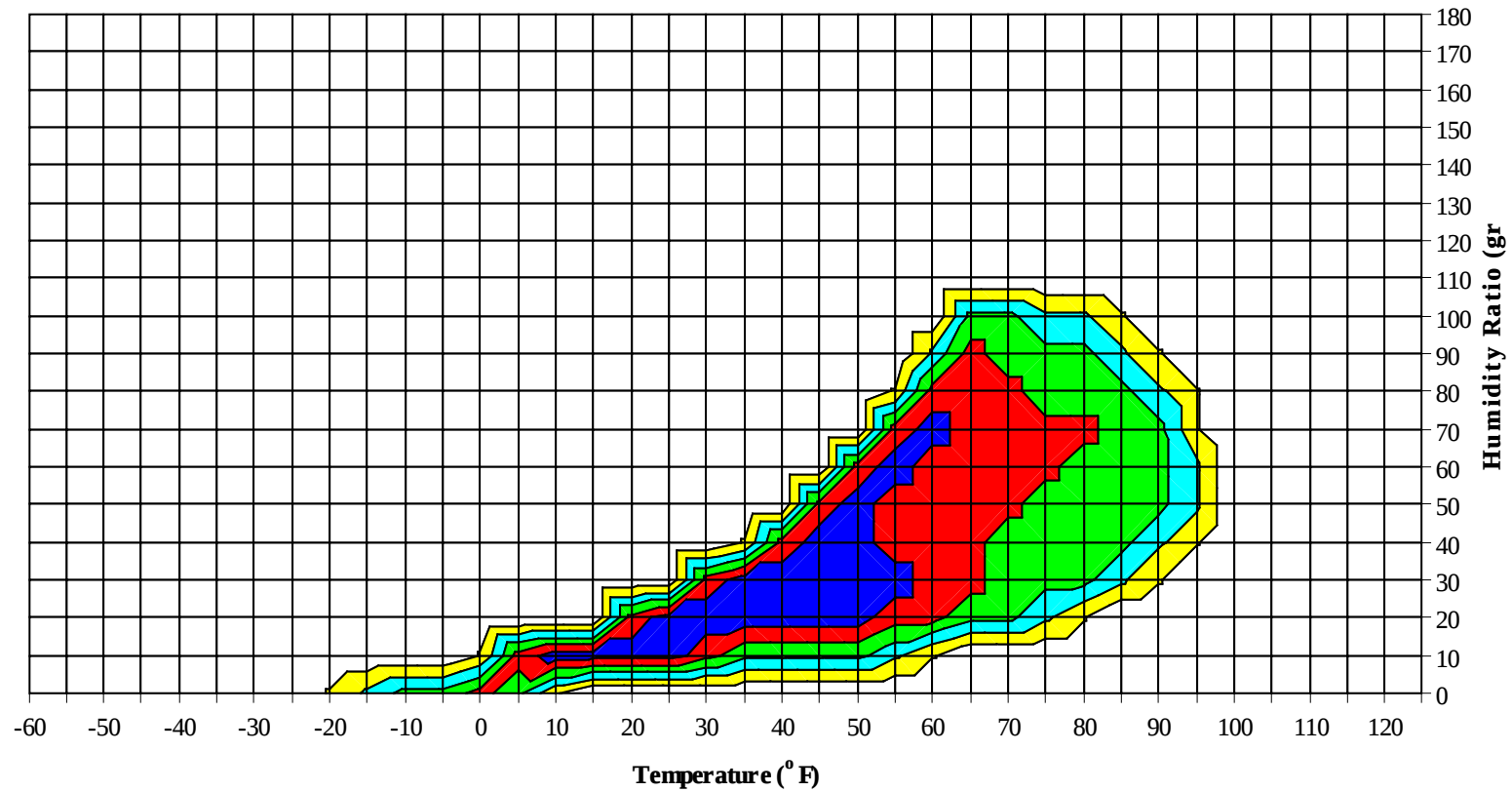
Average Annual Climate



SCOTTSBLUFF NE

WMO No. 725660

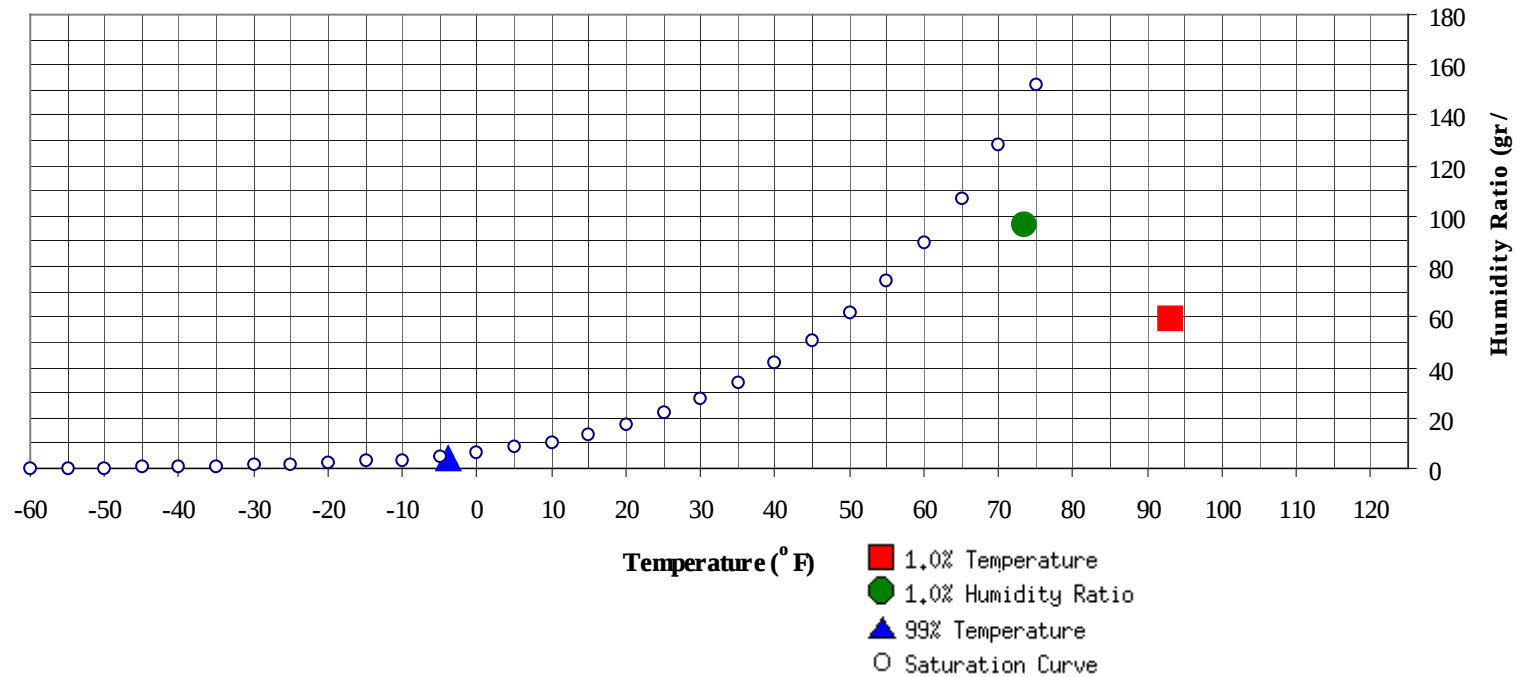
Long Term Psychrometric Summary



- 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)
	-4	3.6	-0.4		96.6	73.5	65.6	62.1	32.7

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	93	59.6	64.7	31.7

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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		
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84												0		0	51.7
75 / 79												2	0	2	50.6
70 / 74		0		0	47.8		1		1	48.0		6	1	6	48.7
65 / 69		1	0	1	44.8		3	0	3	46.6		13	3	16	46.6
60 / 64		3	0	3	43.0		9	1	10	43.8	0	21	6	27	44.5
55 / 59	0	6	0	6	41.4	0	20	3	23	41.8	1	25	11	37	42.5
50 / 54	1	15	2	18	39.4	0	22	8	30	39.4	3	29	18	50	40.2
45 / 49	1	23	5	30	36.8	2	26	14	42	36.7	7	32	29	68	37.9
40 / 44	7	32	17	56	34.2	7	30	24	62	34.2	19	35	35	89	35.4
35 / 39	14	32	30	76	31.3	21	25	35	82	31.5	45	31	45	122	32.5
30 / 34	28	34	45	107	28.0	37	23	40	101	28.3	63	26	45	134	29.0
25 / 29	40	24	37	101	24.3	45	19	31	94	24.5	50	13	25	88	24.9
20 / 24	43	19	30	93	20.2	36	13	20	68	20.1	26	6	13	45	20.4
15 / 19	30	16	22	68	15.5	23	11	15	49	15.5	17	4	7	29	15.8
10 / 14	23	13	16	52	10.5	15	8	12	35	10.8	9	3	5	17	10.9
5 / 9	22	15	15	52	5.9	10	6	7	23	6.0	4	1	2	7	6.5
0 / 4	14	8	12	34	1.0	9	3	6	19	1.1	3	1	1	4	1.3
-5 / -1	6	3	7	16	-3.3	5	2	3	9	-3.1	1	0	0	2	-3.1
-10 / -6	8	2	5	15	-7.4	5	1	3	9	-7.3	1		0	1	-7.9
-15 / -11	5	1	2	9	-12.0	3	1	2	6	-12.3	0		0	0	-11.4
-20 / -16	3	0	1	5	-16.8	3	1	1	5	-17.0	0			0	-16.7
-25 / -21	2		0	2	-21.3	1	0	0	1	-21.4	0			0	-20.0
-30 / -26	0			0	-25.0	0			0	-27.0					
-35 / -31															
-40 / -36															
-45 / -41															

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		
105 / 109												0		0	64.5
100 / 104												1	0	2	64.9
95 / 99												7	2	8	64.4
90 / 94		0		0	58.3		1	0	2	59.7	0	20	5	25	63.3
85 / 89		2	0	2	54.9		9	2	10	59.0	0	35	12	47	63.2
80 / 84		8	1	9	54.2		20	5	26	58.3	1	39	20	59	61.8
75 / 79		12	4	16	53.1	0	29	10	39	56.9	4	41	28	74	60.4
70 / 74		19	7	26	51.1	1	38	19	58	55.2	15	38	38	90	58.7
65 / 69	0	23	12	35	49.1	6	42	27	76	53.0	32	26	41	99	57.1
60 / 64	2	29	17	49	46.9	18	37	38	93	51.2	57	18	42	118	55.1
55 / 59	8	33	26	67	44.7	35	28	44	107	49.2	62	9	30	102	52.4
50 / 54	19	32	31	83	42.8	58	20	44	121	46.8	39	3	16	58	48.4
45 / 49	31	30	37	97	40.0	59	14	33	106	43.1	22	1	6	29	44.1
40 / 44	42	22	36	101	36.9	38	5	17	61	39.1	7	0	1	8	40.2
35 / 39	52	16	33	101	33.6	23	3	7	32	34.7	1	0		1	36.8
30 / 34	47	9	22	78	29.7	9	0	2	11	30.8					
25 / 29	24	3	9	36	25.2	2		0	2	25.9					
20 / 24	10	0	3	13	20.8	0			0	22.8					
15 / 19	4	0	0	4	16.1	0			0	16.8					
10 / 14	1	0	0	2	11.4										
5 / 9	0	0	0	0	7.0										
0 / 4	0	0	0	0	2.0										
-5 / -1	0		0	0	-3.5										
-10 / -6	0		0	0	-6.3										
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															

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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		
105 / 109		1	0	1	65.0										
100 / 104		5	1	7	65.6		1		1	65.4					
95 / 99		21	4	25	65.6		10	1	11	65.2		3	0	3	63.2
90 / 94		38	12	50	65.4		33	5	38	65.1		12	2	13	62.4
85 / 89	0	47	18	65	65.1		49	14	63	64.9		24	4	28	60.2
80 / 84	1	50	26	78	63.9	0	53	21	75	63.9	0	32	9	41	59.0
75 / 79	10	41	41	92	62.4	3	43	32	79	62.5	0	35	15	51	57.7
70 / 74	30	26	52	108	61.3	16	30	50	97	61.1	3	34	23	60	56.3
65 / 69	66	11	48	125	59.9	47	16	56	119	59.4	11	29	31	71	54.5
60 / 64	81	4	32	117	57.5	84	7	45	136	57.2	29	27	43	98	53.1
55 / 59	45	1	12	58	54.2	67	3	17	87	53.8	46	19	40	105	50.5
50 / 54	14	1	2	17	50.3	24	1	4	28	49.5	52	12	33	96	46.9
45 / 49	2		0	2	45.9	6	1	1	8	45.1	45	6	21	72	43.1
40 / 44	0			0	39.8	1		0	1	41.3	29	4	11	43	38.8
35 / 39											18	2	5	25	34.6
30 / 34											7	0	2	9	30.4
25 / 29											2	0	1	4	25.6
20 / 24											1		0	1	20.9
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															

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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		
105 / 109															
100 / 104															
95 / 99															
90 / 94		0		0	58.0										
85 / 89		4		4	55.9										
80 / 84		10	1	11	54.1										
75 / 79		18	2	20	53.0		2		2	51.9		0		0	54.0
70 / 74	0	26	5	31	51.3		5	0	5	49.5		0		0	48.9
65 / 69	0	31	8	39	49.1	0	9	1	10	47.5		2		2	46.5
60 / 64	2	33	18	53	47.4	0	14	2	17	45.3		8	0	8	44.5
55 / 59	6	32	25	63	45.3	1	20	6	27	42.9	0	11	1	12	41.8
50 / 54	18	32	41	91	43.3	3	27	12	42	40.3	2	16	4	21	39.4
45 / 49	39	25	49	112	40.6	6	31	20	56	37.7	4	20	8	32	36.5
40 / 44	53	17	42	112	37.3	17	30	28	75	35.3	8	30	15	54	34.0
35 / 39	56	11	29	96	33.6	31	31	38	101	32.0	16	36	30	83	31.2
30 / 34	41	6	20	67	29.6	52	30	49	131	28.8	28	34	43	106	27.9
25 / 29	21	1	7	29	25.2	44	18	34	97	24.6	42	28	39	109	24.3
20 / 24	9	0	2	11	20.9	35	8	23	67	20.4	43	21	39	103	20.1
15 / 19	2	1	1	4	16.1	25	7	12	44	15.9	36	13	26	76	15.7
10 / 14	1	0	1	2	11.4	11	4	6	21	11.1	24	9	14	47	10.9
5 / 9	0	0	0	1	7.1	6	2	6	13	6.2	16	7	11	34	6.1
0 / 4	0		0	0	1.4	5	1	2	7	1.4	12	4	6	22	1.2
-5 / -1	0		0	0	-1.8	2	1	1	4	-2.7	4	2	3	9	-3.0
-10 / -6	0			0	-5.5	2		0	2	-7.1	4	3	4	10	-7.7
-15 / -11						0			0	-11.0	3	1	2	7	-12.3
-20 / -16											2	1	2	5	-17.0
-25 / -21											1	0	1	3	-21.6
-30 / -26											0	0	0	1	-26.2
-35 / -31											0	0		0	-30.8
-40 / -36											0	0		0	
-45 / -41											0			0	

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Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**Period of Record = 1973 to 1996**

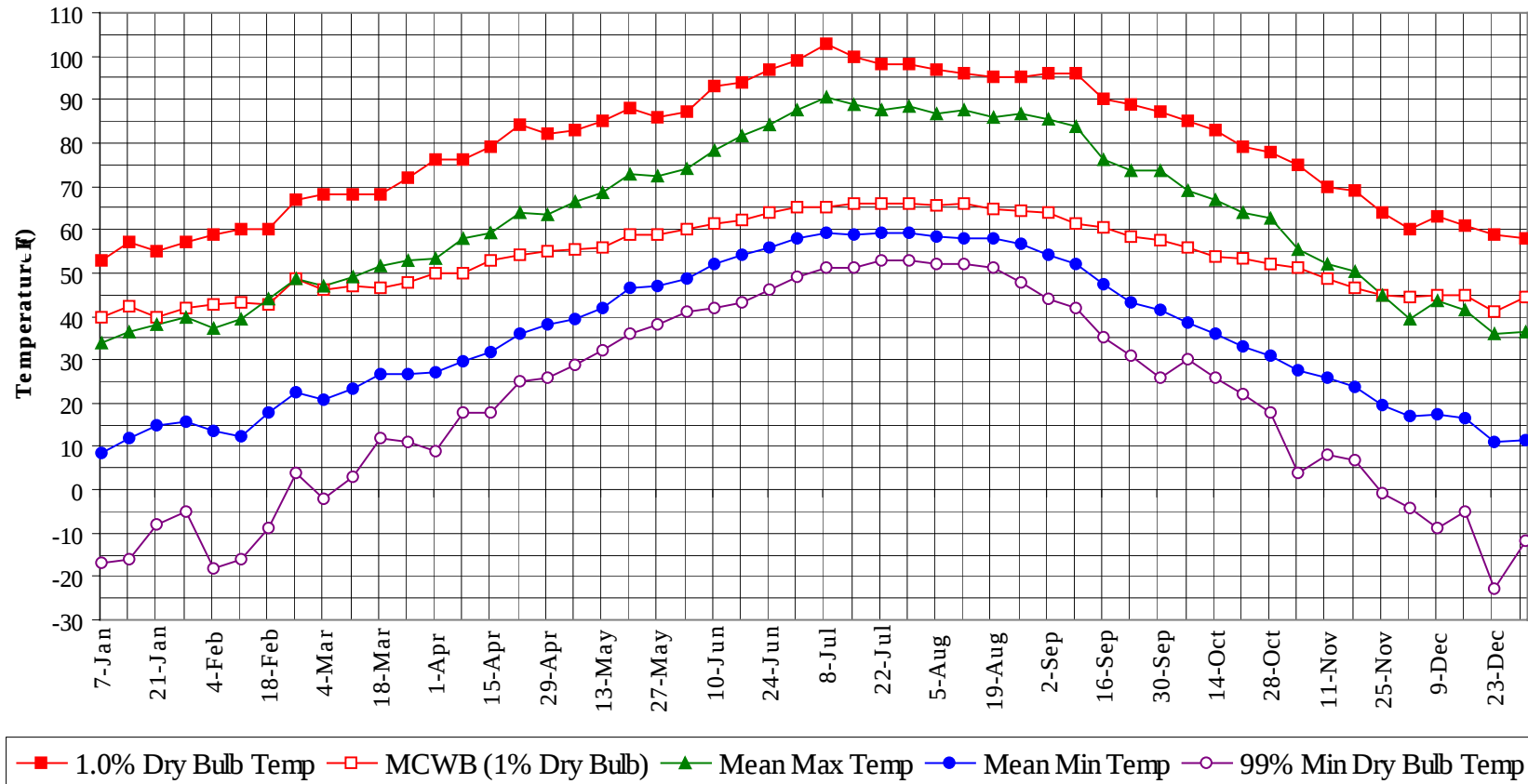
Temperature Range (°F)	Annual Totals				
	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		1	0	1	65.0
100 / 104		8	1	9	65.4
95 / 99		40	7	48	65.1
90 / 94	0	104	24	128	64.5
85 / 89	0	168	49	217	63.4
80 / 84	2	212	83	297	61.6
75 / 79	18	222	131	371	59.8
70 / 74	64	223	193	481	57.9
65 / 69	160	206	226	592	55.8
60 / 64	271	208	245	724	53.0
55 / 59	268	209	215	692	49.0
50 / 54	231	211	215	657	44.5
45 / 49	222	209	223	654	40.3
40 / 44	230	206	227	663	36.2
35 / 39	278	188	254	720	32.5
30 / 34	313	165	269	747	28.7
25 / 29	271	107	185	563	24.6
20 / 24	204	69	130	403	20.3
15 / 19	139	53	84	275	15.7
10 / 14	85	38	54	177	10.8
5 / 9	59	31	42	132	6.0
0 / 4	43	18	27	87	1.2
-5 / -1	19	7	14	40	-3.1
-10 / -6	20	6	12	37	-7.4
-15 / -11	12	3	7	23	-12.1
-20 / -16	9	2	4	14	-16.9
-25 / -21	4	0	2	6	-21.5
-30 / -26	1	0	0	1	-26.3
-35 / -31	0	0		0	-30.8
-40 / -36	0	0		0	
-45 / -41	0			0	

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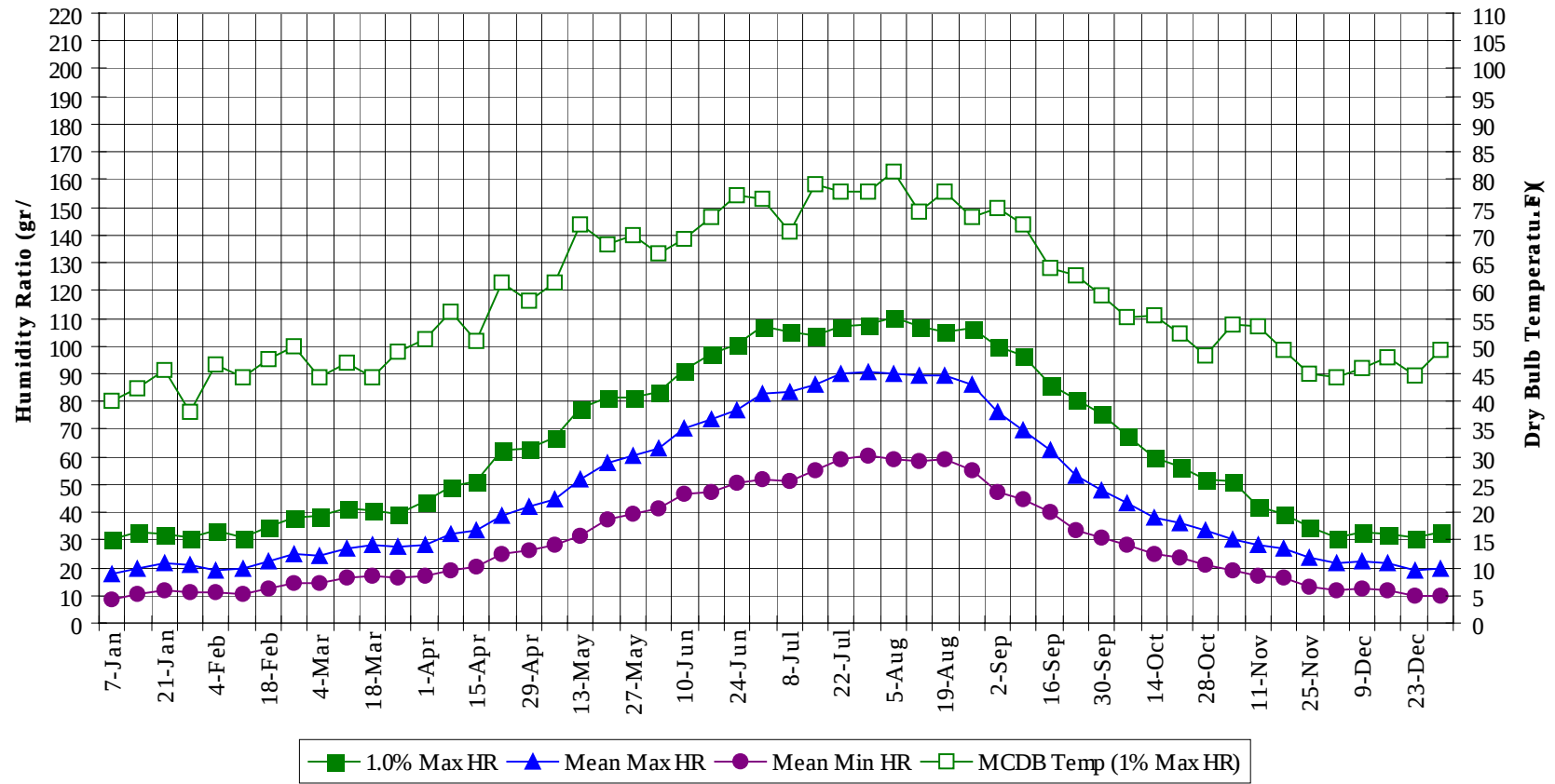
Annual Summary of Temperatures



SCOTTSBLUFF NE

WMO No. 725660

Long Term Humidity and Dry Bulb Temperature Summary



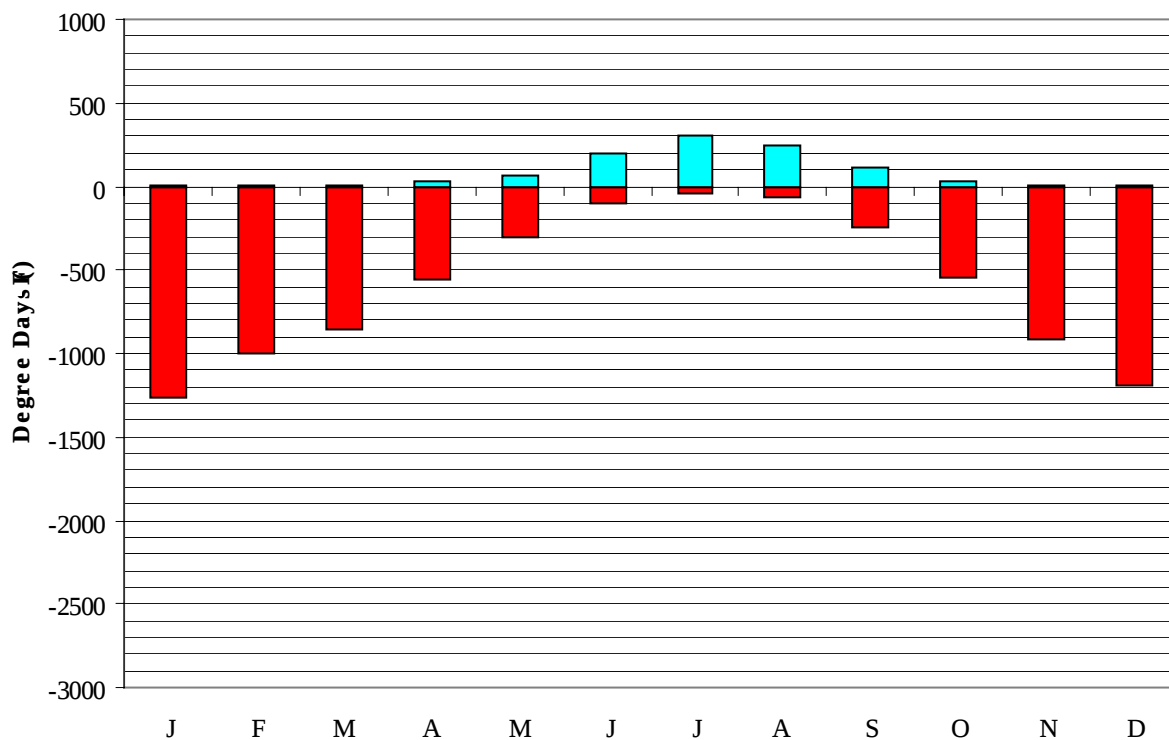
SCOTTSBLUFF NE**WMO No. 725660****Long Term Dry Bulb Temperature and Humidity Summary**

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	39.9	33.7	8.5	-17.0	30.1	39.9	18.0	8.8
14-Jan	57.0	42.3	36.4	12.0	-16.0	32.9	42.3	19.5	10.3
21-Jan	55.0	40.0	38.0	14.7	-8.0	32.2	45.8	21.5	11.5
28-Jan	57.0	42.0	40.0	15.7	-5.0	30.8	38.2	20.9	11.4
4-Feb	59.0	42.6	37.4	13.4	-18.0	33.6	46.5	19.2	11.2
11-Feb	60.0	43.2	39.5	12.4	-16.0	30.8	44.2	19.5	10.3
18-Feb	60.0	42.9	44.2	18.0	-9.0	35.0	47.5	22.4	12.6
25-Feb	67.0	48.7	48.5	22.3	4.0	37.8	49.9	24.7	14.5
4-Mar	68.0	46.3	46.9	20.8	-2.0	38.5	44.4	24.3	14.3
11-Mar	68.0	46.9	49.2	23.4	3.0	41.3	47.0	27.0	16.2
18-Mar	68.0	46.5	51.5	26.5	12.0	40.6	44.3	28.3	17.4
25-Mar	72.0	47.8	52.9	26.9	11.0	39.2	48.8	27.8	16.6
1-Apr	76.0	49.8	53.3	27.0	9.0	44.1	51.1	28.1	17.0
8-Apr	76.0	50.1	57.8	29.5	18.0	49.0	56.2	32.1	19.2
15-Apr	79.0	53.0	59.2	31.8	18.0	51.1	50.9	33.6	20.6
22-Apr	84.0	54.2	63.9	36.2	25.0	62.3	61.5	38.9	24.8
29-Apr	82.0	55.0	63.6	37.9	26.0	63.0	58.0	41.8	26.0
6-May	83.0	55.5	66.3	39.5	29.0	66.9	61.3	44.6	28.0
13-May	85.0	55.8	68.5	41.9	32.0	77.7	71.9	51.7	31.7
20-May	88.0	58.8	72.6	46.7	36.0	81.2	68.3	57.6	37.3
27-May	86.0	58.9	72.2	47.1	38.0	81.2	69.9	60.1	39.6
3-Jun	87.0	60.0	73.9	48.7	41.0	83.3	66.6	62.7	41.5
10-Jun	93.0	61.2	78.2	52.1	42.0	91.0	69.2	70.3	46.4
17-Jun	94.0	62.0	81.7	54.4	43.0	97.3	73.3	73.4	47.6
24-Jun	97.0	63.7	84.4	55.7	46.0	100.8	77.2	76.9	50.3
1-Jul	99.0	65.0	87.4	57.9	49.0	107.1	76.5	82.6	51.6
8-Jul	103.0	65.0	90.4	59.2	51.0	105.0	70.5	83.3	51.1
15-Jul	100.0	65.9	88.7	59.0	51.0	103.6	79.2	86.0	55.3
22-Jul	98.0	66.1	87.7	59.4	53.0	107.1	77.7	89.9	59.4
29-Jul	98.0	66.1	88.3	59.2	53.0	107.8	77.8	90.9	60.6
5-Aug	97.0	65.4	86.7	58.6	52.0	110.6	81.3	89.8	59.3
12-Aug	96.0	66.1	87.4	57.9	52.0	107.1	74.1	89.5	58.3
19-Aug	95.0	64.8	86.0	57.9	51.0	105.0	77.9	89.4	59.1
26-Aug	95.0	64.4	86.6	56.6	48.0	106.4	73.3	85.9	55.3
2-Sep	96.0	64.0	85.6	54.0	44.0	100.1	74.8	76.3	47.5
9-Sep	96.0	61.5	83.7	52.1	42.0	96.6	72.1	69.5	44.9
16-Sep	90.0	60.6	76.3	47.6	35.0	86.1	64.2	62.3	40.1
23-Sep	89.0	58.5	73.7	43.1	31.0	80.5	62.9	53.1	33.8
30-Sep	87.0	57.4	73.6	41.3	26.0	75.6	59.2	48.0	30.7
7-Oct	85.0	55.8	69.1	38.7	30.0	67.9	55.3	43.2	28.3
14-Oct	83.0	53.9	66.9	36.1	26.0	59.5	55.4	38.0	24.8
21-Oct	79.0	53.3	63.8	33.2	22.0	56.7	52.1	35.8	23.9
28-Oct	78.0	52.0	62.8	30.7	18.0	51.8	48.3	33.2	20.9
4-Nov	75.0	51.4	55.5	27.7	4.0	51.1	53.9	30.4	18.9
11-Nov	70.0	48.6	52.2	25.7	8.0	42.0	53.4	28.5	17.1
18-Nov	69.0	46.5	50.3	23.9	7.0	39.2	49.4	26.9	16.2
25-Nov	64.0	44.9	45.0	19.7	-1.0	35.0	45.1	23.6	13.2
2-Dec	60.0	44.3	39.6	17.1	-4.0	30.8	44.4	21.4	12.0
9-Dec	63.0	44.8	43.6	17.2	-9.0	32.9	45.8	22.6	12.4
16-Dec	61.0	45.0	41.7	16.7	-5.0	32.2	47.9	21.7	12.0
23-Dec	59.0	41.1	36.0	11.2	-23.0	30.8	44.8	19.2	10.0
31-Dec	58.0	44.3	36.5	11.3	-12.0	32.9	49.2	19.7	9.8

SCOTTSBLUFF NE

WMO No. 725660

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



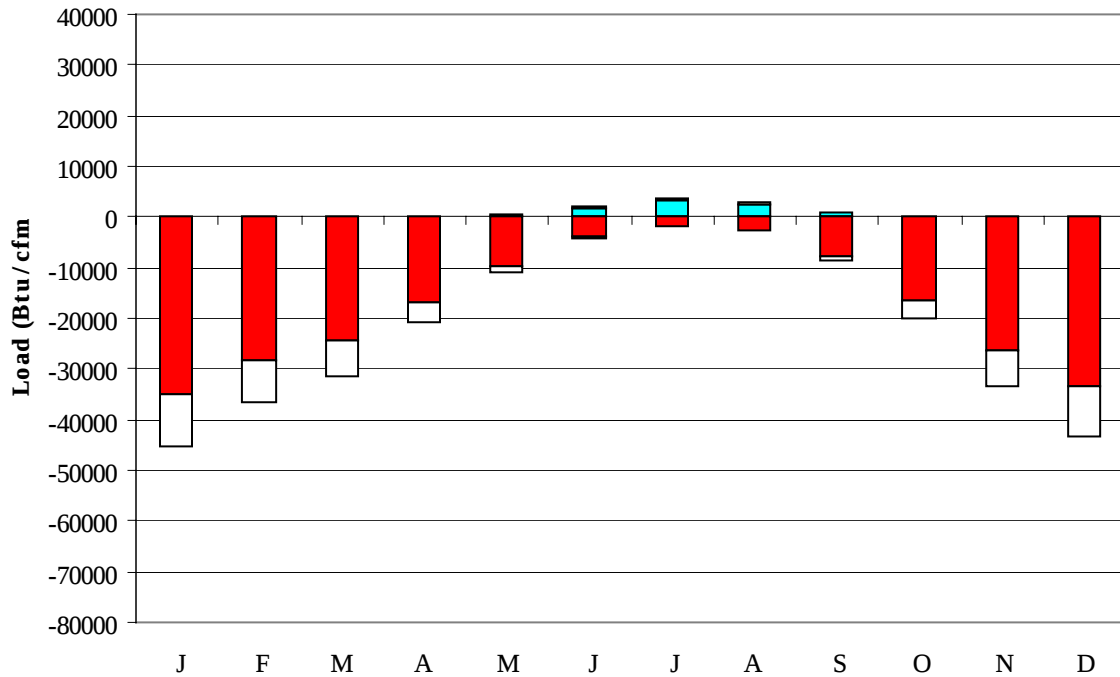
Mean Cooling Degree Days Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1260
FEB	0	1001
MAR	4	855
APR	26	561
MAY	69	303
JUN	196	105
JUL	300	41
AUG	245	65
SEP	119	240
OCT	31	550
NOV	3	920
DEC	0	1197
ANN	994	7098

SCOTTSBLUFF NE

WMO No. 725660

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

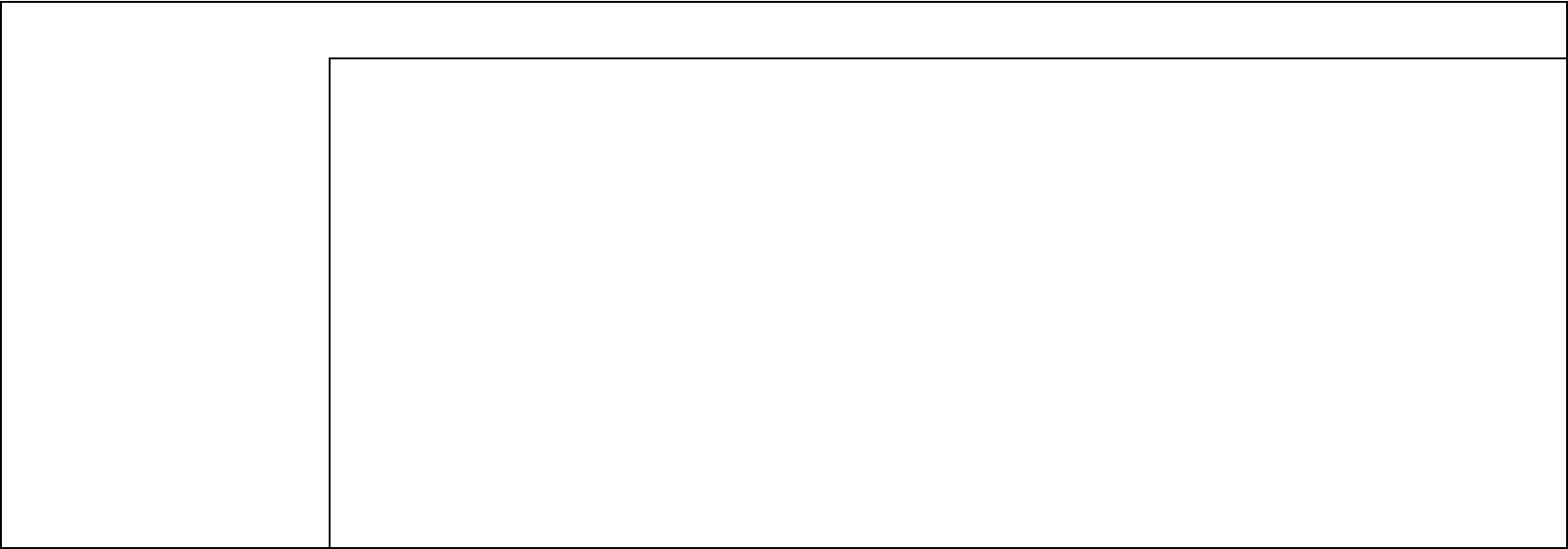


■ Average Sensible Cooling Load	■ Average Sensible Heating Load
■ Average Latent Cooling (Drying) Load	■ Average Latent Heating (Humidifying) Load

	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	-35060	0	-10160
FEB	0	-28145	0	-8365
MAR	5	-24525	0	-6951
APR	125	-16650	0	-4058
MAY	403	-9693	3	-1048
JUN	1834	-3865	109	-157
JUL	3239	-1861	342	-16
AUG	2445	-2665	335	-18
SEP	1052	-7797	22	-720
OCT	154	-16399	0	-3683
NOV	1	-26130	0	-7308
DEC	0	-33441	0	-9804
ANN	9258	-206231	811	-52288

Average Annual Solar Radiation – Nearest Available Site
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

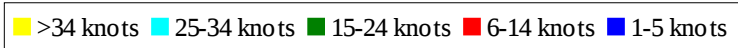
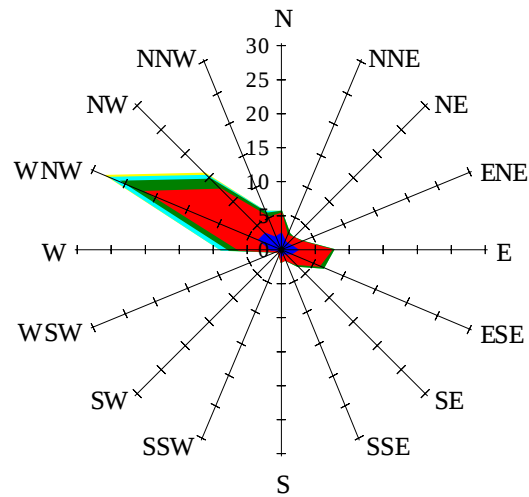


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

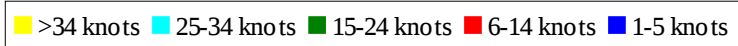
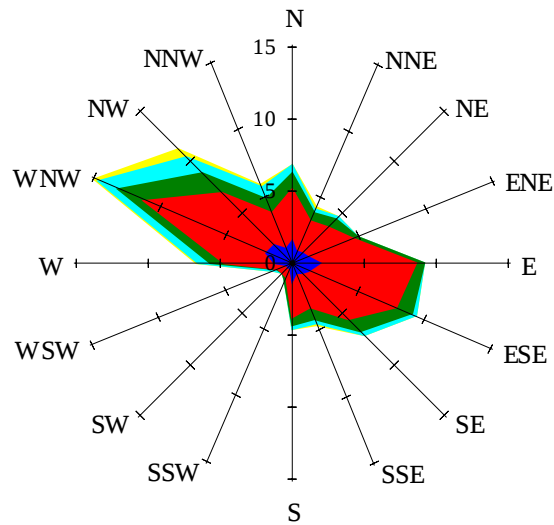
Labels of Percent Frequency on North Axis



Percent Calm = 5.05

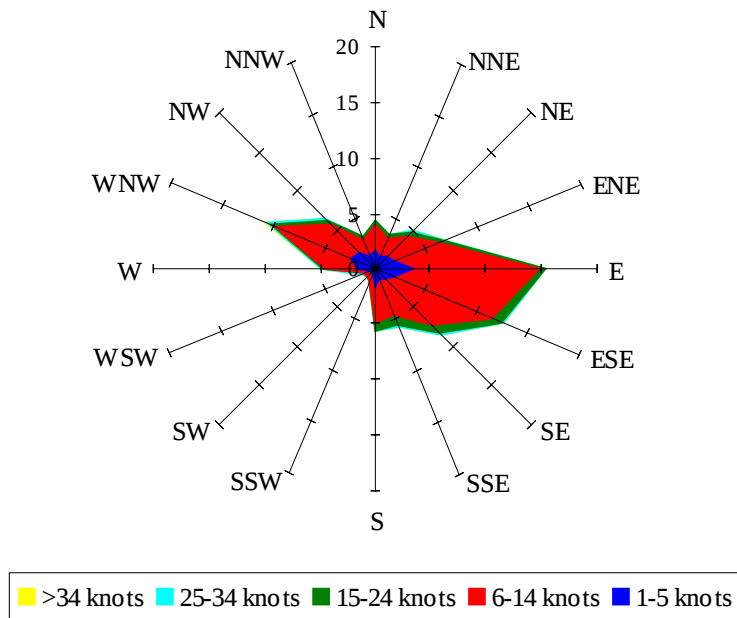
Wind Summary - March, April, and May

Labels of Percent Frequency on North Axis



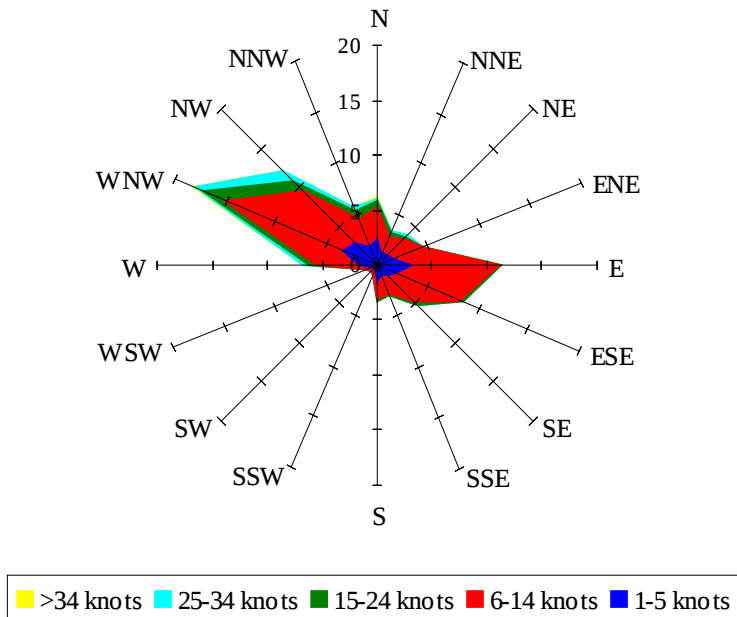
Percent Calm = 3.27

Wind Summary - June, July, and August **Labels of Percent Frequency on North Axis**



Percent Calm = 4.43

Wind Summary - September, October, and November **Labels of Percent Frequency on North Axis**



Percent Calm = 5.65