

NATRONA CO INTL, WY

Latitude = 42.91 N

Longitude = 106.46 W

Period of Record = 1988 To 2017

Station ID = ICAO_KCPR

Elevation = 5348 Feet

Average Pressure = 24.70 inches Hg

Design Criteria Data

Dry Bulb Temperature (T)	Mean Coincident (Average) Values				
	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	99	61	34	13.6	W
0.4% Occurrence	93	59	37	11.9	W
1.0% Occurrence	91	59	38	12	W
2.0% Occurrence	89	58	39	11.9	SW
Mean Daily Range	26	-	-	-	WSW
97.5% Occurrence	7	6	7	9.4	WSW
99.0% Occurrence	-1	-2	5	8.4	WSW
99.6% Occurrence	-9	-9	3	8.1	NNE
Median of Extreme Lows	-20	-20	1	6.4	NW

Wet Bulb Temperature (T _{wb})	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	66	85	81	10.7	E
0.4% Occurrence	63	83	69	10.5	E
1.0% Occurrence	62	82	65	10.4	E
2.0% Occurrence	61	81	62	10.4	SW

Humidity Ratio (HR)	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	97	68	0.54	8.3	E
0.4% Occurrence	85	67	0.47	8.5	E
1.0% Occurrence	79	67	0.44	8.7	E
2.0% Occurrence	74	66	0.41	8.4	E

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	58	615	0	3

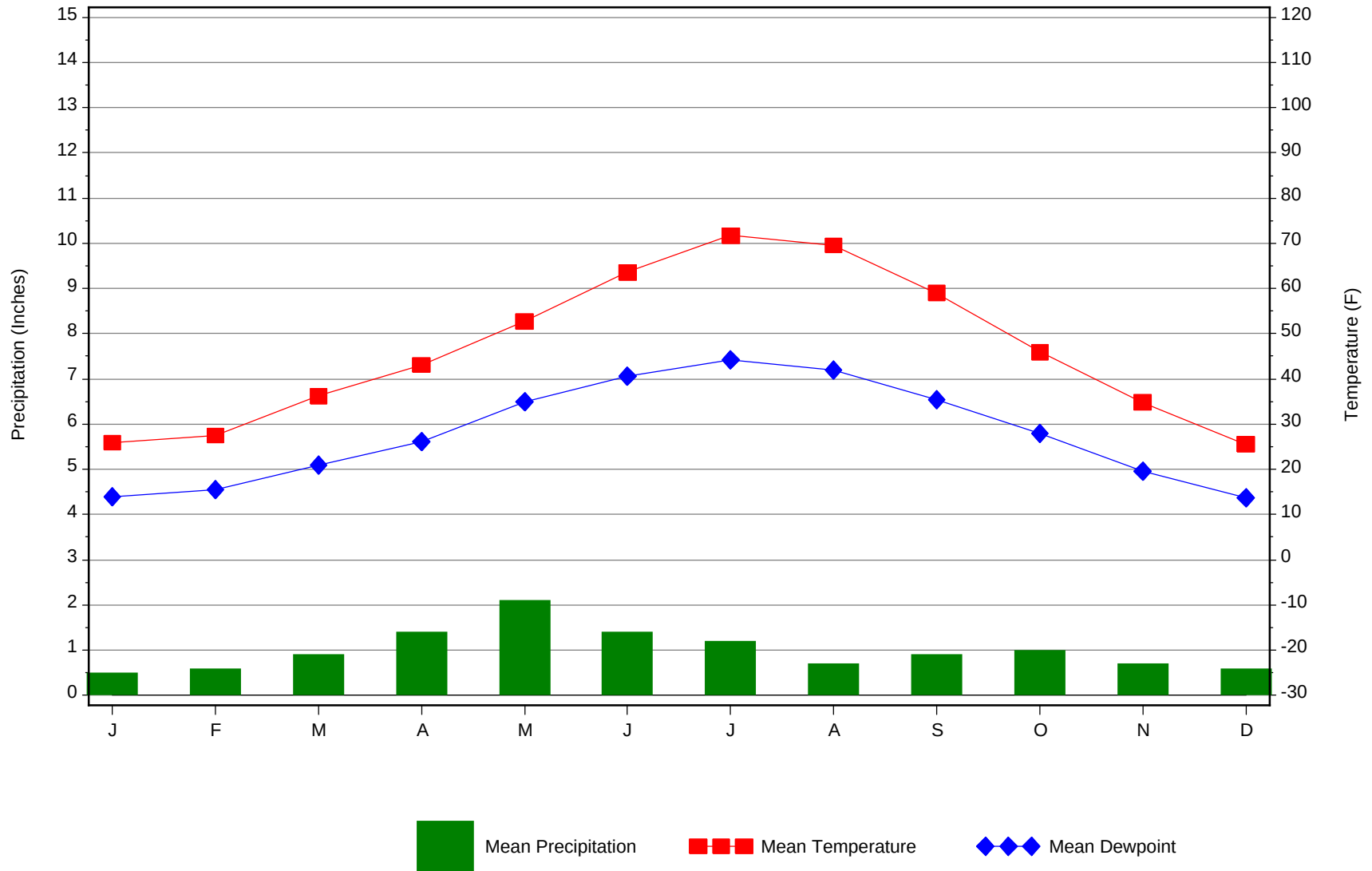
Other Site Data

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	2.8	90	0.0 + 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 (#)
48.9	N/A	10	112

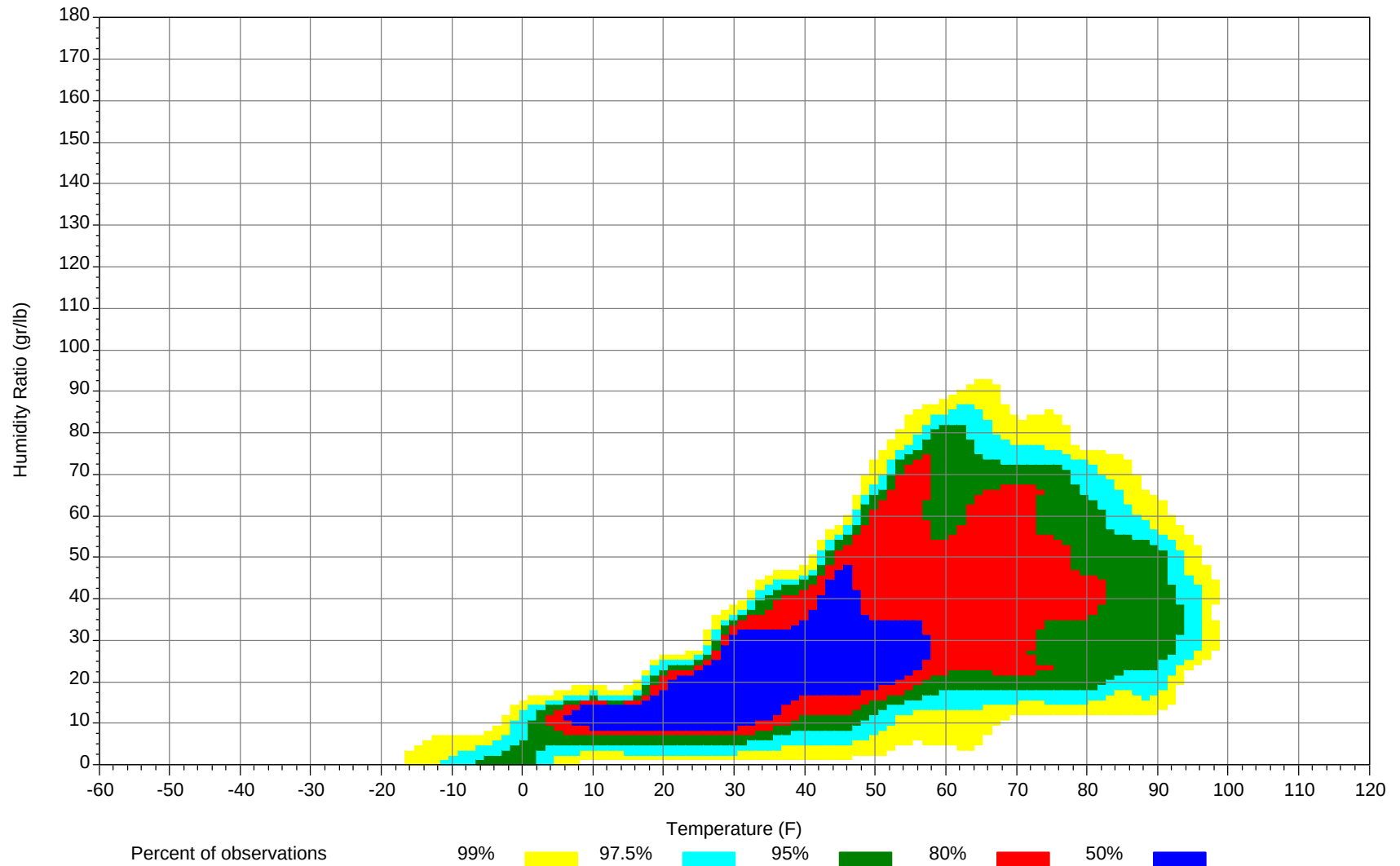
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



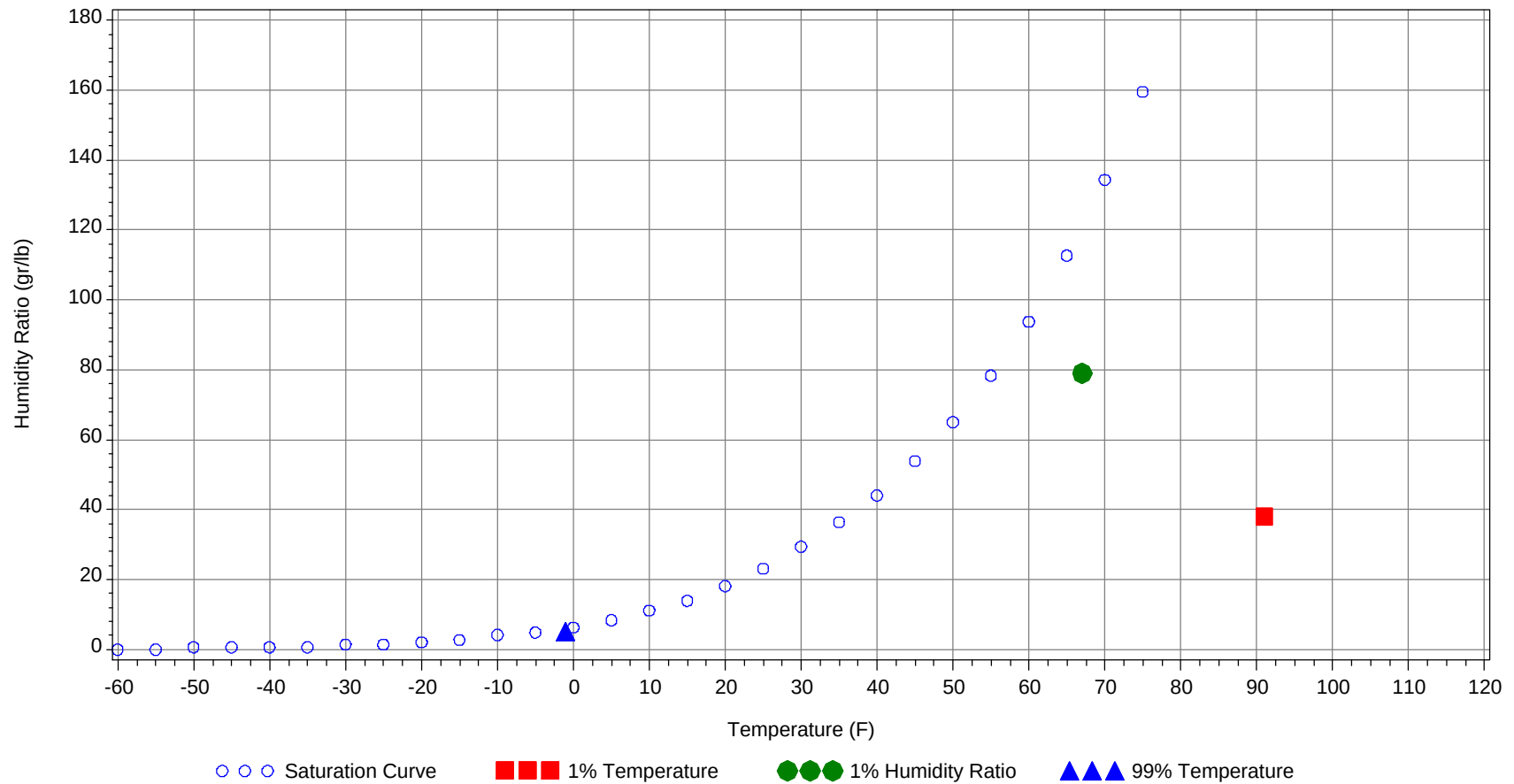
Average Annual Climate



Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values



	(° F) / (gr/lb)	MCDB (° F)	MCWB (° F)	MCDP (° F)	MCHR (gr/lb)	Enthalpy (btu/lb)
1.0% Dry Bulb	91.0		59		38.0	27.8
99.0% Dry Bulb	-1.0				5.0	0.5
1.0% Humidity Ratio	79.0	67.0	59.2	55.4		28.3

Dry-Bulb Temperature Hours For An Average Year

Temperature Range (°F)	January					February					March				
	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104															
95/ 99															
90/ 94															
85/ 89															
80/ 84															
75/ 79												0	0	0	49
70/ 74												3	0	3	46.8
65/ 69												6	1	7	45.6
60/ 64							1		1	44.9		19	4	23	43.4
55/ 59		1		1	40.6		5	0	5	42	1	26	9	36	41.4
50/ 54		6	0	6	39.1	0	14	2	16	39.2	4	32	18	54	39.3
45/ 49	2	21	5	28	36	2	25	8	35	36.5	14	39	30	83	36.8
40/ 44	7	25	14	46	33.7	9	26	19	54	34	22	26	29	77	34.4
35/ 39	28	50	38	116	30.7	27	37	34	98	30.8	43	32	44	119	31.7
30/ 34	42	40	45	127	27.3	36	36	38	110	27.5	50	26	42	118	28.5
25/ 29	51	38	44	133	23.3	44	31	41	116	23.8	50	20	34	104	24.5
20/ 24	27	21	29	77	19.3	28	15	23	66	19.5	24	7	14	45	20.1
15/ 19	35	19	29	83	15.3	32	13	23	68	15.7	21	7	11	39	16.2
10/ 14	20	11	15	46	10.4	17	7	13	37	10.6	10	3	6	19	11
5/ 9	13	7	11	31	6	10	6	7	23	6.1	4	2	3	9	6.1
0/ 4	11	6	9	26	0.9	8	4	6	18	0.9	4	1	2	7	0.9
-5/ -1	4	2	3	9	-3.4	3	1	2	6	-3.4	1	0	1	2	-3.2
-10/ -6	4	1	4	9	-7.8	4	1	2	7	-8.1	1		0	1	-7.7
-15/-11	2	0	1	3	-12.8	1	0	1	2	-12.6	0		0	0	-10.7
-20/-16	1	0	1	2	-16.9	1	0	2	3	-17.2	0			0	-15
-25/-21	0		0	0	-21.9	1	0	0	1	-22.2					
-30/-26	0		0	0	-26	1	1	1	3	-26.1					
-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.

Dry-Bulb Temperature Hours For An Average Year

Temperature Range (°F)	April					May					June				
	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104												0		0	59.8
95/ 99												4	1	5	58.8
90/ 94							0	0	0	58.7		17	4	21	58.1
85/ 89							2	0	2	55.5		19	6	25	57.2
80/ 84		1	0	1	51.5		12	3	15	54.2	1	36	14	51	56.5
75/ 79		5	1	6	50.6	0	23	6	29	53.4	3	41	21	65	55.4
70/ 74		15	3	18	48.1	1	34	14	49	51.8	8	45	31	84	54.2
65/ 69	0	17	6	23	46.4	3	28	14	45	50.1	13	26	26	65	52.9
60/ 64	1	30	13	44	44.8	9	42	29	80	48.3	28	27	41	96	51.4
55/ 59	5	30	17	52	42.7	18	35	34	87	46.3	44	12	39	95	49.5
50/ 54	11	32	26	69	40.6	34	29	43	106	44.8	61	6	32	99	47.2
45/ 49	26	34	37	97	38.4	58	22	46	126	41.9	54	5	18	77	43.7
40/ 44	30	23	31	84	36.2	46	9	26	81	38.8	17	1	4	22	39.7
35/ 39	51	27	45	123	33.5	46	8	21	75	35	9	1	2	12	35.8
30/ 34	57	16	36	109	29.7	25	4	10	39	30.5	1	0	0	1	32.7
25/ 29	37	5	18	60	25	8	0	2	10	25.8					
20/ 24	13	3	4	20	20.4	1		0	1	20.9					
15/ 19	6	1	3	10	16.6	0		0	0	17.8					
10/ 14	3	1	1	5	11										
5/ 9	0	0	0	0	6.1										
0/ 4	0		0	0	1										
-5/ -1	0			0	-3										
-10/ -6	0			0	-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

	July					August					September				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104		1	0	1	60.7										
95/ 99		14	3	17	60.3		5	1	6	60.3		0		0	62
90/ 94		46	14	60	59.3		35	7	42	58.5		5	0	5	58.7
85/ 89	0	42	17	59	58.9		42	14	56	58		14	3	17	56.4
80/ 84	2	60	33	95	58.4	1	63	26	90	57.3		34	8	42	54.5
75/ 79	10	38	33	81	57.5	6	44	33	83	56.5	0	40	13	53	53.3
70/ 74	27	26	45	98	56.4	24	32	46	102	55.2	5	41	21	67	52.1
65/ 69	28	10	32	70	55	28	13	34	75	54.1	9	25	21	55	50.6
60/ 64	62	6	43	111	54.1	50	10	43	103	52.7	23	30	39	92	49.1
55/ 59	64	3	20	87	51.8	59	4	28	91	50.3	35	19	39	93	46.9
50/ 54	40	1	6	47	48.5	51	2	14	67	47.5	47	14	38	99	44.6
45/ 49	13	0	1	14	44.3	22	1	3	26	43.2	52	10	33	95	41.6
40/ 44	2		0	2	40.7	5		1	6	38.9	30	4	13	47	38.7
35/ 39	1			1	37	2		0	2	36.4	27	2	9	38	35.3
30/ 34						0			0	29.6	10	1	3	14	31
25/ 29											2	1	1	4	26
20/ 24															
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

Temperature Range (°F)	October					November					December				
	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104															
95/ 99															
90/ 94															
85/ 89		0		0	52										
80/ 84		4	0	4	52.4										
75/ 79		10	1	11	50.8										
70/ 74		23	3	26	49.4		1		1	47.2					
65/ 69	0	22	6	28	47.7		4	0	4	45.5					
60/ 64	3	37	12	52	45.9		13	0	13	43.7		0		0	44.8
55/ 59	10	35	24	69	43.5	0	22	5	27	41.6		2	0	2	40.8
50/ 54	26	31	36	93	41.4	7	29	13	49	39.3	0	8	1	9	39
45/ 49	38	29	45	112	38.9	25	35	30	90	36.6	4	23	7	34	36.3
40/ 44	34	15	31	80	36.7	23	26	28	77	34	10	22	15	47	33.7
35/ 39	53	21	39	113	33.8	38	32	38	108	31.4	24	42	35	101	30.7
30/ 34	43	11	28	82	29.8	39	30	39	108	28.2	40	41	39	120	27.2
25/ 29	27	5	15	47	25.2	42	21	36	99	24.2	46	41	45	132	23.2
20/ 24	6	1	3	10	20.6	23	10	19	52	19.8	30	21	25	76	19.3
15/ 19	4	2	3	9	16.6	19	9	15	43	16	35	20	30	85	15.4
10/ 14	2	1	1	4	11	10	4	8	22	10.7	22	10	19	51	10.6
5/ 9	0	0	0	0	6.8	6	2	5	13	6	12	7	11	30	5.9
0/ 4	0		0	0	2.4	4	1	3	8	1.4	8	6	9	23	0.9
-5/ -1						1	0	1	2	-3.5	4	2	4	10	-3.6
-10/ -6						1	0	1	2	-7.7	5	2	4	11	-7.9
-15/-11						0	0	0	0	-12.7	2	1	2	5	-12.5
-20/-16						0		0	0	-17.6	2	1	1	4	-17
-25/-21						0		0	0	-22.3	1	1	1	3	-22.2
-30/-26						0		0	0	-25.7	1	0	0	1	-27
-35/-31											0	0	0	0	-32.4
-40/-36											0		0	0	-36.7
-45/-41											0			0	-40

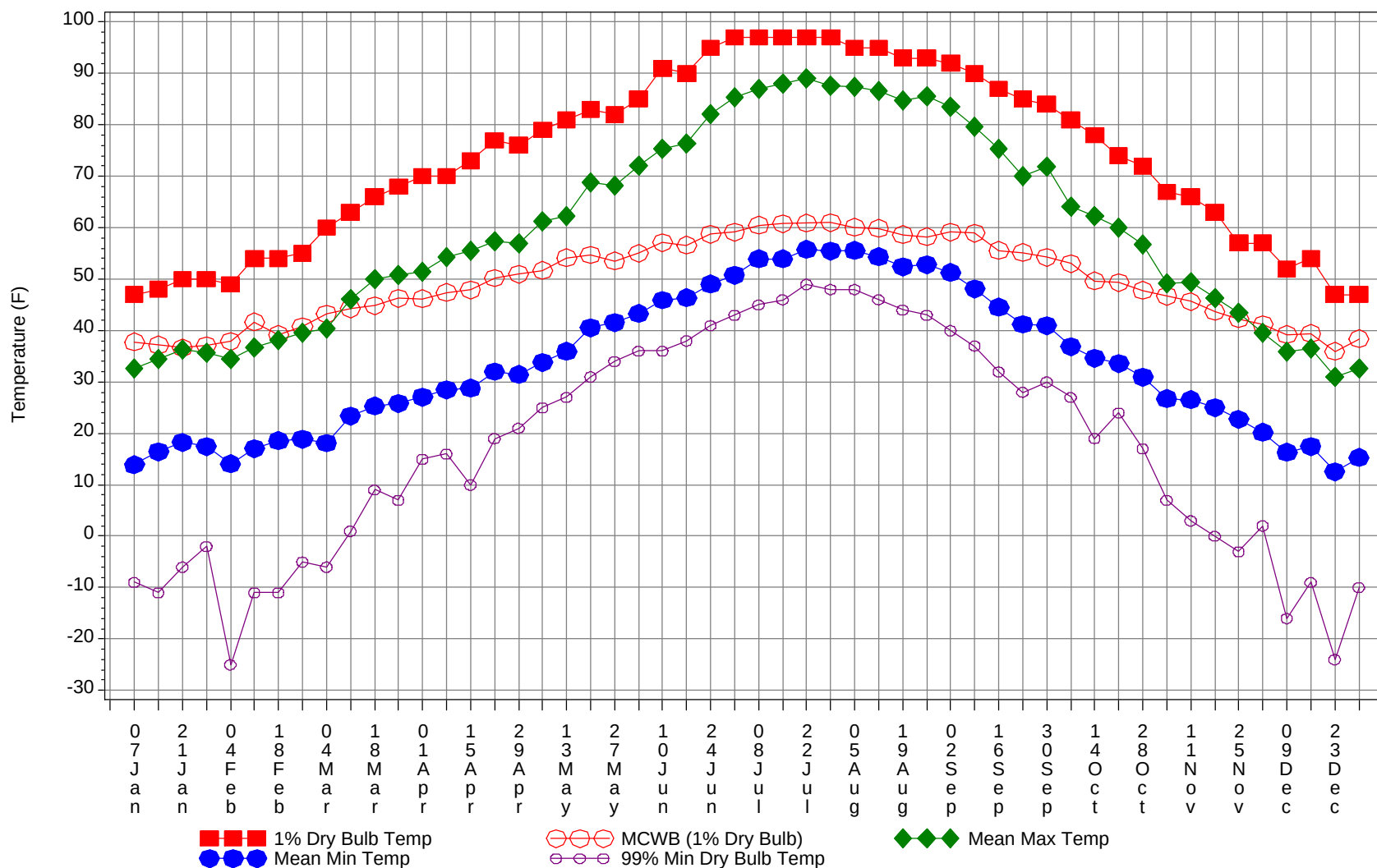
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Dry-Bulb Temperature Hours For An Average Year

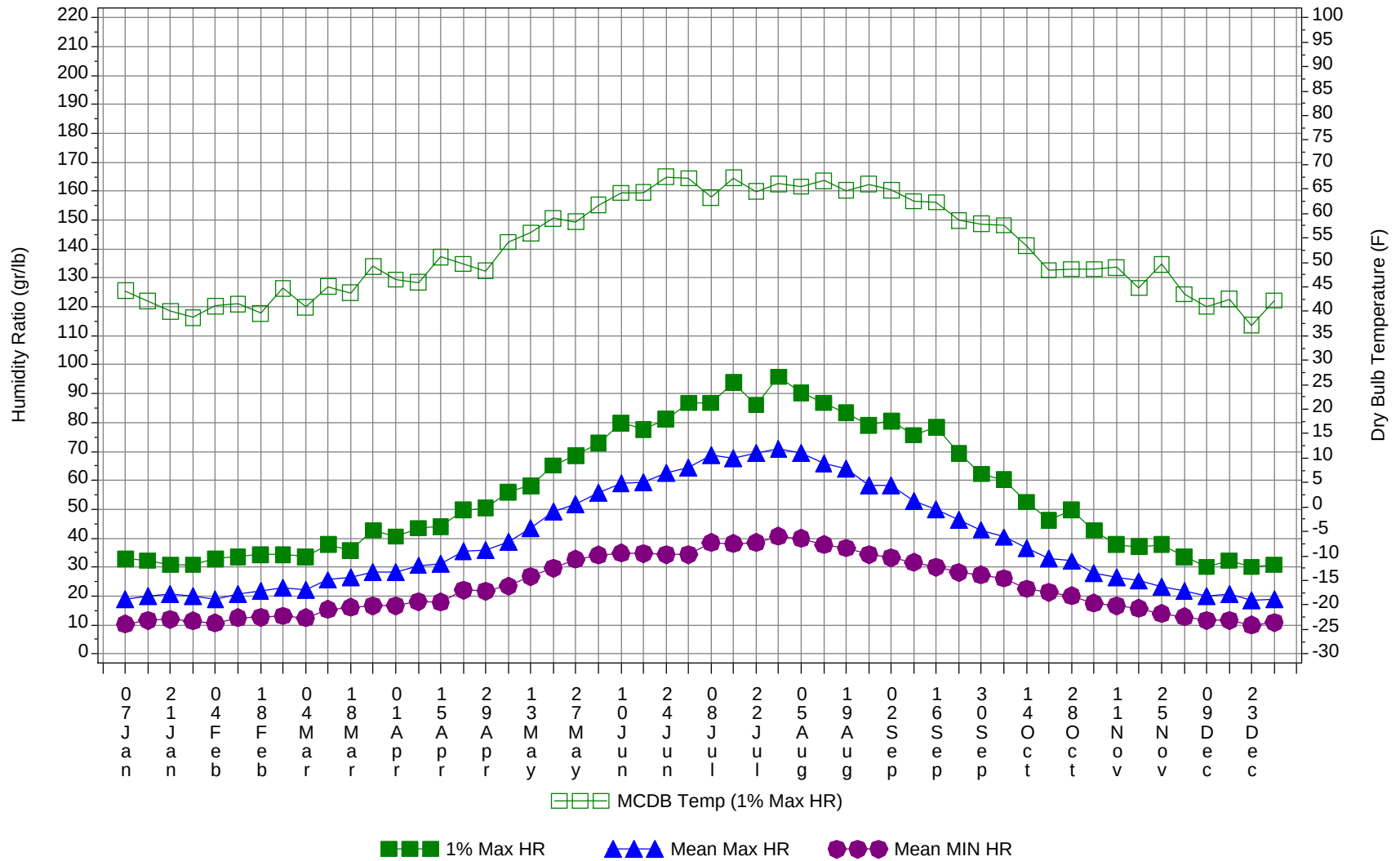
	Annual				
Temperature Range (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)
100/104		2	0	2	60.6
95/ 99		23	4	27	60
90/ 94		103	26	129	58.8
85/ 89	0	119	41	160	58
80/ 84	4	210	84	298	56.9
75/ 79	19	200	107	326	55.4
70/ 74	65	221	162	448	53.7
65/ 69	81	150	139	370	51.8
60/ 64	177	213	223	613	50
55/ 59	235	193	215	643	47
50/ 54	279	204	229	712	43.7
45/ 49	309	244	264	817	39.5
40/ 44	236	178	209	623	35.9
35/ 39	350	252	305	907	32.3
30/ 34	343	206	281	830	28.4
25/ 29	306	162	237	705	24
20/ 24	152	77	118	347	19.6
15/ 19	154	70	114	338	15.7
10/ 14	84	36	63	183	10.6
5/ 9	45	24	37	106	6
0/ 4	36	17	29	82	0.9
-5/ -1	14	6	11	31	-3.4
-10/ -6	15	5	10	30	-7.9
-15/-11	6	1	4	11	-12.6
-20/-16	5	1	4	10	-17.1
-25/-21	2	1	1	4	-22.2
-30/-26	2	1	1	4	-26.4
-35/-31	0	0	0	0	-32.4
-40/-36	0		0	0	-36.7
-45/-41	0			0	-40

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Annual Summary of Temperatures



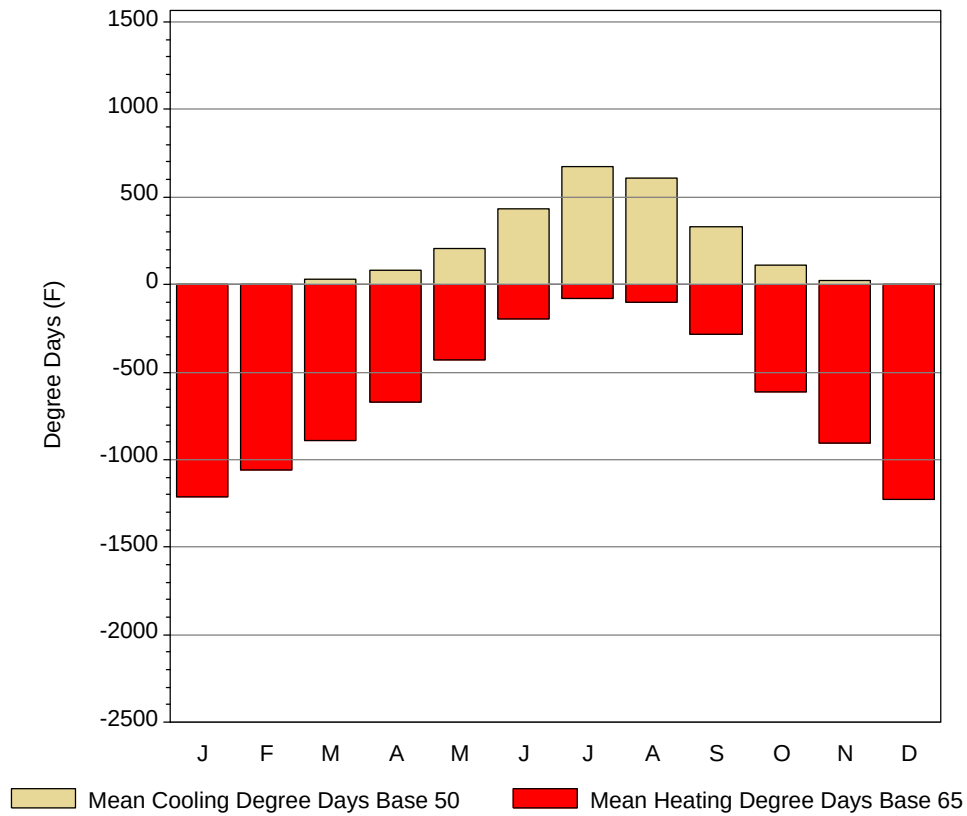
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

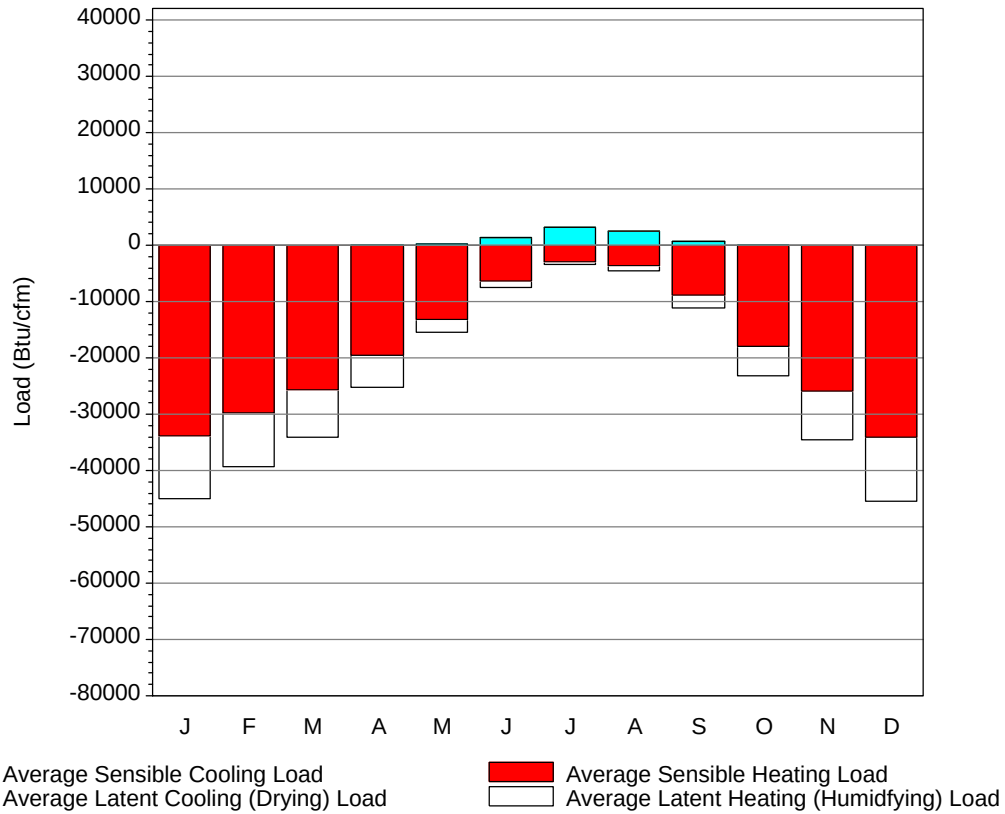
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	47	37.8	32.6	13.9	-9	32.9	44.2	19	10.3
14-Jan	48	37.2	34.5	16.4	-11	32.2	42.1	19.9	11.5
21-Jan	50	36.6	36.2	18.2	-6	30.8	40	20.7	12
28-Jan	50	37.1	35.6	17.4	-2	30.8	38.7	19.9	11.4
4-Feb	49	37.9	34.4	14.1	-25	32.9	41.1	18.9	10.7
11-Feb	54	41.7	36.7	17	-11	33.6	41.5	20.8	12.4
18-Feb	54	39.2	38.2	18.6	-11	34.3	39.6	21.8	12.7
25-Feb	55	40.8	39.6	18.9	-5	34.3	44.7	22.9	13.1
4-Mar	60	43.2	40.4	18.1	-6	33.6	40.9	22.2	12.4
11-Mar	63	44.2	46.1	23.4	1	37.8	45.1	25.6	15.3
18-Mar	66	44.8	49.9	25.3	9	35.7	43.8	26.5	16.1
25-Mar	68	46.3	50.9	25.8	7	42.7	49.2	28.4	16.7
1-Apr	70	46.2	51.4	27	15	40.6	46.5	28.2	16.7
8-Apr	70	47.4	54.2	28.5	16	43.4	45.9	30.6	18
15-Apr	73	47.9	55.5	28.8	10	44.1	51.1	31.2	17.9
22-Apr	77	50.2	57.4	32	19	49.7	49.7	35.5	22.1
29-Apr	76	51	56.9	31.4	21	50.4	48.3	35.9	21.7
6-May	79	51.7	61.3	33.8	25	56	54.2	38.8	23.4
13-May	81	54.1	62.2	35.9	27	58.1	56	43.4	26.8
20-May	83	54.7	68.7	40.5	31	65.1	59	49.2	29.7
27-May	82	53.5	68.2	41.6	34	68.6	58.3	51.8	32.7
4-Jun	85	55	72	43.3	36	72.8	61.7	55.7	34.1
10-Jun	91	57.1	75.3	45.9	36	79.8	64.2	59.1	34.9
17-Jun	90	56.6	76.4	46.4	38	77.7	64.3	59.3	34.7
24-Jun	95	58.7	82.1	49	41	81.2	67.5	62.7	34.4
1-Jul	97	59.1	85.3	50.8	43	86.8	67.2	64.5	34.4
8-Jul	97	60.5	87	53.9	45	86.8	63.3	68.7	38.5
15-Jul	97	60.8	88	53.9	46	93.8	67.3	67.6	38.2
22-Jul	97	60.9	89	55.8	49	86.1	64.5	69.5	38.5
29-Jul	97	61	87.6	55.5	48	95.9	66.1	71	40.6
5-Aug	95	60.1	87.4	55.6	48	90.3	65.5	69.5	40
12-Aug	95	59.9	86.5	54.3	46	86.8	66.7	65.8	37.8
19-Aug	93	58.6	84.8	52.4	44	83.3	64.7	64.1	36.6
26-Aug	93	58.2	85.5	52.8	43	79.1	66	58.4	34.4
2-Sep	92	59.1	83.6	51.3	40	80.5	64.8	58.3	33.2
9-Sep	90	58.9	79.7	48.1	37	75.6	62.5	52.8	31.7
16-Sep	87	55.6	75.3	44.5	32	78.4	62.3	50.1	30
23-Sep	85	55.2	70.1	41.2	28	69.3	58.6	46.3	28.1
30-Sep	84	54.2	71.8	40.9	30	62.3	57.9	42.9	27.3
7-Oct	81	53	64	36.9	27	60.2	57.6	40.4	26.1
14-Oct	78	49.6	62.3	34.6	19	52.5	53.4	36.5	22.5
21-Oct	74	49.3	60	33.6	24	46.2	48.4	33.1	21.3
28-Oct	72	47.8	56.7	30.9	17	49.7	48.6	32.1	20.1
4-Nov	67	46.7	49.2	26.7	7	42.7	48.6	28	17.6
11-Nov	66	45.6	49.4	26.5	3	37.8	49	26.4	16.6
18-Nov	63	43.7	46.4	25	0	37.1	44.8	25.2	15.7
25-Nov	57	42.3	43.4	22.7	-3	37.8	49.6	23.1	13.9
2-Dec	57	41.2	39.5	20.2	2	33.6	43.5	21.8	12.8
9-Dec	52	39.2	35.8	16.3	-16	30.1	41	20.1	11.5
16-Dec	54	39.4	36.5	17.4	-9	32.2	42.5	20.6	11.6
23-Dec	47	35.9	31	12.5	-24	30.1	37.2	18.4	10
31-Dec	47	38.4	32.6	15.3	-10	30.8	42.2	18.8	10.8

Degree Days, Heating and Cooling (Base 65 F) & Cooling (Base 50F)



Month	Mean Cooling Degree Days (°F) Base 50	Mean Cooling Degree Days (°F) Base 65	Mean Heating Degree Days (°F) Base 65
JAN	0.6	0	1211.1
FEB	3	0	1060.9
MAR	33.2	1.4	893.9
APR	82.7	10.1	668.2
MAY	205.4	44.2	426.8
JUN	432.7	150.3	192.3
JUL	676.2	286.9	78
AUG	611	243.2	103
SEP	331.3	100.1	281.2
OCT	114.1	17.4	609.6
NOV	21.6	0.6	907
DEC	1.3	0	1224.6
ANN	2513.1	854.2	7656.6

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



Month	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	-33801	0	-11142
FEB	0	-29696	0	-9588
MAR	0	-25558	0	-8455
APR	17	-19530	0	-5741
MAY	203	-13081	0	-2341
JUN	1339	-6381	1	-1050
JUL	3185	-2962	11	-517
AUG	2440	-3717	2	-875
SEP	736	-8923	1	-2265
OCT	48	-18026	0	-5108
NOV	0	-25832	0	-8655
DEC	0	-34151	0	-11202
ANN	7968	-221658	15	-66939

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	CASPER, WY 24089	Window:	1.000
Lat, Lon, Elev	42.92N 106.47W 5289ft	Overhang:	0.618
Press, Stn_Type	12.1psia Secondary	Vert Gap:	0.330

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	630	910	1280	1640	1920	2200	2220	1990	1550	1090	700	540	1390
	Std.Dev.	32	48	69	92	111	145	83	103	108	75	31	25	35
	Minimum	560	810	1140	1490	1700	1890	2100	1710	1320	920	640	510	1300
	Maximum	700	1020	1410	1880	2130	2410	2370	2130	1750	1230	750	610	1450
	Diffuse	250	350	500	650	730	680	620	540	440	350	280	220	470
Clear Day	Global	820	1180	1710	2260	2630	2780	2680	2360	1870	1320	890	710	1770
NORTH	Global	180	240	340	440	560	660	610	480	350	270	190	150	370
	Diffuse	180	240	330	420	490	510	490	430	350	270	190	150	340
Clear Day	Global	150	210	290	400	590	730	660	470	320	230	170	140	360
EAST	Global	460	630	840	1040	1180	1330	1370	1270	1030	750	510	410	900
	Diffuse	220	300	420	520	580	590	580	530	430	330	240	190	410
Clear Day	Global	680	900	1200	1450	1590	1630	1600	1480	1270	980	720	600	1180
SOUTH	Global	1230	1330	1290	1100	940	900	970	1160	1350	1400	1240	1160	1170
	Diffuse	340	410	490	540	560	550	540	520	470	410	350	300	460
Clear Day	Global	1990	2080	1950	1550	1190	1030	1090	1370	1770	2010	2000	1910	1660
WEST	Global	470	630	830	970	1080	1200	1190	1130	980	740	510	410	850
	Diffuse	230	300	420	530	590	610	590	540	440	330	250	190	420
Clear Day	Global	680	900	1200	1450	1590	1630	1600	1480	1270	980	720	600	1180

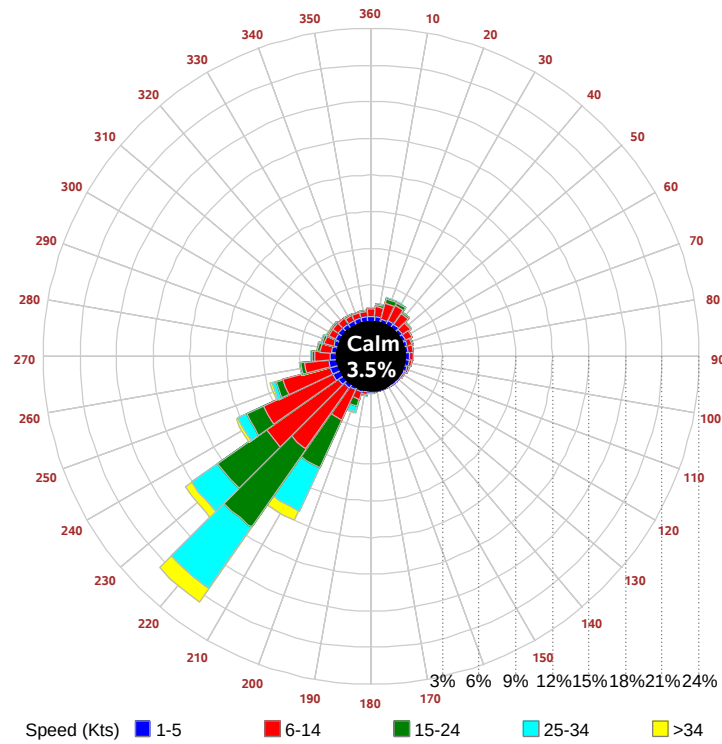
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	390	610	900	1170	1390	1610	1620	1440	1100	740	450	320	980
NORTH	Unshaded	120	170	230	300	370	420	390	310	240	180	130	110	250
	Shaded	110	150	200	260	320	370	350	280	220	160	120	93	220
EAST	Unshaded	320	440	600	750	850	950	980	910	740	530	350	280	640
	Shaded	280	390	510	630	700	790	810	760	630	460	310	250	540
SOUTH	Unshaded	930	990	900	730	590	540	580	740	920	1020	930	880	810
	Shaded	910	910	690	430	340	340	330	380	620	890	900	870	630
WEST	Unshaded	320	440	590	690	770	860	850	810	700	530	350	280	600
	Shaded	290	390	500	580	640	710	700	680	600	460	310	250	510

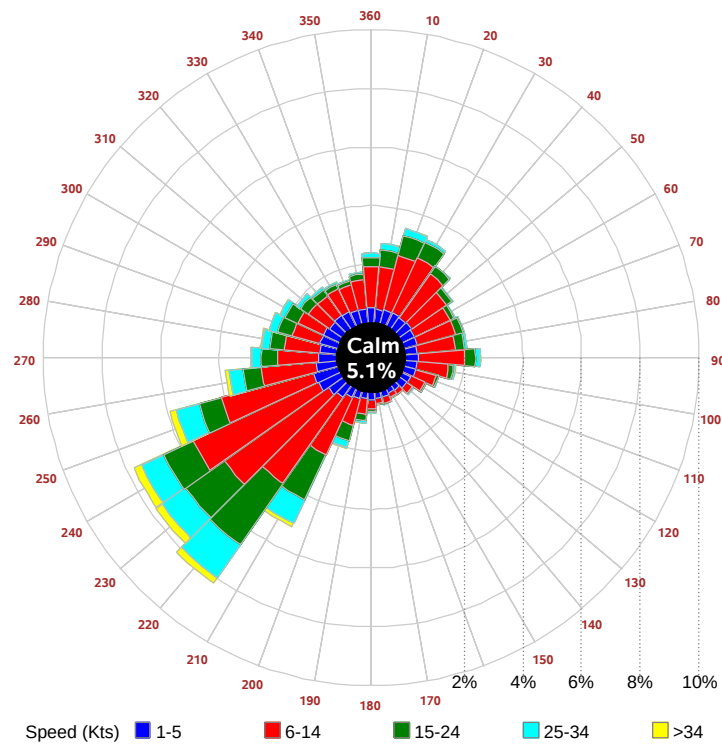
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	38	69	77	62	28	50	84	99	95	71	
	M.Cloudy	25	48	57	44	19	33	63	76	69	50	
NORTH	M.Clear	9	13	14	12	8	16	14	16	15	13	
	M.Cloudy	9	15	16	14	7	13	16	17	17	15	
EAST	M.Clear	78	58	14	12	8	87	74	31	15	13	
	M.Cloudy	37	37	16	14	7	44	52	28	17	15	
SOUTH	M.Clear	42	77	87	70	31	11	35	51	46	24	
	M.Cloudy	23	46	56	43	16	11	29	41	36	20	
WEST	M.Clear	9	13	20	66	73	11	14	16	50	81	
	M.Cloudy	9	15	20	41	32	11	16	17	38	52	
M.Clear	(% hrs)	30	31	25	25	26	54	52	46	37	31	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	28	65	83	76	48	11	36	42	26	0	
	M.Cloudy	18	45	59	52	33	8	24	29	17	0	
NORTH	M.Clear	8	12	14	14	10	4	9	9	7	0	
	M.Cloudy	7	14	16	15	11	4	9	10	7	0	
EAST	M.Clear	75	72	28	14	10	40	39	9	7	0	
	M.Cloudy	30	44	24	15	11	14	21	10	7	0	
SOUTH	M.Clear	23	61	80	73	43	36	83	92	66	1	
	M.Cloudy	12	38	53	46	26	13	39	46	29	0	
WEST	M.Clear	8	12	14	52	80	4	9	20	48	1	
	M.Cloudy	7	14	16	35	43	4	9	14	23	0	
M.Clear	(% hrs)	56	55	52	47	46	32	35	34	33	36	

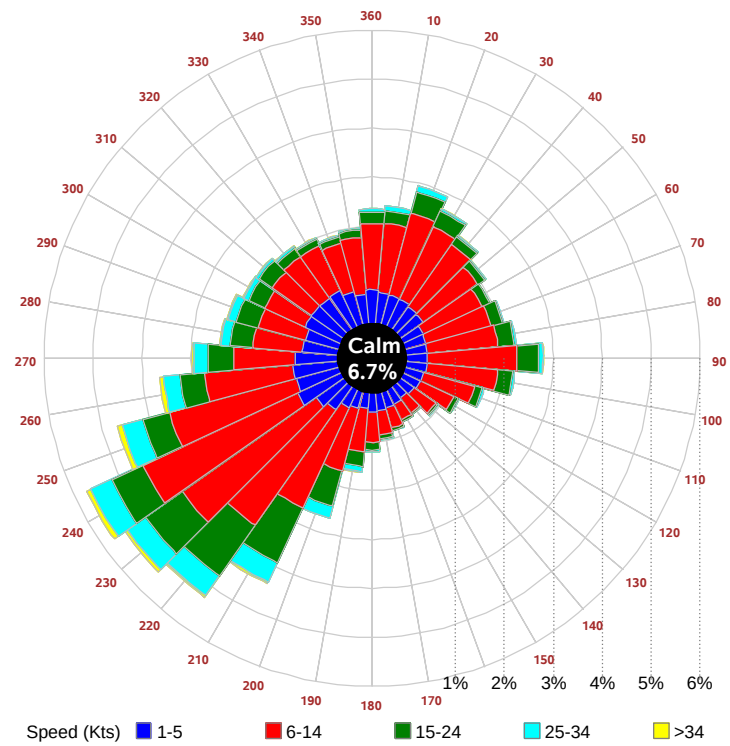
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

