

GALENA AK

Latitude = 64.73 N

Longitude = 156.90 W

Period of Record = 1967 to 1996

WMO No. 702220

Elevation = 151 feet

Average Pressure = 29.64 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	83	63	56	4.7	E
0.4% Occurrence	77	60	53	5.2	N
1.0% Occurrence	74	59	52	5.1	N
2.0% Occurrence	71	58	51	5.0	N
Mean Daily Range	16	-	-	-	-
97.5% Occurrence	-36	-36	1	0.6	W
99.0% Occurrence	-44	-44	0	0.3	W
99.6% Occurrence	-49	-50	0	0.3	W
Median of Extreme Lows	-50	-50	0	0.3	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	65	76	73	4.3	E
0.4% Occurrence	63	73	68	4.4	E
1.0% Occurrence	61	71	64	4.3	E
2.0% Occurrence	59	68	60	4.2	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	81	67	0.54	3.8	ESE
0.4% Occurrence	73	66	0.49	3.7	E
1.0% Occurrence	69	64	0.46	3.8	ESE
2.0% Occurrence	65	63	0.44	3.7	SE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		0	17	0	2

Other Site Data

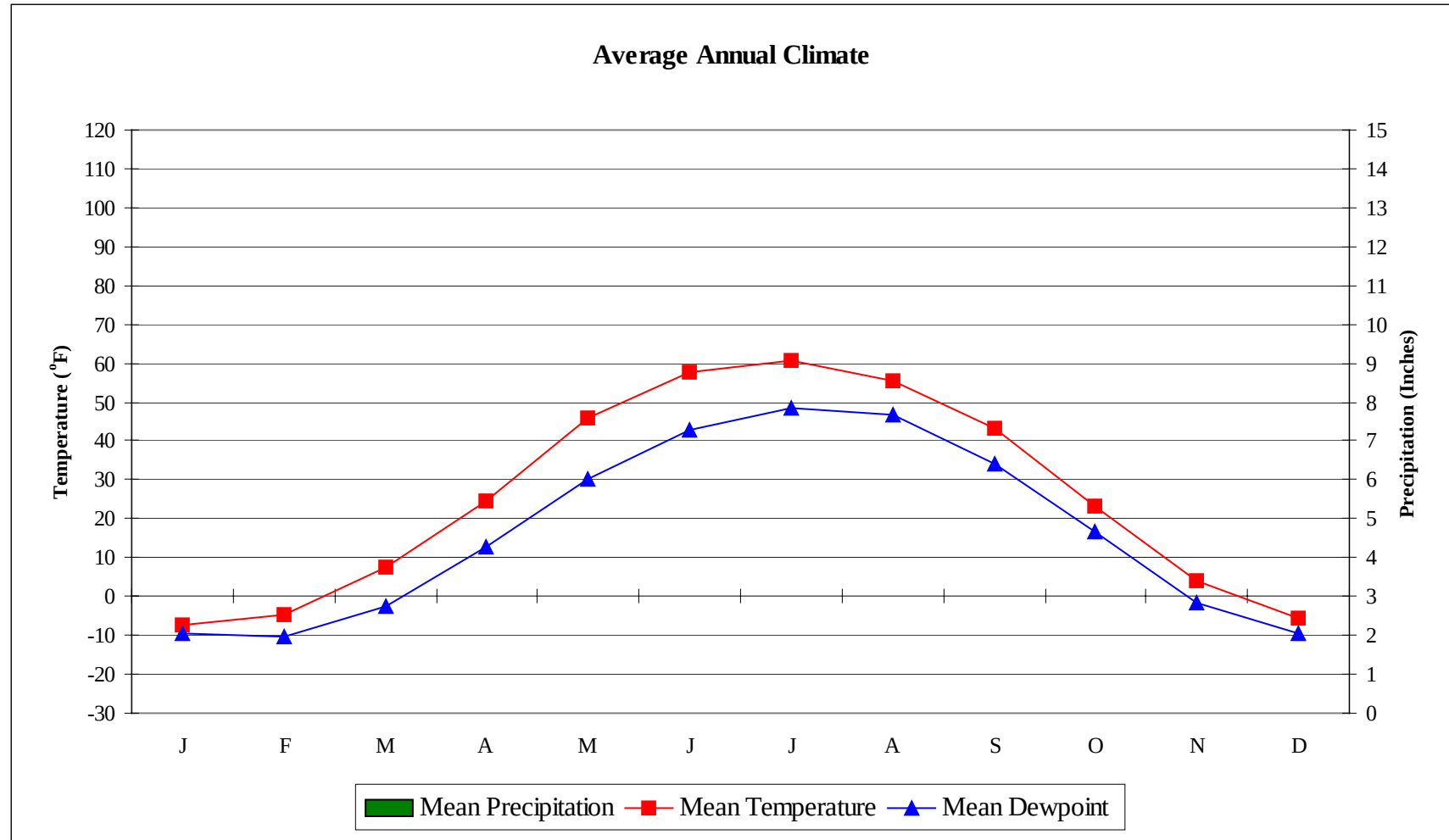
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
2	0.8	110	0.0 + 0.0
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
27.9	N/A	N/A	38

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

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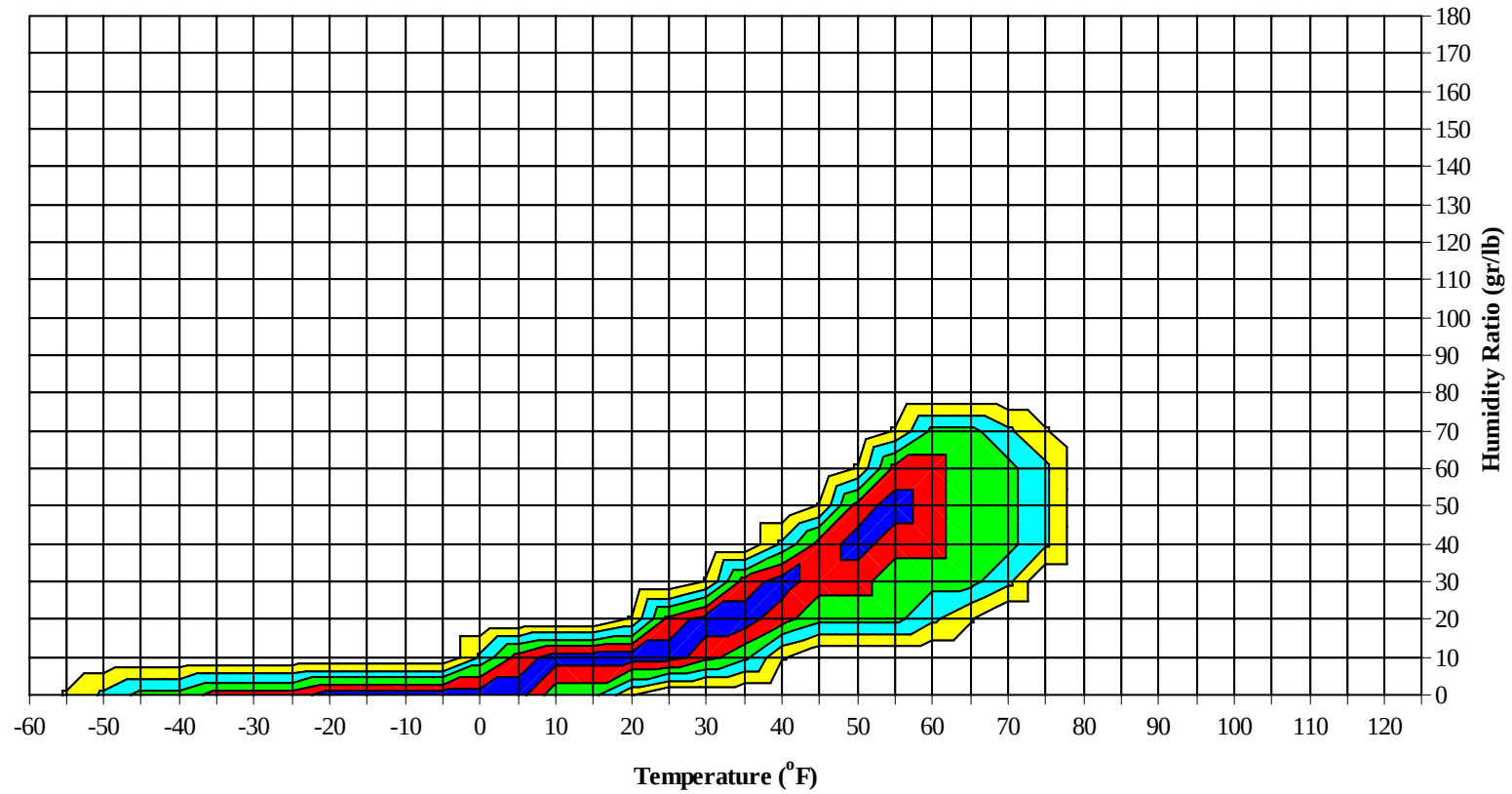
No Precipitation Data Available

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Long Term Psychrometric Summary



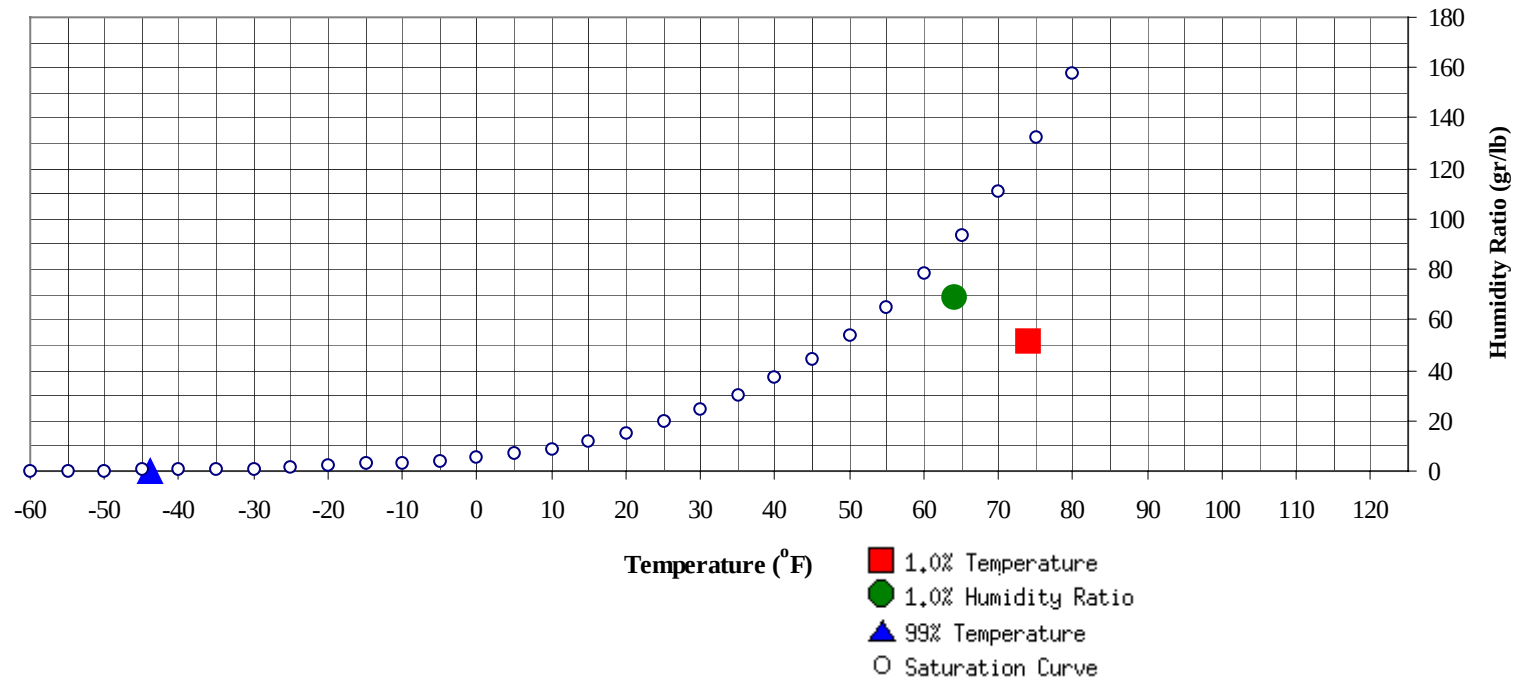
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	-44	0	-10.6		68.6	64	59.3	56.4	26.0

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	74	51.5	59.1	25.8

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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		
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64															
55 / 59															
50 / 54															
45 / 49															
40 / 44	0	0	0	0	35.5	0	0	0	0	38.1		1	2	3	34.3
35 / 39	2	2	2	6	33.3	2	3	3	8	32.8	2	9	9	20	31.8
30 / 34	4	4	5	13	29.3	6	6	8	20	28.8	9	16	17	42	28.0
25 / 29	8	7	7	22	24.6	9	9	9	27	24.6	12	20	24	56	23.8
20 / 24	11	14	12	37	20.0	9	9	11	29	20.0	20	26	30	76	19.6
15 / 19	17	18	17	52	15.5	14	16	16	46	15.4	24	25	29	78	14.9
10 / 14	18	19	19	56	10.7	16	18	17	51	10.8	22	27	30	79	10.3
5 / 9	20	23	26	69	5.8	14	19	22	55	5.7	26	30	32	88	5.5
0 / 4	23	23	20	66	1.0	17	19	21	57	0.9	25	26	24	75	0.9
-5 / -1	17	17	19	53	-3.3	15	17	15	47	-3.4	19	18	16	53	-3.4
-10 / -6	17	18	18	53	-7.9	17	18	17	52	-7.7	23	16	14	53	-7.7
-15 / -11	18	15	18	51	-12.3	17	17	19	53	-12.4	22	13	9	44	-12.3
-20 / -16	14	13	15	42	-17.0	14	16	18	48	-17.2	15	8	5	28	-17.0
-25 / -21	14	15	14	43	-22.1	18	16	17	51	-22.0	12	6	4	22	-21.8
-30 / -26	11	11	12	34	-27.2	14	12	13	39	-27.0	9	3	2	14	-26.8
-35 / -31	10	10	11	31	-32.0	14	10	8	32	-31.9	5	2	1	8	-31.7
-40 / -36	13	13	13	39	-36.6	12	9	6	27	-36.9	3	1	0	4	-36.8
-45 / -41	13	10	11	34	-41.4	8	5	4	17	-42.5	1	0	0	1	
-50 / -46	7	8	7	22	-47.8	6	3	2	11	-47.8	0	0		0	
-55 / -51	5	4	4	13	-51.0	2	1	0	3	-51.9					
-60 / -56	2	2	2	6		0	0		0						
-65 / -61	1	1	0	2											
-70 / -66	0	0		0											
-75 / -71		0		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 = 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		
85 / 89												0	0	0	63.6
80 / 84							0	0	0	56.8		2	2	4	61.2
75 / 79							1	2	3	55.4		8	9	17	58.9
70 / 74							3	4	7	53.8	0	20	23	43	56.8
65 / 69						0	9	10	19	50.9	2	40	43	85	54.4
60 / 64						1	24	24	49	48.5	14	58	60	132	52.6
55 / 59		0	0	0	43.3	3	39	41	83	46.0	53	54	52	159	50.5
50 / 54		4	4	8	41.0	15	51	51	117	43.7	82	40	39	161	47.5
45 / 49	0	11	12	23	38.7	39	45	46	130	41.0	63	14	10	87	43.7
40 / 44	3	25	28	56	35.8	61	38	38	137	37.4	18	5	3	26	39.0
35 / 39	23	39	43	105	32.6	67	22	21	109	33.4	6	0	0	6	34.4
30 / 34	37	37	42	116	28.6	40	9	7	56	29.1	1	0		1	31.2
25 / 29	36	33	34	103	23.8	13	3	2	18	24.8					
20 / 24	29	26	24	79	19.1	3	2	1	6	19.8					
15 / 19	26	23	19	68	14.7	2	1	1	4	14.7					
10 / 14	24	16	14	54	10.2	1	1	1	3	10.2					
5 / 9	18	12	9	39	5.6	1	0	0	1	6.0					
0 / 4	12	7	6	25	0.8	1	0		1	1.5					
-5 / -1	8	4	3	15	-3.4	0			0	-2.0					
-10 / -6	8	3	2	13	-7.7										
-15 / -11	7	1	0	8	-12.4										
-20 / -16	4	1	0	5	-17.0										
-25 / -21	2	0	0	2	-21.7										
-30 / -26	1	0		1	-26.3										
-35 / -31	0			0	-30.0										
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															
-60 / -56															
-65 / -61															
-70 / -66															
-75 / -71															

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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		
85 / 89		0	0	0	64.0										
80 / 84		4	6	10	62.9		1	1	2	63.0					
75 / 79		14	18	32	60.9		4	5	9	62.1					
70 / 74	0	33	35	68	59.0	0	12	12	24	59.7		0	0	0	55.0
65 / 69	6	51	52	109	57.3	1	27	27	55	57.4		2	3	5	53.7
60 / 64	40	60	59	160	55.3	13	50	50	113	55.4	0	9	9	18	50.9
55 / 59	90	56	51	197	52.7	50	70	72	192	52.7	3	25	25	53	49.4
50 / 54	80	23	22	125	49.2	85	54	54	192	49.0	16	45	44	106	46.8
45 / 49	25	5	4	34	45.0	55	22	20	97	44.7	46	51	53	150	43.4
40 / 44	6	1	0	7	40.4	25	7	6	38	39.9	53	45	43	141	38.9
35 / 39	1	0		1	36.4	14	2	1	17	35.2	53	34	35	121	34.2
30 / 34						3		0	3	30.8	43	19	18	79	29.8
25 / 29						1		0	1	26.6	16	7	7	30	25.0
20 / 24											6	2	2	10	20.1
15 / 19											3	1	1	5	15.7
10 / 14											1	0	0	1	11.5
5 / 9											1	0		1	7.2
0 / 4											0			0	3.0
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															
-60 / -56															
-65 / -61															
-70 / -66															
-75 / -71															

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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		
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64															
55 / 59		0	0	0	46.8										
50 / 54	0	1	1	2	44.8										
45 / 49	1	5	5	11	42.4			0	0	42.0					
40 / 44	8	15	14	37	38.7	0	0	0	0	39.2	0		0	0	35.5
35 / 39	24	33	30	87	34.0	3	4	3	10	35.0	1	1	1	3	33.9
30 / 34	39	41	46	126	29.8	6	7	7	20	30.2	4	4	4	12	29.1
25 / 29	40	41	39	120	25.0	11	13	11	35	25.0	7	9	9	25	24.7
20 / 24	33	34	33	100	20.4	19	20	19	58	20.5	13	13	14	40	20.1
15 / 19	26	27	29	82	15.6	23	23	24	70	15.8	16	18	19	53	15.5
10 / 14	26	20	21	67	11.2	29	33	32	94	10.8	20	19	21	60	10.9
5 / 9	16	13	15	44	6.2	32	32	31	95	6.1	20	20	19	59	5.9
0 / 4	13	9	9	31	1.3	25	26	28	79	1.3	25	28	24	77	1.0
-5 / -1	9	4	3	16	-2.9	17	18	19	54	-3.2	18	17	16	51	-3.2
-10 / -6	5	3	2	10	-7.0	20	19	20	59	-7.5	19	16	19	54	-7.7
-15 / -11	3	1	2	6	-11.6	18	16	15	49	-12.1	16	20	19	55	-12.3
-20 / -16	2	1	0	3	-16.6	12	11	11	34	-16.9	17	16	15	48	-17.1
-25 / -21	1	0	0	1	-21.7	9	7	9	25	-21.8	18	20	20	58	-22.0
-30 / -26	0	0		0	-26.8	6	4	4	14	-26.9	15	14	17	46	-27.0
-35 / -31						4	3	3	10	-31.8	13	12	11	36	-31.8
-40 / -36						3	2	2	7	-36.7	9	10	8	27	-36.7
-45 / -41						2	1	1	4	-40.0	7	6	7	20	-41.7
-50 / -46						1	1	1	3	-45.0	5	4	4	13	-47.9
-55 / -51						0	0	0	0		1	1	1	3	-51.0
-60 / -56															
-65 / -61															
-70 / -66															
-75 / -71															

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WMO No. 702220

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		
85 / 89		1	1	2	63.8
80 / 84		6	9	15	62.4
75 / 79		27	33	60	60.2
70 / 74	1	68	74	143	58.2
65 / 69	10	130	134	273	55.9
60 / 64	68	198	200	467	53.7
55 / 59	197	244	239	681	51.1
50 / 54	277	215	214	706	47.4
45 / 49	228	153	150	530	43.0
40 / 44	176	136	135	446	38.1
35 / 39	196	149	147	491	33.6
30 / 34	192	143	155	489	29.2
25 / 29	155	142	143	439	24.5
20 / 24	144	147	145	435	19.9
15 / 19	153	154	155	461	15.3
10 / 14	159	154	155	467	10.7
5 / 9	151	150	156	456	5.8
0 / 4	142	138	133	412	1.0
-5 / -1	104	96	91	290	-3.3
-10 / -6	109	93	91	292	-7.7
-15 / -11	101	85	83	268	-12.3
-20 / -16	77	66	65	208	-17.1
-25 / -21	74	65	64	203	-22.0
-30 / -26	56	44	48	148	-27.0
-35 / -31	47	37	33	117	-31.9
-40 / -36	40	35	29	104	-36.7
-45 / -41	31	23	23	77	-41.7
-50 / -46	20	16	14	50	-47.8
-55 / -51	9	7	5	21	-51.5
-60 / -56	2	3	2	7	
-65 / -61	1	1	0	2	
-70 / -66	0	0		0	
-75 / -71		0		0	

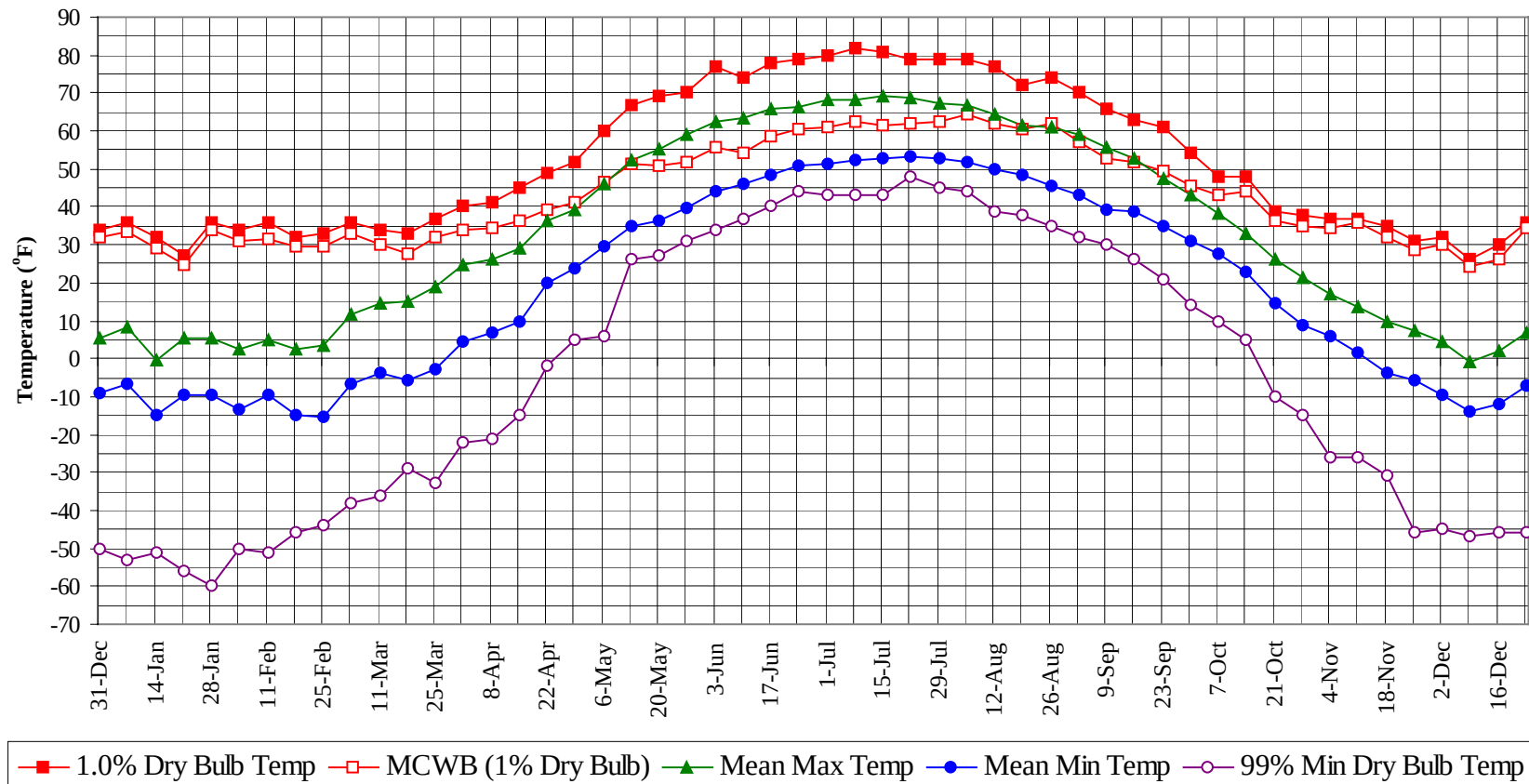
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WMO No. 702220

Annual Summary of Temperatures

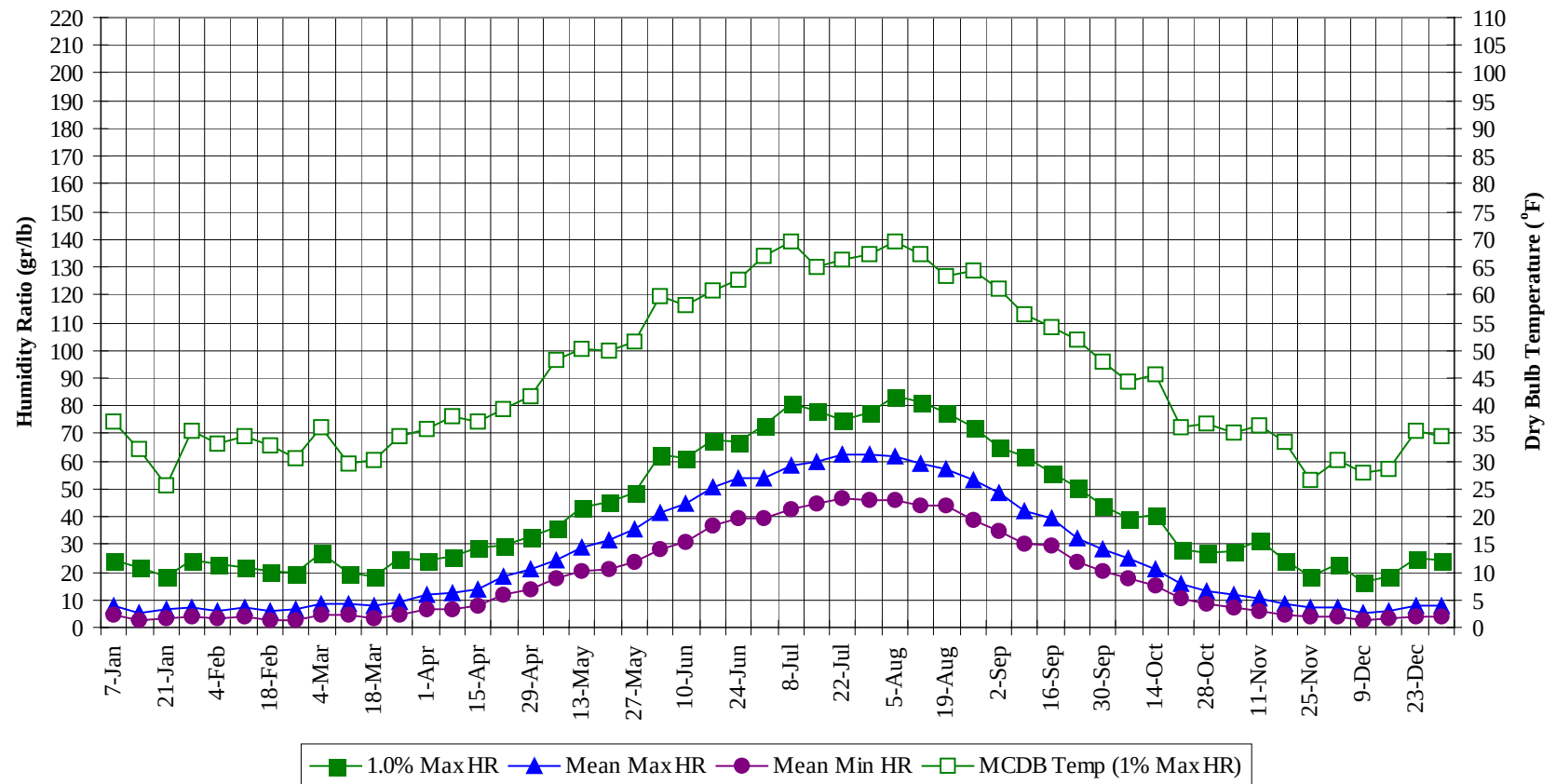


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Long Term Humidity and Dry Bulb Temperature Summary



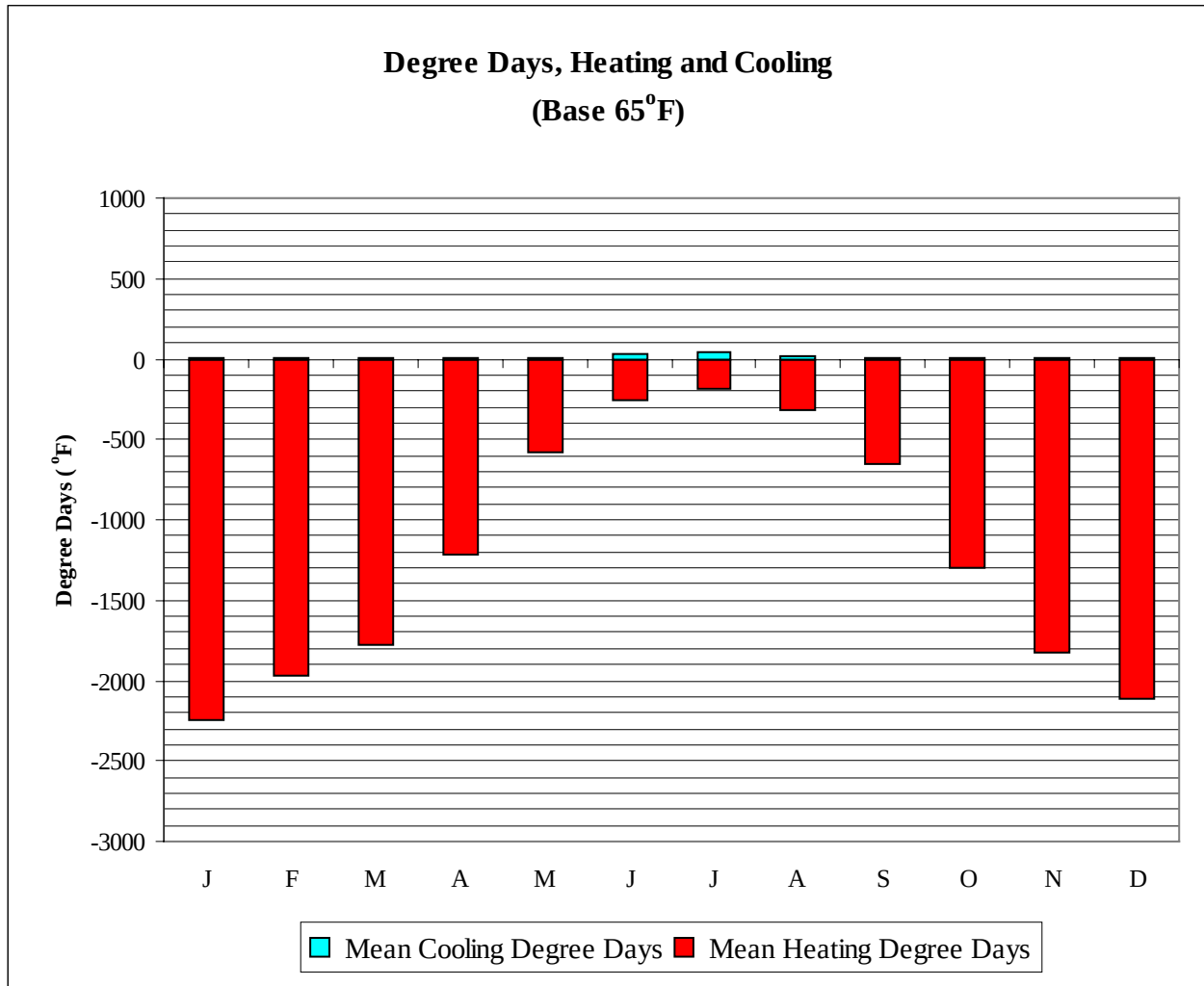
GALENA**AK****WMO No. 702220****Long Term Dry Bulb Temperature and Humidity Summary**

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	36.0	33.7	8.2	-6.6	-53.0	24.5	37.0	8.1	4.3
14-Jan	32.0	29.2	-0.5	-15.1	-51.0	21.7	32.3	5.3	2.6
21-Jan	27.0	24.8	5.5	-9.6	-56.0	18.2	25.5	6.5	3.3
28-Jan	36.0	33.9	5.6	-9.5	-60.0	24.5	35.5	7.4	3.8
4-Feb	34.0	31.0	2.5	-13.4	-50.0	23.1	33.1	6.2	3.0
11-Feb	36.0	31.7	4.9	-9.8	-51.0	21.7	34.5	7.3	4.0
18-Feb	32.0	29.6	2.6	-14.7	-46.0	20.3	32.8	5.8	2.8
25-Feb	33.0	29.7	3.7	-15.3	-44.0	19.6	30.6	6.3	2.9
4-Mar	36.0	33.1	11.8	-6.5	-38.0	26.6	36.1	8.4	4.4
11-Mar	34.0	29.9	14.4	-4.0	-36.0	19.6	29.6	8.6	4.4
18-Mar	33.0	27.7	15.2	-5.9	-29.0	18.2	30.3	7.8	3.4
25-Mar	37.0	32.0	18.8	-2.6	-33.0	25.2	34.6	9.5	4.6
1-Apr	40.0	33.8	24.8	4.4	-22.0	24.5	35.8	11.8	6.3
8-Apr	41.0	34.3	26.3	6.6	-21.0	25.9	38.2	12.5	6.8
15-Apr	45.0	36.5	29.2	9.9	-15.0	28.7	37.2	13.5	7.8
22-Apr	49.0	39.2	36.2	19.7	-2.0	29.4	39.3	18.7	11.9
29-Apr	52.0	41.0	39.2	23.7	5.0	32.9	41.6	21.1	13.9
6-May	60.0	46.7	46.2	29.4	6.0	36.4	48.3	24.6	17.5
13-May	67.0	51.4	52.2	34.7	26.0	43.4	50.2	28.9	20.4
20-May	69.0	50.7	55.4	36.6	27.0	45.5	50.0	31.6	20.9
27-May	70.0	51.7	58.9	39.8	31.0	48.3	51.6	35.2	23.8
3-Jun	77.0	55.9	62.6	44.0	34.0	62.3	59.9	41.4	28.4
10-Jun	74.0	54.3	63.4	46.1	37.0	60.9	58.0	44.4	30.7
17-Jun	78.0	58.5	65.7	48.6	40.0	67.9	60.8	50.6	36.7
24-Jun	79.0	60.7	66.3	50.9	44.0	67.2	62.7	53.9	39.3
1-Jul	80.0	60.9	68.1	51.1	43.0	72.8	67.1	54.0	39.6
8-Jul	82.0	62.6	68.4	52.3	43.0	80.5	69.5	58.7	43.0
15-Jul	81.0	61.6	69.1	53.0	43.0	78.4	65.0	60.1	44.6
22-Jul	79.0	61.9	68.6	53.1	48.0	74.9	66.3	62.1	46.9
29-Jul	79.0	62.7	67.4	52.7	45.0	77.7	67.4	62.1	45.9
5-Aug	79.0	64.6	66.6	51.8	44.0	83.3	69.8	61.9	46.2
12-Aug	77.0	62.1	64.2	49.8	39.0	81.2	67.3	59.3	44.0
19-Aug	72.0	60.3	61.5	48.5	38.0	77.7	63.4	57.1	43.8
26-Aug	74.0	62.0	60.8	45.6	35.0	72.1	64.2	52.9	38.7
2-Sep	70.0	57.0	59.0	42.9	32.0	65.1	61.0	48.4	35.0
9-Sep	66.0	52.8	55.6	39.4	30.0	61.6	56.6	41.8	29.9
16-Sep	63.0	52.1	53.0	38.9	26.0	56.0	54.2	39.5	29.3
23-Sep	61.0	49.4	47.7	34.7	21.0	50.4	52.0	32.4	23.6
30-Sep	54.0	45.6	42.9	31.3	14.0	44.1	48.0	28.4	20.7
7-Oct	48.0	43.2	38.3	27.7	10.0	39.2	44.4	25.2	18.0
14-Oct	48.0	43.9	32.8	22.9	5.0	40.6	45.8	21.2	15.2
21-Oct	39.0	36.1	26.0	14.5	-10.0	28.0	36.0	15.8	10.8
28-Oct	38.0	35.1	21.5	9.0	-15.0	26.6	36.7	13.1	8.4
4-Nov	37.0	34.6	17.2	6.0	-26.0	27.3	35.0	11.5	7.2
11-Nov	37.0	35.8	13.7	1.4	-26.0	31.5	36.5	10.3	6.1
18-Nov	35.0	31.8	9.6	-3.6	-31.0	24.5	33.6	8.7	4.8
25-Nov	31.0	28.5	7.6	-5.6	-46.0	18.2	26.7	7.2	3.8
2-Dec	32.0	30.2	4.3	-9.7	-45.0	23.1	30.1	7.2	3.7
9-Dec	26.0	24.4	-1.0	-14.0	-47.0	16.1	28.0	5.1	2.9
16-Dec	30.0	26.2	2.3	-11.9	-46.0	18.2	28.5	5.9	3.0
23-Dec	36.0	34.6	6.7	-7.1	-46.0	25.2	35.4	7.9	4.1
31-Dec	34.0	31.9	5.6	-9.0	-50.0	24.5	34.5	7.8	4.1

GALENA

AK

WMO No. 702220



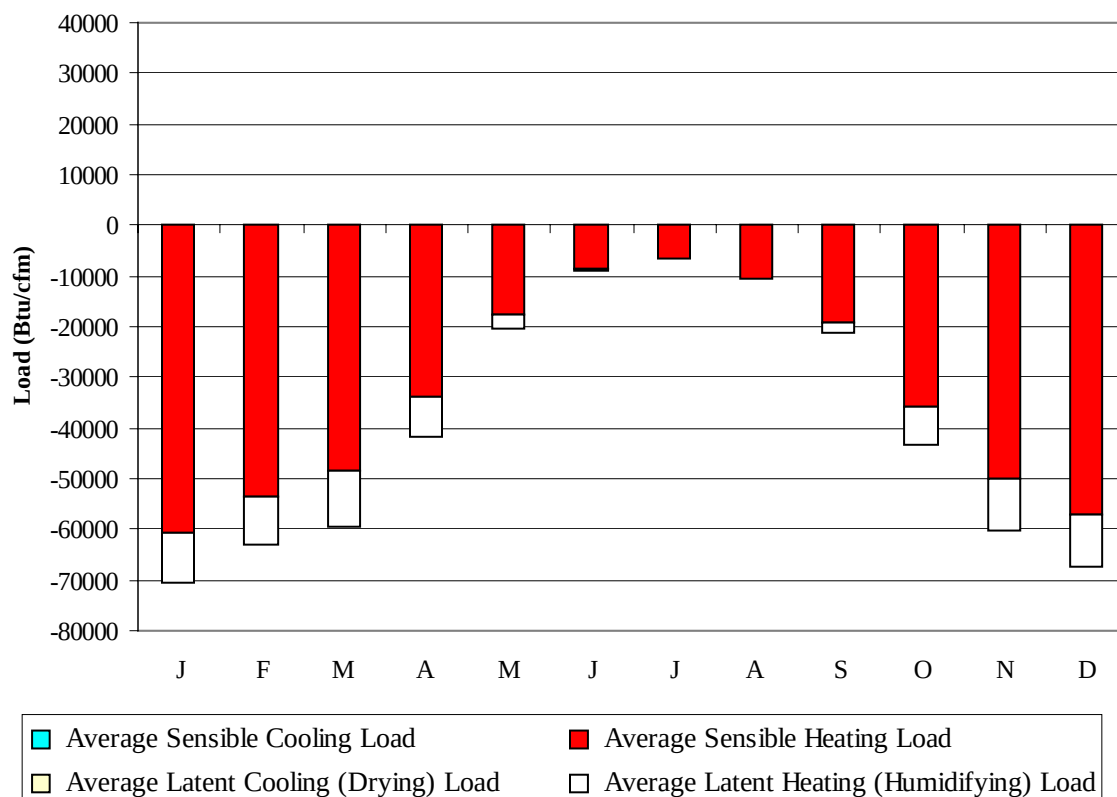
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	2248
FEB	0	1974
MAR	0	1782
APR	0	1211
MAY	4	584
JUN	27	255
JUL	47	182
AUG	14	315
SEP	0	654
OCT	0	1295
NOV	0	1832
DEC	0	2111
ANN	93	14443

GALENA

AK

WMO No. 702220

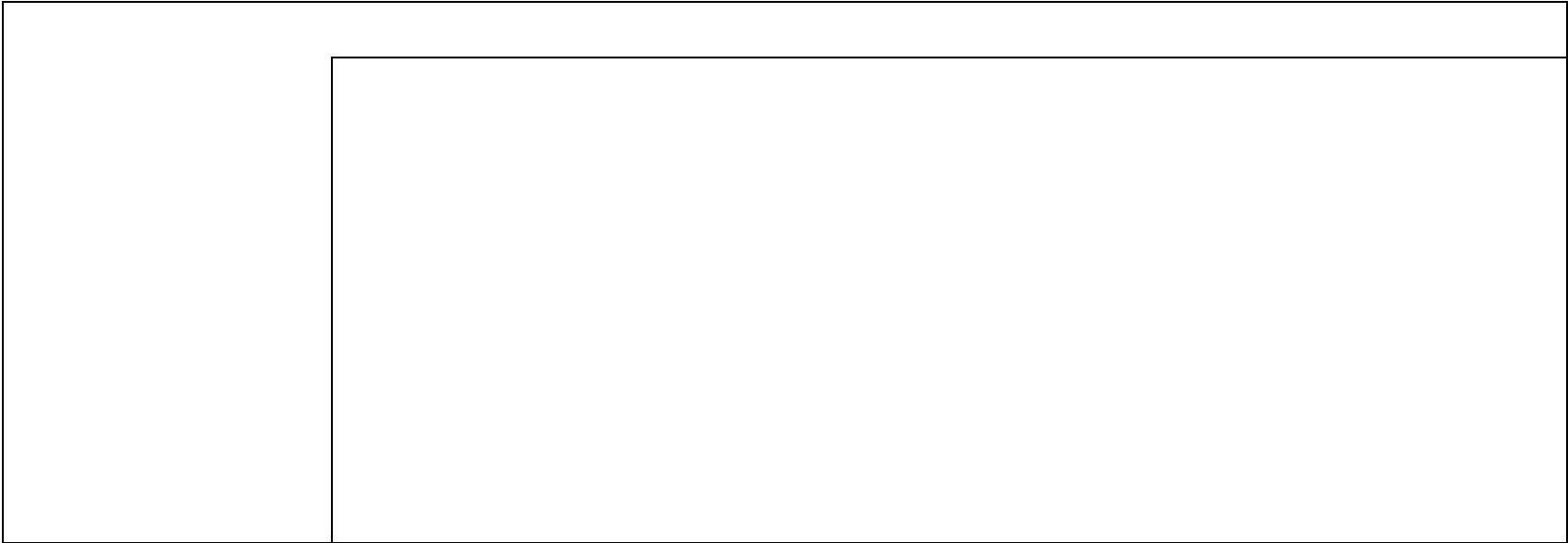
Average Ventilation and Infiltration Loads
(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)



	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	-60670	0	-10045
FEB	0	-53368	0	-9778
MAR	0	-48589	0	-10995
APR	0	-33714	0	-7892
MAY	6	-17460	0	-2862
JUN	58	-8580	0	-295
JUL	132	-6570	12	-40
AUG	24	-10363	15	-214
SEP	0	-19266	0	-1931
OCT	0	-35970	0	-7338
NOV	0	-49831	0	-10457
DEC	0	-57041	0	-10452
ANN	220	-401422	27	-72299

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

No Solar Radiation
Data Available

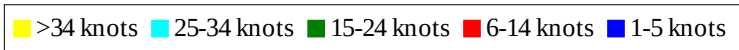
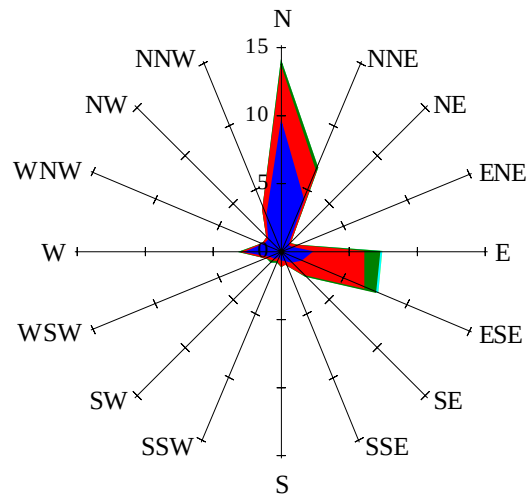


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

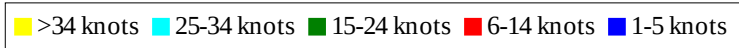
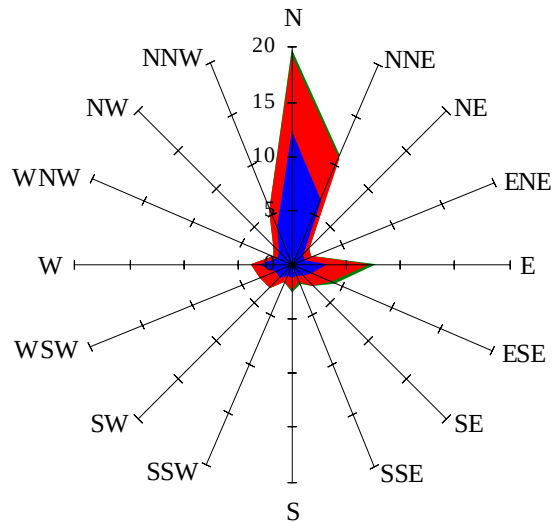
Labels of Percent Frequency on North Axis



Percent Calm = 46.11

Wind Summary - March, April, and May

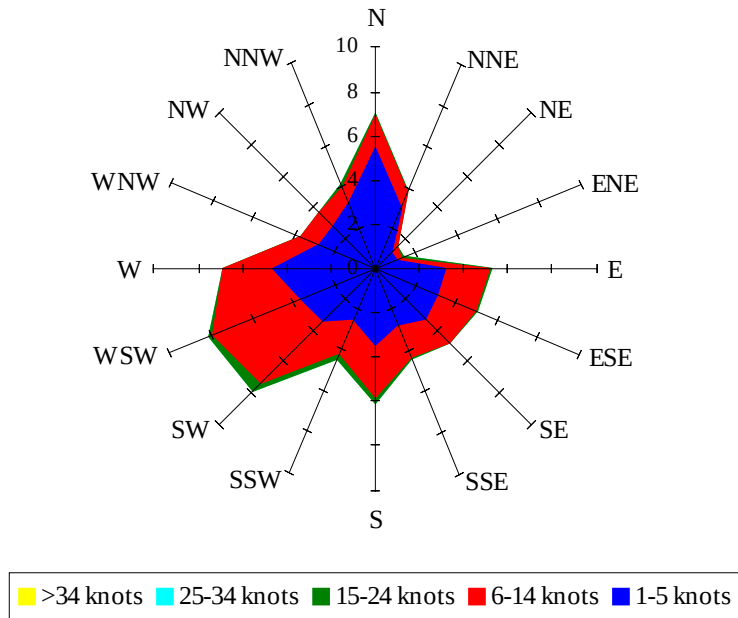
Labels of Percent Frequency on North Axis



Percent Calm = 26.13

Wind Summary - June, July, and August

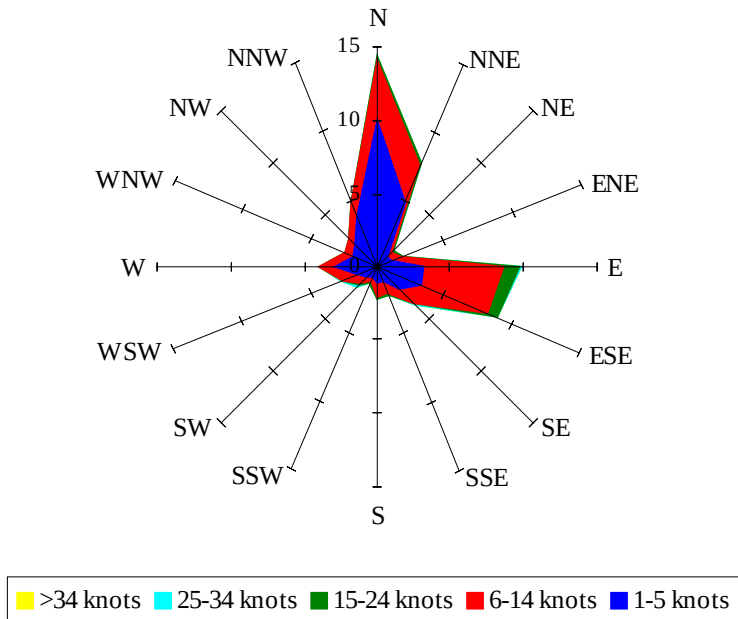
Labels of Percent Frequency on North Axis



Percent Calm = 22.87

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 28.57