

TATALINA AK

Latitude = 62.90 N

Longitude = 155.90 W

Period of Record = 1967 to 1996

WMO No. 702315

Elevation = 965 feet

Average Pressure = 28.73 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	82	62	54	5.0	E
0.4% Occurrence	76	59	52	5.5	E
1.0% Occurrence	72	58	50	5.5	E
2.0% Occurrence	69	56	49	5.2	E
Mean Daily Range	12	-	-	-	-
97.5% Occurrence	-21	-21	1	2.6	E
99.0% Occurrence	-27	-27	1	2.0	ENE
99.6% Occurrence	-33	-33	1	1.6	E
Median of Extreme Lows	-32	-32	1	1.7	E
	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	64	76	70	5.1	E
0.4% Occurrence	61	72	64	4.8	E
1.0% Occurrence	59	69	61	4.6	E
2.0% Occurrence	57	65	58	4.5	SSW
	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	77	68	0.50	5.1	SSW
0.4% Occurrence	71	63	0.46	4.9	SSW
1.0% Occurrence	67	61	0.44	4.1	SW
2.0% Occurrence	62	60	0.41	4.0	SSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		0	11	0	1

Other Site Data

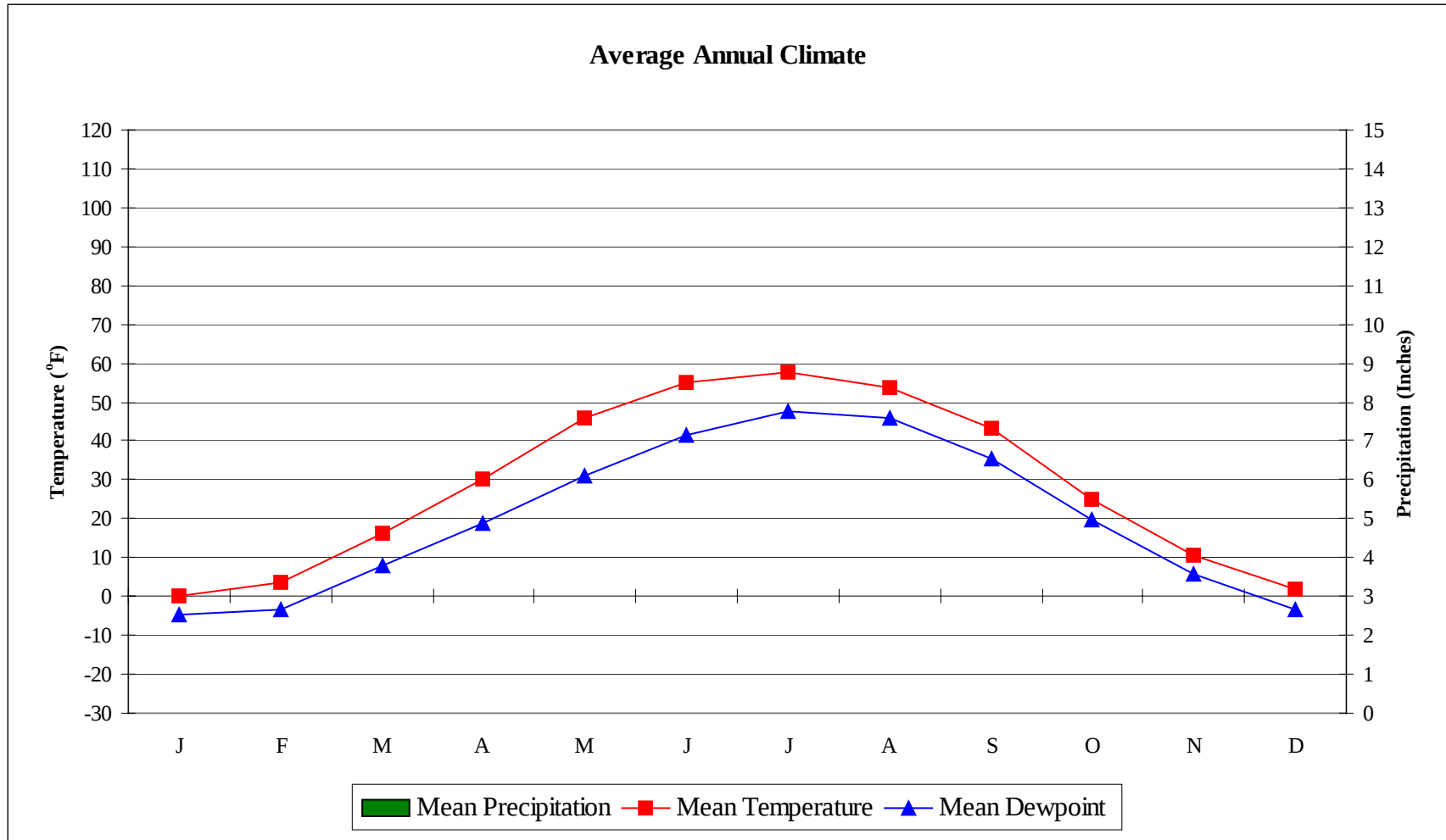
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
4	0.8	100	0.0 + 0.0
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
31.6	N/A	N/A	35

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

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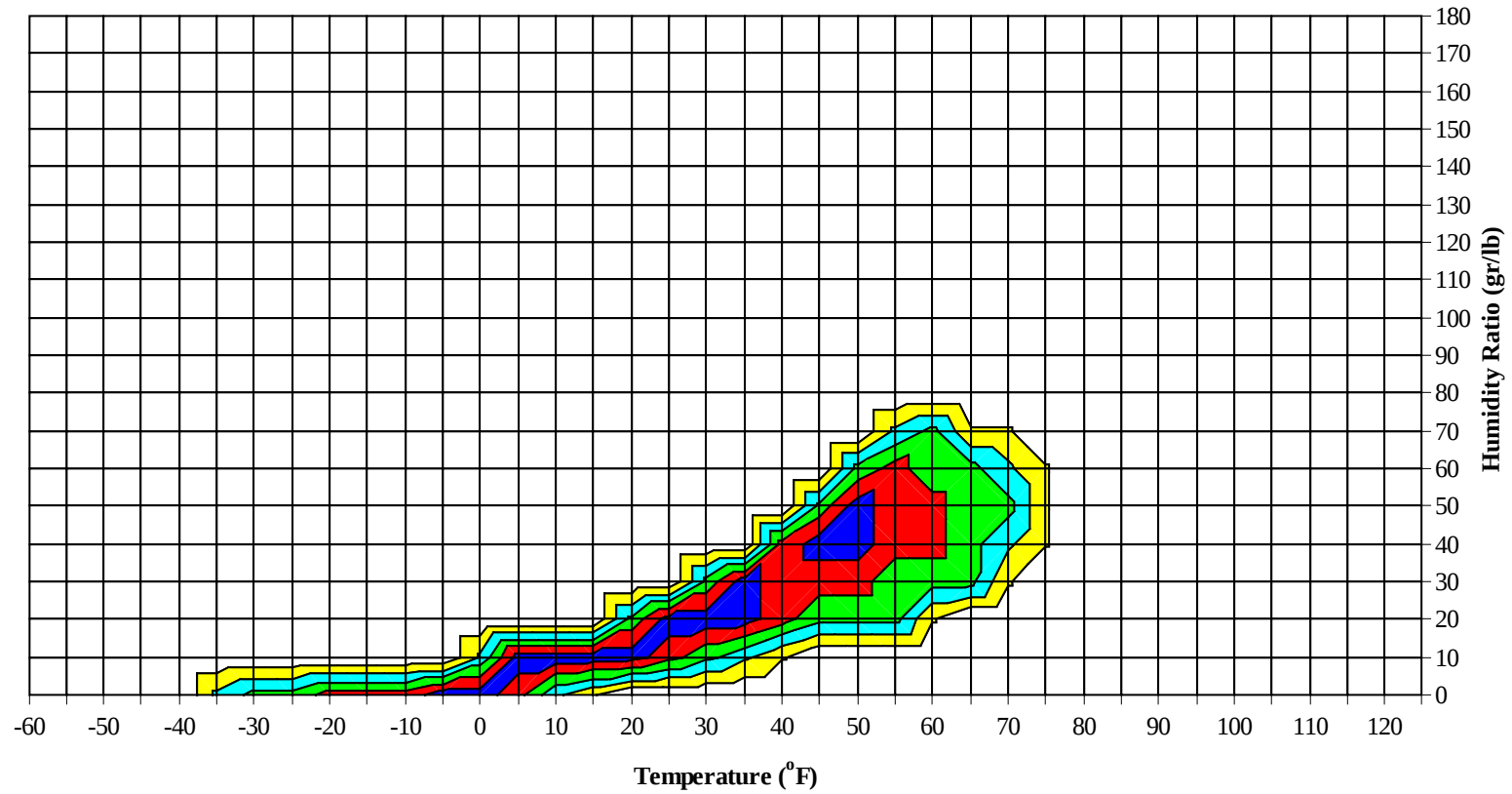
No Precipitation Data Available

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Long Term Psychrometric Summary



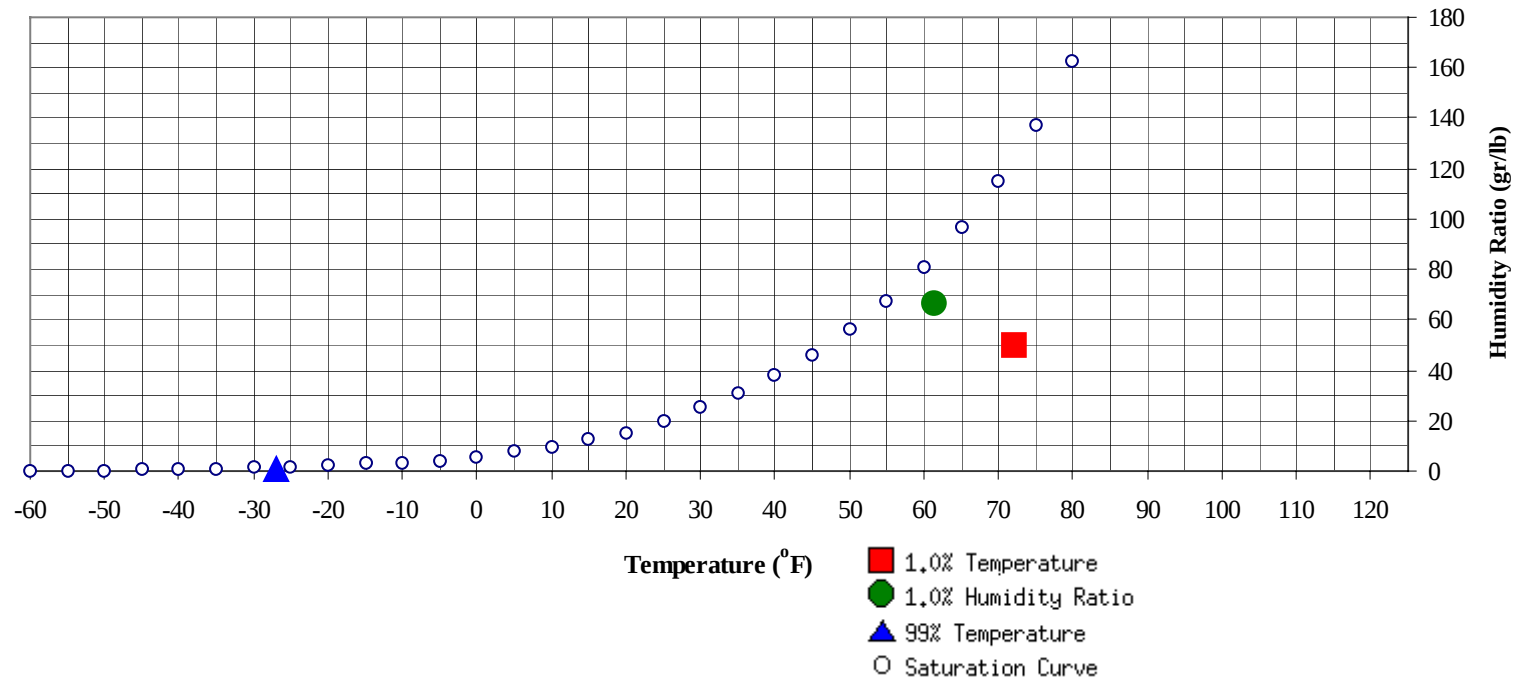
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	-27	0.7	-6.4		66.5	61.3	57.4	55	25.1

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	72	50.1	57.6	25.1

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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							0	0	0	40.7		1	1	2	36.7
40 / 44	0	0	0	0	34.6	0	1	1	2	37.1	0	6	5	10	34.6
35 / 39	3	2	1	6	33.4	3	4	5	12	33.2	3	18	20	41	32.2
30 / 34	7	8	8	23	30.5	9	11	12	32	30.0	23	33	36	92	29.1
25 / 29	12	12	13	37	25.5	13	14	13	40	25.0	34	38	39	111	24.5
20 / 24	16	15	15	46	20.8	14	19	20	53	20.5	30	30	32	92	20.0
15 / 19	19	22	22	63	15.7	20	21	26	67	15.7	29	31	33	94	15.2
10 / 14	28	28	28	84	11.0	18	20	17	55	10.9	32	27	24	82	10.5
5 / 9	23	25	27	75	6.2	18	20	18	57	5.9	28	23	22	73	5.8
0 / 4	24	21	27	71	1.1	16	20	18	55	0.9	21	16	14	51	0.9
-5 / -1	21	20	18	58	-3.0	17	21	20	58	-3.3	15	9	7	31	-3.4
-10 / -6	19	21	19	59	-7.4	26	23	26	75	-7.5	13	8	6	27	-7.5
-15 / -11	16	16	13	45	-12.2	22	19	18	59	-12.2	9	5	5	18	-12.2
-20 / -16	15	16	13	43	-17.1	18	14	16	48	-17.0	6	3	4	12	-17.3
-25 / -21	17	17	14	48	-22.1	17	10	8	36	-21.6	4	1	1	6	-21.7
-30 / -26	11	11	15	37	-26.9	7	4	3	14	-26.8	1	0	0	1	-26.7
-35 / -31	8	8	8	24	-31.6	4	2	1	7	-31.6					
-40 / -36	5	4	3	12	-35.8	1	0	0	1	-36.1					
-45 / -41	3	2	3	7	-40.0										
-50 / -46	1	1	1	3											
-55 / -51	1	0	1	2											
-60 / -56		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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WMO No. 702315

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															
80 / 84												1	1	2	61.5
75 / 79							1	1	2	55.5		5	5	10	58.9
70 / 74							3	4	6	53.4	1	17	19	37	56.3
65 / 69						0	8	7	16	50.8	3	36	31	69	54.0
60 / 64		0	0	0	44.0	1	22	21	44	48.5	13	48	42	104	51.7
55 / 59		2	1	3	43.7	5	39	35	79	45.9	39	48	55	142	49.5
50 / 54		10	10	20	40.8	17	51	52	121	43.3	68	42	50	160	46.9
45 / 49	0	22	21	43	38.1	43	49	53	146	40.7	73	31	29	134	43.9
40 / 44	6	38	39	83	35.3	72	40	41	153	37.5	35	9	6	50	40.6
35 / 39	36	46	48	131	32.6	65	22	20	107	33.9	6	2	1	9	35.7
30 / 34	63	39	48	151	29.1	34	8	10	52	29.8	2	0		2	31.5
25 / 29	45	28	25	98	24.7	8	3	2	13	24.8					
20 / 24	26	20	18	64	19.8	3	1	1	5	19.9					
15 / 19	20	16	13	49	15.2	1	0	0	1	15.8					
10 / 14	17	10	8	36	10.7	0			0	10.0					
5 / 9	12	6	6	24	5.9	0			0	6.0					
0 / 4	10	2	1	13	1.0										
-5 / -1	3	1	0	4	-3.2										
-10 / -6	1	0	0	1	-7.4										
-15 / -11	1	0	0	1	-11.1										
-20 / -16	0			0	-16.3										
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															
-60 / -56															

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WMO No. 702315

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		1	0	1	63.3		0	0	0	65.5					
80 / 84		4	4	7	61.4		1	1	2	62.7					
75 / 79		10	9	19	59.7		4	4	8	61.5					
70 / 74	1	23	22	46	58.1		9	9	18	59.2		0	0	0	55.8
65 / 69	7	38	39	84	56.4	2	23	19	44	56.4		3	3	5	53.3
60 / 64	24	50	57	130	54.4	8	41	39	88	54.3	0	10	9	19	50.3
55 / 59	63	57	58	177	52.3	34	62	60	156	52.3	2	23	20	45	48.5
50 / 54	89	49	48	186	49.4	89	62	66	216	49.2	11	41	39	90	46.2
45 / 49	58	15	13	86	45.7	76	34	36	146	45.2	51	57	61	169	43.5
40 / 44	6	1	0	7	41.7	25	10	12	46	40.1	79	51	48	178	39.8
35 / 39	0			0	38.0	12	3	3	17	35.2	44	27	30	101	34.7
30 / 34						3	0	0	3	30.7	33	18	21	72	29.9
25 / 29						0			0	27.3	13	7	8	28	25.2
20 / 24											5	2	3	9	20.3
15 / 19											2	1	0	3	15.4
10 / 14											1	0		1	11.7
5 / 9											0			0	8.3
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															
-60 / -56															

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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															
50 / 54	0	2	1	3	43.2										
45 / 49	2	6	5	13	41.5				0	0	43.0				
40 / 44	11	15	16	42	38.4	1	1	1	3	38.8	0	0	0	0	35.2
35 / 39	20	28	25	73	34.5	2	4	3	9	34.9	3	3	3	8	34.7
30 / 34	44	48	50	142	30.5	13	15	15	43	30.8	9	7	6	23	30.6
25 / 29	40	43	41	125	25.5	17	17	19	53	25.6	13	15	10	38	25.5
20 / 24	40	41	40	122	20.5	24	24	28	76	20.9	13	13	14	39	20.7
15 / 19	40	30	31	101	16.0	28	32	33	93	16.1	19	20	23	62	16.1
10 / 14	23	18	18	59	11.1	36	38	39	113	11.1	23	21	24	68	11.0
5 / 9	16	9	14	39	6.2	39	37	34	109	6.2	23	26	23	72	6.0
0 / 4	5	5	4	14	1.4	32	28	29	89	1.3	28	32	30	90	1.2
-5 / -1	3	2	1	6	-2.7	17	16	15	49	-3.0	27	21	24	72	-2.9
-10 / -6	3	1	1	5	-6.7	14	13	13	40	-7.2	27	30	29	85	-7.4
-15 / -11	1	0	0	1	-11.4	10	9	8	27	-12.1	25	23	26	75	-12.0
-20 / -16						6	4	3	12	-16.5	17	16	15	48	-17.0
-25 / -21						2	2	1	5	-21.8	12	13	14	38	-21.9
-30 / -26						1	0	0	1	-26.1	6	5	8	19	-26.7
-35 / -31											2	3	1	6	-31.2
-40 / -36											1	1	0	2	
-45 / -41												0	0	0	
-50 / -46															
-55 / -51															
-60 / -56															

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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	63.4
80 / 84		5	6	11	61.6
75 / 79		21	19	40	59.7
70 / 74	1	53	53	107	57.4
65 / 69	12	108	97	217	55.1
60 / 64	47	172	163	382	52.7
55 / 59	143	233	228	604	50.4
50 / 54	277	260	263	800	47.3
45 / 49	307	220	225	751	43.3
40 / 44	242	174	174	590	38.5
35 / 39	203	160	167	530	33.8
30 / 34	244	188	214	647	29.9
25 / 29	196	177	174	547	25.1
20 / 24	171	166	173	510	20.4
15 / 19	178	173	182	533	15.7
10 / 14	176	160	154	490	10.9
5 / 9	156	143	140	440	6.0
0 / 4	132	121	120	374	1.1
-5 / -1	100	87	82	269	-3.1
-10 / -6	98	94	89	281	-7.4
-15 / -11	79	70	68	218	-12.1
-20 / -16	58	50	48	157	-17.0
-25 / -21	50	41	36	128	-21.9
-30 / -26	25	22	24	70	-26.8
-35 / -31	14	12	10	35	-31.5
-40 / -36	6	5	4	16	-35.9
-45 / -41	3	2	3	7	-40.0
-50 / -46	1	1	1	3	
-55 / -51	1	0	1	2	
-60 / -56		0		0	

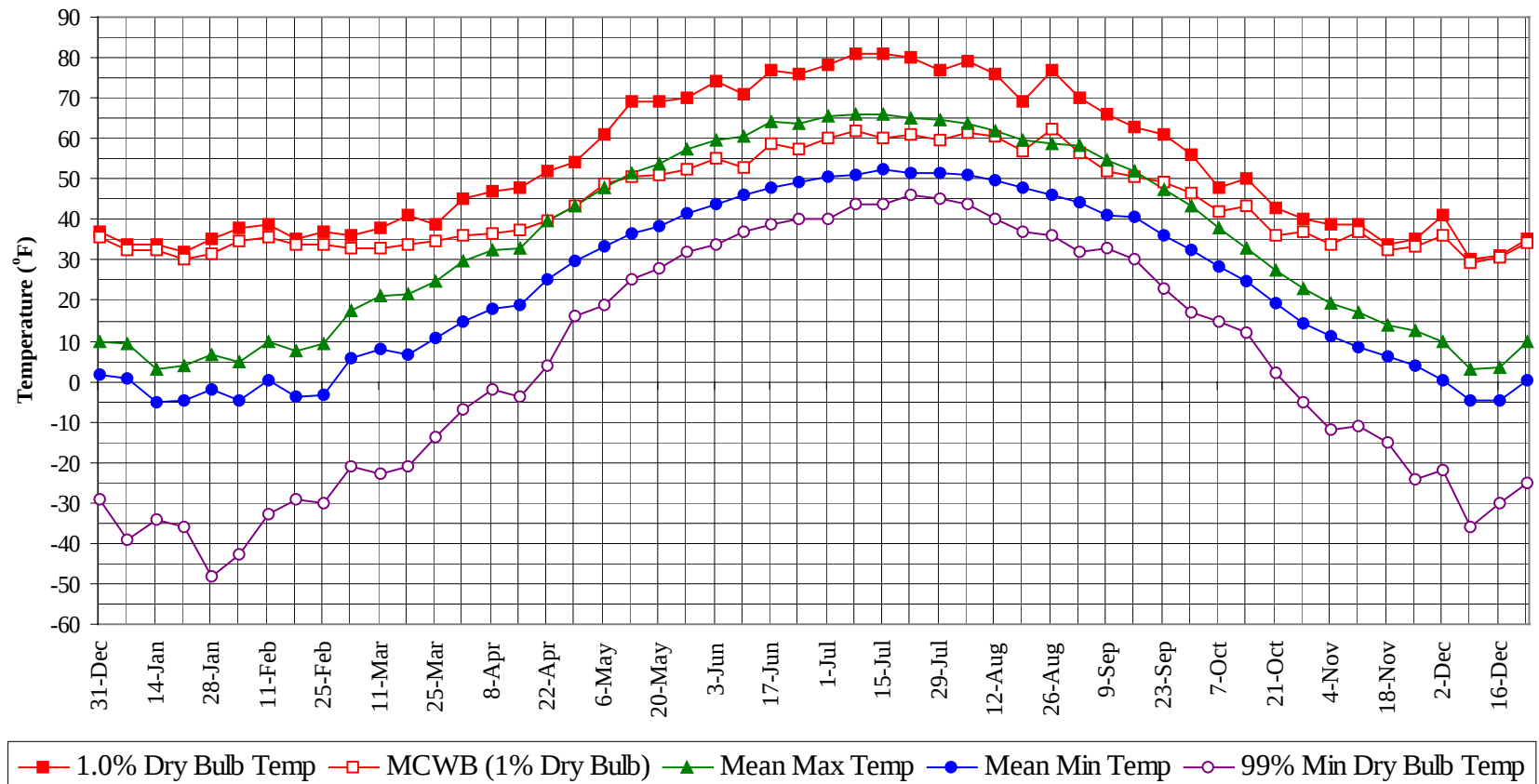
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Annual Summary of Temperatures

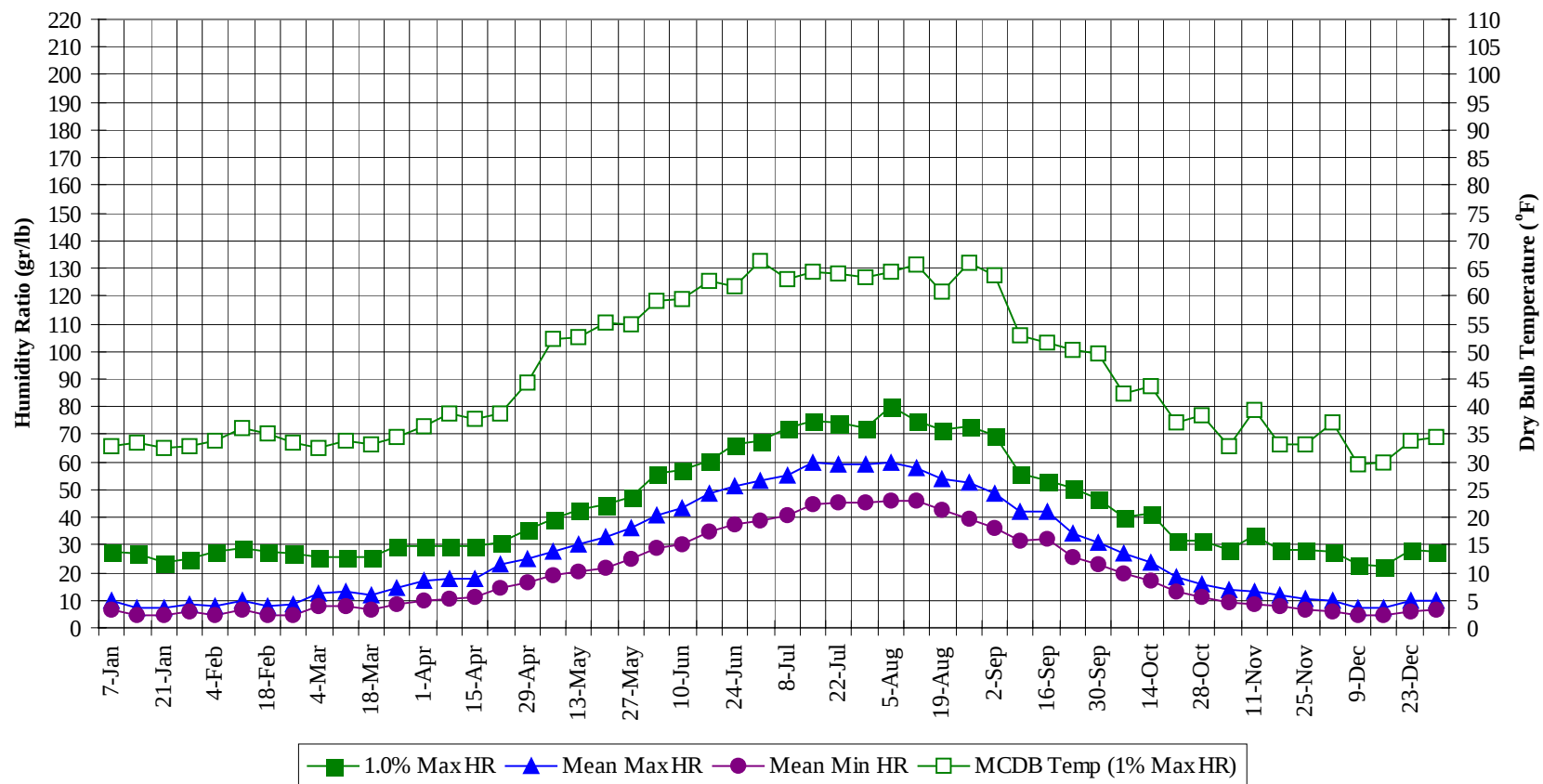


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Long Term Humidity and Dry Bulb Temperature Summary



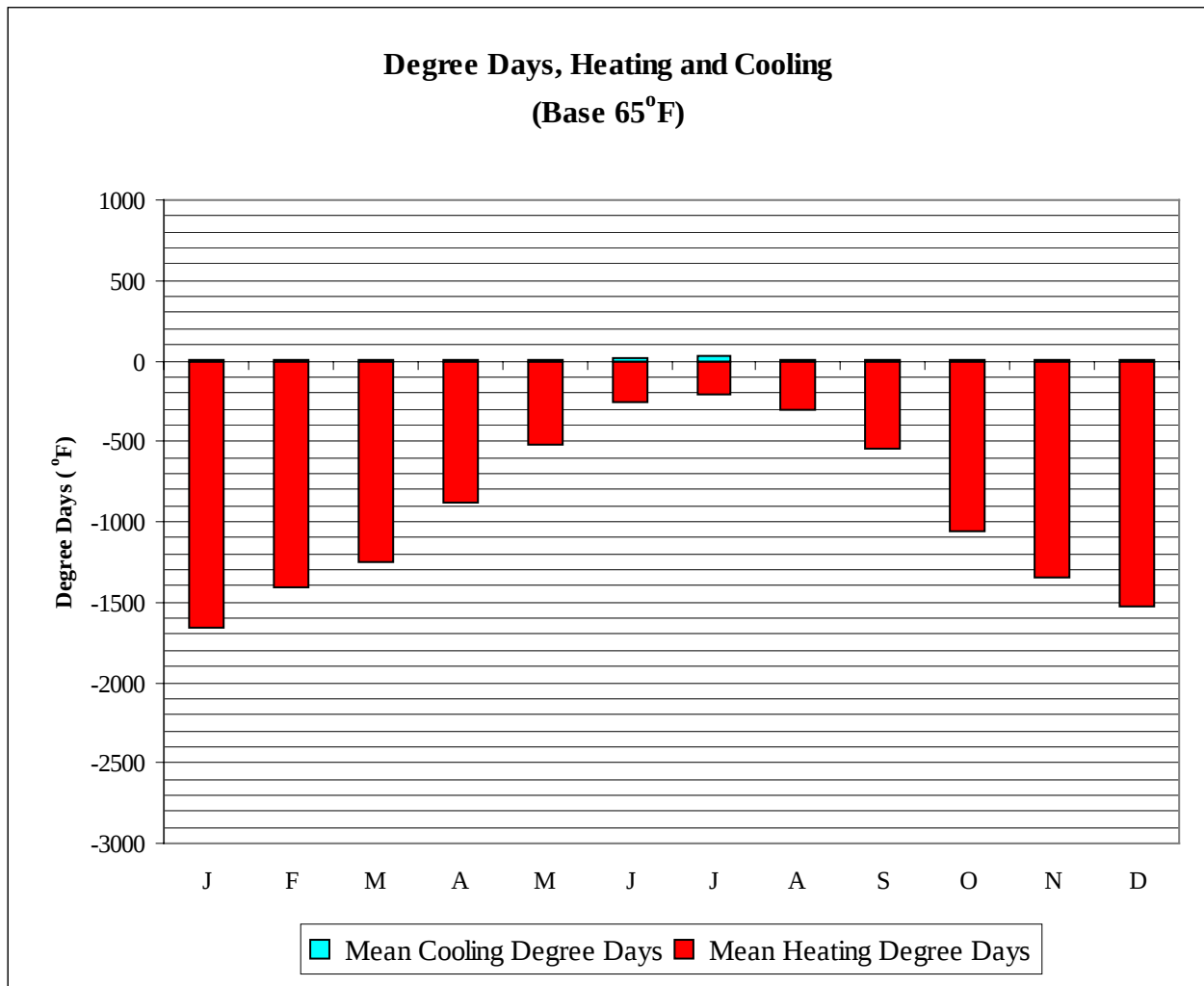
TATALINA**AK****WMO No. 702315****Long Term Dry Bulb Temperature and Humidity Summary**

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	34.0	32.4	9.2	0.6	-39.0	27.3	32.8	9.8	6.3
14-Jan	34.0	32.7	3.1	-5.1	-34.0	26.6	33.6	7.3	4.7
21-Jan	32.0	30.4	4.0	-4.7	-36.0	23.8	32.5	7.4	4.7
28-Jan	35.0	31.5	6.7	-1.8	-48.0	25.2	32.9	8.8	5.8
4-Feb	38.0	34.9	4.8	-4.7	-43.0	27.3	34.0	7.8	4.9
11-Feb	39.0	35.6	9.9	0.5	-33.0	28.7	36.1	9.9	6.5
18-Feb	35.0	33.8	7.6	-3.7	-29.0	27.3	35.3	7.8	4.8
25-Feb	37.0	33.7	9.4	-3.3	-30.0	26.6	33.5	8.2	4.8
4-Mar	36.0	33.0	17.6	5.9	-21.0	25.9	32.6	12.2	7.7
11-Mar	38.0	32.9	20.9	8.1	-23.0	25.9	33.9	13.2	8.0
18-Mar	41.0	33.8	21.5	6.7	-21.0	25.9	33.2	12.1	6.7
25-Mar	39.0	34.5	24.8	10.6	-14.0	29.4	34.4	14.7	8.4
1-Apr	45.0	36.3	29.8	14.9	-7.0	29.4	36.4	16.9	9.7
8-Apr	47.0	36.6	32.4	18.0	-2.0	29.4	38.7	18.0	10.6
15-Apr	48.0	37.5	33.1	18.8	-4.0	29.4	37.6	18.0	11.0
22-Apr	52.0	39.9	39.9	25.3	4.0	30.8	38.8	22.9	14.6
29-Apr	54.0	43.2	43.5	29.8	16.0	35.7	44.4	24.6	16.7
6-May	61.0	48.6	48.0	33.3	19.0	39.2	52.1	27.8	18.9
13-May	69.0	50.4	51.6	36.4	25.0	42.7	52.6	30.5	20.2
20-May	69.0	51.1	53.9	38.3	28.0	44.8	55.3	32.7	21.9
27-May	70.0	52.4	57.2	41.5	32.0	47.6	54.9	36.0	25.0
3-Jun	74.0	55.0	59.6	43.9	34.0	56.0	59.3	40.6	29.0
10-Jun	71.0	52.9	60.4	46.0	37.0	57.4	59.3	43.1	30.1
17-Jun	77.0	58.9	64.0	48.0	39.0	60.2	62.8	48.8	34.6
24-Jun	76.0	57.4	63.9	49.4	40.0	66.5	61.9	51.5	37.7
1-Jul	78.0	60.2	65.7	50.6	40.0	67.9	66.4	53.2	38.5
8-Jul	81.0	61.8	66.1	51.2	44.0	72.1	63.1	55.1	40.8
15-Jul	81.0	60.0	66.1	52.2	44.0	74.9	64.3	59.8	44.7
22-Jul	80.0	61.2	64.9	51.5	46.0	74.2	64.1	59.0	45.1
29-Jul	77.0	59.5	64.5	51.5	45.0	72.1	63.2	59.0	45.3
5-Aug	79.0	61.4	63.7	51.0	44.0	79.8	64.4	59.6	46.3
12-Aug	76.0	60.5	61.9	49.6	40.0	74.9	65.7	58.1	45.9
19-Aug	69.0	57.1	59.5	47.7	37.0	71.4	60.7	54.0	42.9
26-Aug	77.0	62.2	58.8	46.1	36.0	72.8	66.1	52.8	39.7
2-Sep	70.0	56.3	58.5	44.2	32.0	69.3	63.8	48.4	36.3
9-Sep	66.0	51.8	54.5	40.9	33.0	56.0	52.9	42.1	31.6
16-Sep	63.0	50.5	51.8	40.5	30.0	53.2	51.5	41.8	32.2
23-Sep	61.0	49.2	47.2	36.1	23.0	50.4	50.3	34.2	25.6
30-Sep	56.0	46.6	43.3	32.5	17.0	46.9	49.4	30.8	22.8
7-Oct	48.0	42.2	38.1	28.4	15.0	39.9	42.2	26.8	19.7
14-Oct	50.0	43.5	33.0	24.9	12.0	41.3	43.8	23.8	17.2
21-Oct	43.0	36.2	27.6	19.5	2.0	31.5	37.2	18.4	13.4
28-Oct	40.0	36.9	23.0	14.4	-5.0	31.5	38.6	15.7	10.9
4-Nov	39.0	33.8	19.4	11.1	-12.0	28.0	33.0	13.6	9.3
11-Nov	39.0	37.0	17.2	8.5	-11.0	33.6	39.5	12.9	8.4
18-Nov	34.0	32.6	14.1	6.0	-15.0	28.0	33.2	11.5	7.6
25-Nov	35.0	33.5	12.6	3.8	-24.0	28.0	33.2	10.4	6.4
2-Dec	41.0	36.1	10.0	0.5	-22.0	27.3	37.0	9.9	5.8
9-Dec	30.0	29.4	3.0	-4.8	-36.0	23.1	29.6	7.2	4.7
16-Dec	31.0	30.8	3.6	-4.8	-30.0	22.4	29.8	7.0	4.5
23-Dec	35.0	34.2	9.7	0.5	-25.0	28.0	33.9	10.0	6.2
31-Dec	37.0	35.4	9.9	1.4	-29.0	27.3	34.6	10.1	6.6

TATALINA

AK

WMO No. 702315

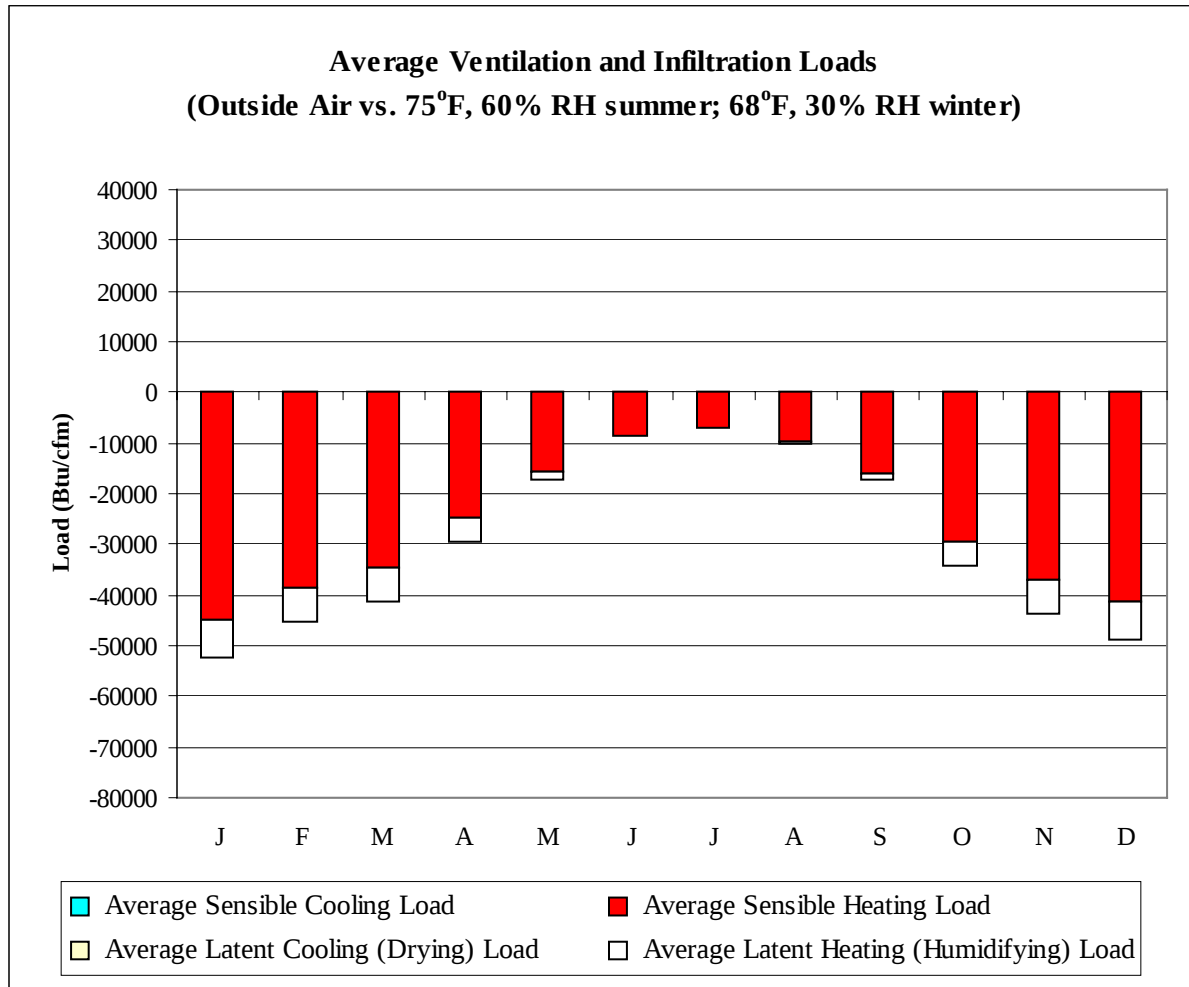


	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1653
FEB	0	1412
MAR	0	1256
APR	0	882
MAY	3	519
JUN	16	261
JUL	26	206
AUG	10	305
SEP	0	549
OCT	0	1059
NOV	0	1350
DEC	0	1527
ANN	54	10979

TATALINA

AK

WMO No. 702315



	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	-44829	0	-7475
FEB	0	-38372	0	-6706
MAR	0	-34554	0	-6773
APR	0	-24806	0	-4691
MAY	2	-15471	0	-1911
JUN	19	-8513	0	-210
JUL	64	-7017	0	-9
AUG	19	-9829	4	-122
SEP	0	-16172	0	-1032
OCT	0	-29506	0	-4786
NOV	0	-36899	0	-6808
DEC	0	-41478	0	-7347
ANN	104	-307446	4	-47870

Average Annual Solar Radiation – Nearest Available Site

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

City: MCGRATH
 State: AK
 WBAN No: 26510
 Lat(N): 62.97
 Long(W): 155.62
 Elev(ft): 338

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.165
 Vert Gap: 0.2

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	72	300	770	1320	1510	1610	1470	1090	700	340	120	32	780
	Std Dev	6	28	70	101	138	140	133	117	96	30	11	4	37
	Minimum	60	250	590	1090	1230	1360	1280	900	540	280	92	25	700
	Maximum	82	360	900	1480	1810	1860	1710	1300	880	390	130	38	870
	Diffuse	48	170	390	690	760	850	820	630	400	230	84	23	430
Clear Day	Global	82	340	900	1680	2260	2550	2380	1810	1090	480	130	38	1150
NORTH	Global	29	100	240	430	580	670	600	410	240	130	48	15	290
	Diffuse	29	100	240	410	480	540	500	380	240	130	48	15	260
Clear Day	Global	29	82	190	390	720	980	840	470	220	110	38	13	340
EAST	Global	80	280	630	970	1070	1080	970	740	510	270	110	38	560
	Diffuse	38	140	320	530	580	630	590	450	300	170	63	18	320
Clear Day	Global	140	420	910	1440	1750	1870	1780	1480	1030	550	200	76	970
SOUTH	Global	380	840	1260	1340	1140	1060	1000	930	840	590	400	210	830
	Diffuse	100	260	450	620	610	640	610	500	370	250	140	53	380
Clear Day	Global	770	1460	2000	2060	1830	1720	1730	1860	1910	1610	920	510	1530
WEST	Global	82	290	640	960	1010	1030	950	760	520	270	110	39	560
	Diffuse	38	140	320	540	580	640	590	460	300	170	63	18	320
Clear Day	Global	140	420	910	1440	1750	1870	1780	1480	1030	550	200	76	970

Average Annual Solar Heat and Illumination – Nearest Available Site

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

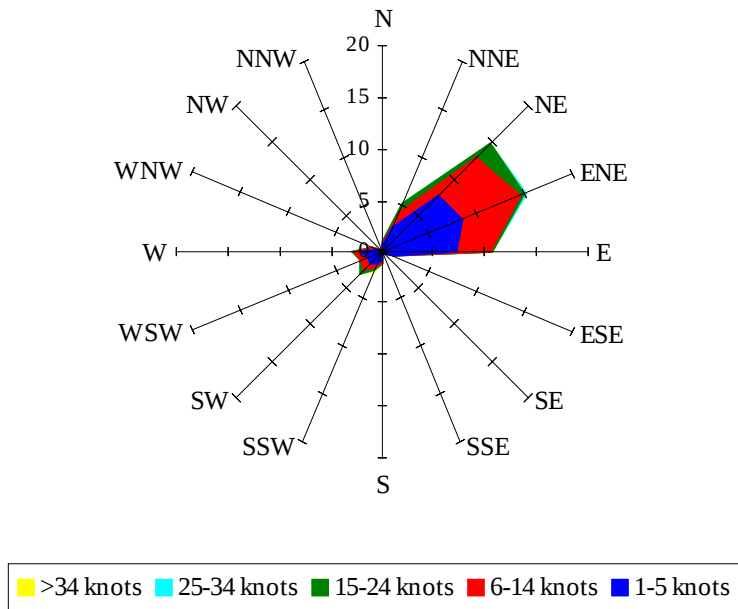
AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	37	160	480	890	1050	1130	1030	760	460	210	65	17	530
NORTH	Unshaded	20	71	160	290	390	460	400	270	170	90	33	10	200
	Shaded	19	68	160	280	380	450	390	270	160	87	32	10	190
EAST	Unshaded	50	190	450	700	770	770	690	530	370	180	73	22	400
	Shaded	49	190	440	690	760	760	680	520	360	180	71	21	390
SOUTH	Unshaded	290	640	930	950	790	730	690	650	610	450	310	170	600
	Shaded	290	640	920	940	780	700	670	640	600	440	300	170	590
WEST	Unshaded	51	200	460	690	730	740	680	540	370	190	72	22	400
	Shaded	50	200	450	680	710	720	670	530	370	180	71	22	390

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	6	27	43	43	28	31	54	71	76	68
	M.Cloudy	5	20	32	31	21	19	34	46	52	47
NORTH	M.Clear	3	8	10	10	8	18	12	14	14	14
	M.Cloudy	2	8	12	12	8	11	12	15	16	15
EAST	M.Clear	26	58	33	10	8	70	78	54	14	14
	M.Cloudy	8	26	21	12	8	27	37	33	16	15
SOUTH	M.Clear	8	53	87	87	55	8	33	64	75	60
	M.Cloudy	4	24	42	41	24	8	20	37	45	37
WEST	M.Clear	3	8	10	32	59	8	12	14	17	57
	M.Cloudy	2	8	12	20	25	8	12	15	17	36
M.Clear	(% hrs)	35	36	36	37	37	21	20	16	11	8

		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	4	25	44	49	40	0	0	4	3	0
	M.Cloudy	3	14	24	29	24	0	0	3	3	0
NORTH	M.Clear	2	7	10	11	10	0	0	2	2	0
	M.Cloudy	1	6	9	11	9	0	0	2	1	0
EAST	M.Clear	20	61	47	11	10	0	0	6	2	0
	M.Cloudy	4	18	19	11	9	0	0	3	1	0
SOUTH	M.Clear	2	37	73	85	66	0	0	23	20	0
	M.Cloudy	1	12	25	34	26	0	0	6	4	0
WEST	M.Clear	2	7	10	15	52	0	0	2	7	0
	M.Cloudy	1	6	9	12	22	0	0	2	2	0
M.Clear	(% hrs)	19	19	19	17	17	38	31	29	31	33

Wind Summary - December, January, and February

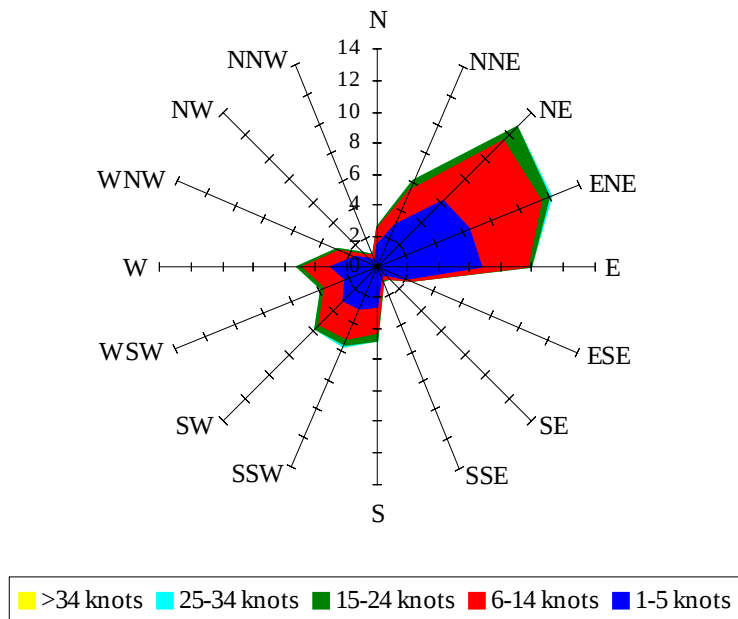
Labels of Percent Frequency on North Axis



Percent Calm = 38.43

Wind Summary - March, April, and May

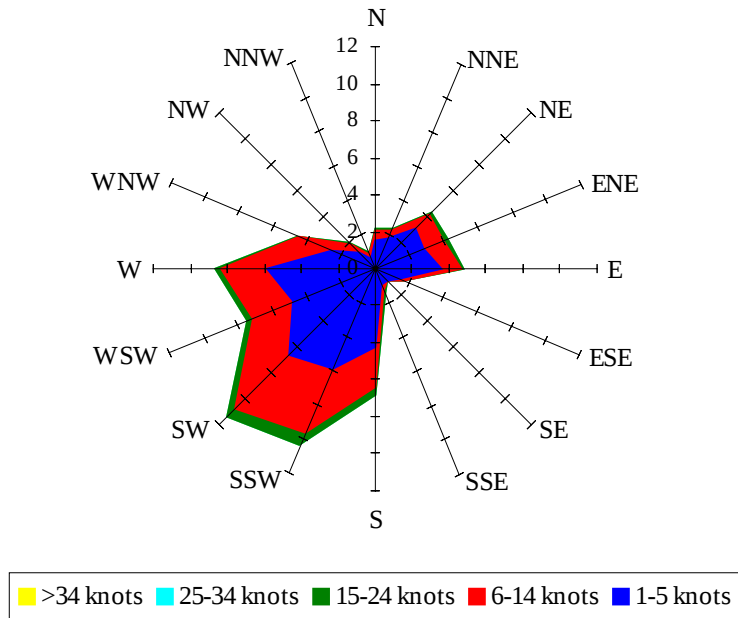
Labels of Percent Frequency on North Axis



Percent Calm = 22.74

Wind Summary - June, July, and August

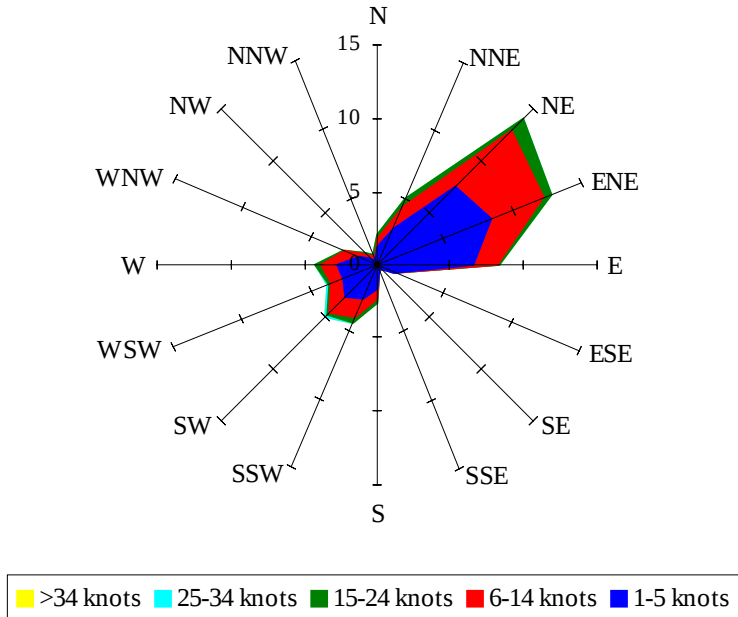
Labels of Percent Frequency on North Axis



Percent Calm = 26.12

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 31.82