

NORTHWAY	AK	
Latitude = 62.97 N		WMO No. 702910
Longitude = 141.90 W		Elevation = 1723 feet
Period of Record = 1973 to 1996		Average Pressure = 27.95 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	84	61	48	5.8	E
0.4% Occurrence	78	59	47	6.6	WNW
1.0% Occurrence	74	57	47	6.7	WNW
2.0% Occurrence	71	56	46	6.8	WNW
Mean Daily Range	20	-	-	-	-
97.5% Occurrence	-37	-37	1	0.7	S
99.0% Occurrence	-47	-47	0	0.6	S
99.6% Occurrence	-52	-52	0	0.3	S
Median of Extreme Lows	-54	-54	0	0.6	ESE
	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	63	77	67	6.0	WNW
0.4% Occurrence	61	75	61	6.3	WNW
1.0% Occurrence	59	71	58	6.4	WNW
2.0% Occurrence	57	68	55	6.3	WNW
	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	83	69	0.52	4.8	W
0.4% Occurrence	69	62	0.44	5.6	WNW
1.0% Occurrence	64	61	0.41	5.3	WNW
2.0% Occurrence	62	60	0.39	5.4	WNW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		0	24	0	0

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
1	1.1	90	0.0 + 0.0
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft²)	Average Annual Freeze-Thaw Cycles (#)
26.6	N/A	N/A	67

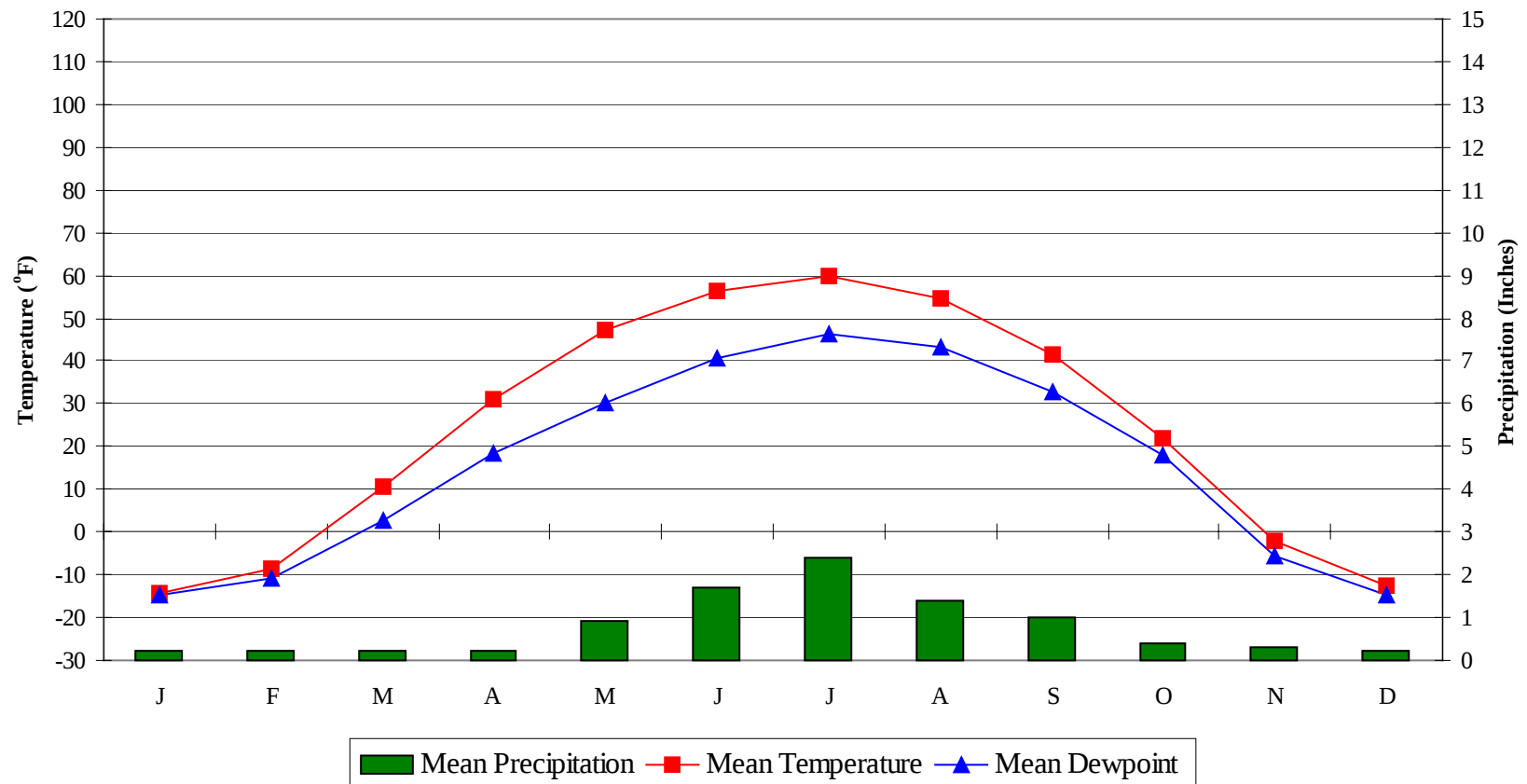
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

NORTHWAY

AK

WMO No. 702910

Average Annual Climate

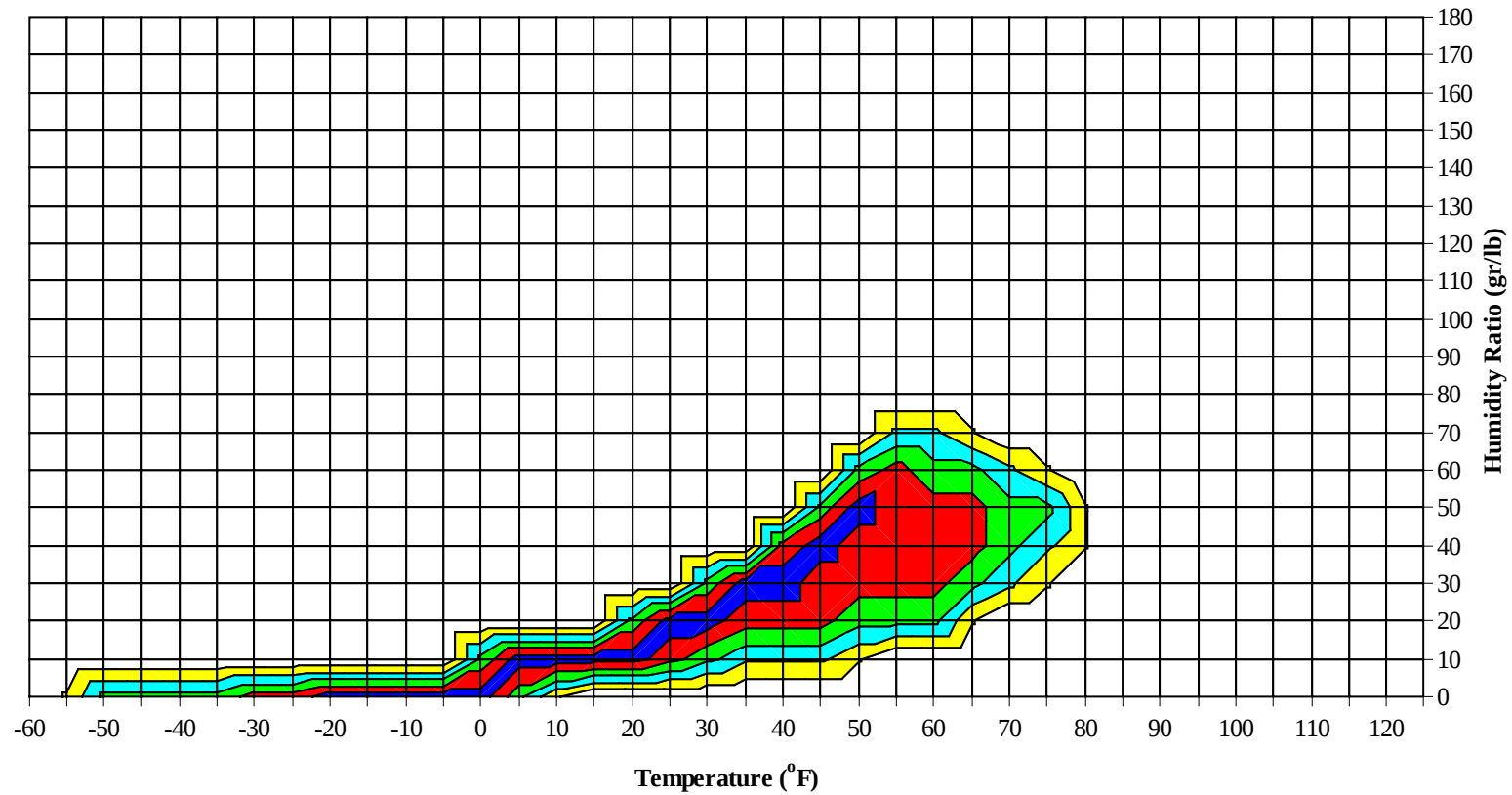


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Long Term Psychrometric Summary



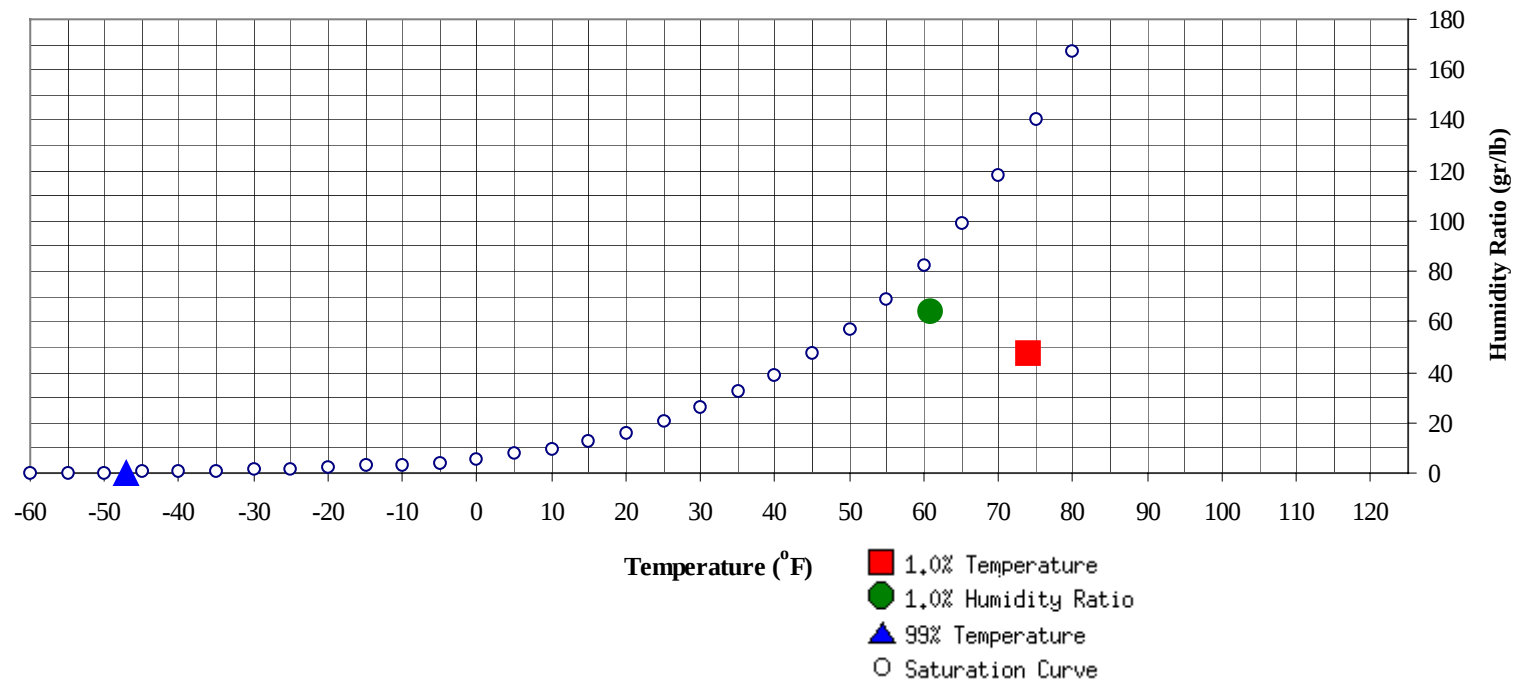
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

NORTHWAY

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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)
	-47	0	-11.3		64.4	60.9	56.1	53.1	24.6

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	74	47.7	57.2	25.2

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WMO No. 702910

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		
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64															
55 / 59															
50 / 54															
45 / 49												2	0	2	36.8
40 / 44											0	10	4	14	33.8
35 / 39						0	0	0	0	32.8	0	17	8	25	31.5
30 / 34	0	0		0	28.7	0	1	0	1	27.8	3	26	15	44	27.9
25 / 29	0	0	1	1	24.8	1	3	2	6	25.3	6	34	30	70	23.9
20 / 24	3	2	2	7	20.9	3	9	6	18	20.6	12	34	32	77	19.7
15 / 19	3	5	3	11	16.0	7	14	14	36	15.9	24	33	33	90	15.4
10 / 14	8	8	9	25	11.0	11	17	13	41	11.0	33	30	32	94	10.7
5 / 9	14	20	18	53	6.4	15	26	21	62	6.2	30	20	28	78	6.1
0 / 4	23	26	27	76	1.4	19	27	26	72	1.2	30	14	21	65	1.3
-5 / -1	22	27	23	72	-2.9	18	19	20	57	-2.9	22	10	13	45	-3.0
-10 / -6	29	32	30	91	-7.4	26	25	25	75	-7.4	26	8	13	47	-7.3
-15 / -11	29	26	26	81	-12.1	26	22	28	76	-12.3	20	5	8	33	-12.1
-20 / -16	23	22	25	70	-17.0	22	18	21	62	-17.0	15	3	5	23	-16.9
-25 / -21	23	20	19	62	-22.0	19	14	14	48	-21.8	11	1	3	14	-21.8
-30 / -26	17	15	15	46	-26.8	13	9	10	31	-26.8	5	1	2	8	-26.9
-35 / -31	16	12	12	39	-31.9	11	6	9	25	-31.8	5	1	2	8	-31.7
-40 / -36	7	10	10	27	-36.5	7	5	8	20	-36.2	2	0	1	3	-36.3
-45 / -41	10	10	9	29	-41.9	11	4	3	18	-41.7	3	0	0	3	-40.8
-50 / -46	8	7	10	25	-47.3	5	2	2	9	-47.0	1			1	
-55 / -51	10	4	5	19	-51.2	4	1	2	7	-51.2					
-60 / -56	2	1	3	6		1	1	1	3						
-65 / -61	1	1	0	2		2	0	1	3						
-70 / -66						2	0	0	2						
-75 / -71						0			0						

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WMO No. 702910

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		
85 / 89								0	0	60.0		0	0	0	59.8
80 / 84							0	0	0	57.8		4	2	6	59.1
75 / 79							1	1	2	55.3	0	11	7	19	56.6
70 / 74							4	2	6	51.9	0	26	15	41	54.6
65 / 69		1	1	2	49.7	0	14	8	23	49.7	2	47	29	78	52.5
60 / 64		3	2	5	46.6	1	37	22	59	47.3	11	58	45	115	50.7
55 / 59	0	7	4	11	43.6	4	56	34	94	44.9	32	48	51	131	48.7
50 / 54	0	21	11	32	40.3	17	57	46	121	42.4	65	29	50	144	46.9
45 / 49	1	42	23	66	37.3	36	44	51	132	40.1	76	14	32	122	44.2
40 / 44	5	53	35	94	34.3	54	22	41	117	37.6	41	3	7	51	40.6
35 / 39	16	42	40	98	31.8	62	9	27	98	34.2	11	0	1	12	36.2
30 / 34	38	27	41	106	28.8	49	3	12	64	30.2	1	0	0	1	31.9
25 / 29	53	17	37	107	24.9	19	1	3	23	25.7					
20 / 24	40	12	19	71	20.4	4		0	4	20.8					
15 / 19	28	7	11	46	15.8	1			1	16.1					
10 / 14	24	4	7	35	10.8										
5 / 9	14	2	4	20	6.1										
0 / 4	8	1	1	10	1.3										
-5 / -1	3	1	2	6	-2.9										
-10 / -6	3	0	1	4	-7.1										
-15 / -11	2	0	1	3	-11.8										
-20 / -16	2		0	2	-16.8										
-25 / -21	1		0	1	-21.5										
-30 / -26	1			1	-26.4										
-35 / -31	0			0	-30.3										
-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 = 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		
85 / 89		0	0	0	60.1		1	1	2	63.5					
80 / 84		5	4	9	59.7		5	3	8	61.9					
75 / 79	0	18	11	29	58.3		9	5	14	59.6		0		0	57.3
70 / 74	0	43	26	69	56.8		22	13	35	57.1		1	1	2	54.5
65 / 69	3	66	43	112	55.0	1	40	23	64	54.7		5	2	7	51.9
60 / 64	19	60	53	132	53.6	5	57	36	97	52.3	0	18	7	25	48.9
55 / 59	60	36	61	158	52.2	20	56	53	129	50.6	1	39	16	56	46.7
50 / 54	97	17	40	154	49.4	61	36	57	154	48.4	3	44	31	78	44.5
45 / 49	55	4	9	68	45.9	80	15	38	132	44.9	17	42	41	101	42.5
40 / 44	11	0	1	12	41.8	52	5	14	71	40.8	43	37	49	129	39.3
35 / 39	1		0	1	37.3	20	2	5	27	36.2	58	27	42	127	35.1
30 / 34	0			0	33.5	7	1	2	10	31.6	65	17	32	114	30.9
25 / 29						1		0	1	27.4	35	6	13	54	26.5
20 / 24						0			0	21.7	9	3	4	16	21.2
15 / 19						0			0	18.5	4	1	2	7	16.6
10 / 14											2	0	0	2	11.1
5 / 9											1		0	1	6.5
0 / 4											1		0	1	1.9
-5 / -1											0		0	0	-2.5
-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 = 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		
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69		0		0	47.0										
60 / 64		0		0	45.5										
55 / 59		0	0	0	43.1										
50 / 54		2	0	2	41.1										
45 / 49	0	6	2	8	39.1										
40 / 44	0	15	5	20	36.7		0		0	34.0					
35 / 39	7	27	18	53	33.9		0	0	0	35.0		0	0	0	33.3
30 / 34	32	39	35	106	30.3	0	1	1	2	30.2	0	0	1	1	30.7
25 / 29	40	48	48	136	25.7	1	2	2	5	25.9	0	0	0	0	26.5
20 / 24	51	39	48	138	21.3	6	9	8	23	20.6	1	2	1	4	20.7
15 / 19	42	32	36	110	16.6	16	21	17	53	16.3	4	3	3	10	16.1
10 / 14	31	19	22	71	11.6	23	31	27	81	11.2	7	10	9	26	11.1
5 / 9	19	9	13	41	6.7	33	36	33	103	6.4	16	20	18	54	6.4
0 / 4	12	5	8	25	1.6	34	33	30	98	1.5	26	28	24	77	1.3
-5 / -1	5	3	4	12	-2.8	23	24	25	71	-2.9	24	28	22	73	-3.0
-10 / -6	4	2	3	9	-7.7	28	27	26	80	-7.3	32	32	36	100	-7.3
-15 / -11	2	1	3	6	-11.8	22	20	23	64	-12.1	29	33	33	95	-12.1
-20 / -16	1	1	1	3	-17.0	18	12	17	46	-16.9	29	27	27	82	-17.0
-25 / -21	2	0	1	3	-22.2	14	10	11	34	-21.9	26	20	24	69	-21.9
-30 / -26	0	0	0	0	-26.5	7	8	9	24	-26.9	17	16	16	49	-26.8
-35 / -31	0	0	0	0	-32.0	7	4	6	17	-31.6	11	10	10	31	-31.8
-40 / -36	0		0	0	-35.0	3	2	5	10	-36.0	8	6	8	22	-36.4
-45 / -41						2	1	2	5	-40.5	6	7	5	18	-41.1
-50 / -46						2	0	0	2		7	5	8	20	-47.3
-55 / -51						1	0	0	1		4	3	2	9	-50.5
-60 / -56						0			0		1	0	1	2	
-65 / -61												0		0	
-70 / -66															
-75 / -71															

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WMO No. 702910

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	Annual Totals				M C W B (°F)
	Hour Group (LST)			Total Obs	
	01 To 08	09 To 16	17 To 00		
85 / 89		1	1	2	62.0
80 / 84		14	8	22	60.2
75 / 79	0	38	23	61	58.0
70 / 74	1	95	56	152	56.0
65 / 69	6	172	104	282	53.7
60 / 64	37	231	161	429	51.3
55 / 59	118	241	217	576	49.1
50 / 54	245	207	233	685	46.4
45 / 49	264	172	193	629	42.5
40 / 44	208	147	157	512	38.1
35 / 39	179	126	142	448	33.9
30 / 34	199	117	141	457	29.9
25 / 29	160	114	139	413	25.3
20 / 24	132	111	123	366	20.7
15 / 19	131	117	121	369	16.0
10 / 14	139	120	120	380	11.1
5 / 9	143	132	137	413	6.3
0 / 4	152	134	138	424	1.4
-5 / -1	114	109	109	332	-2.9
-10 / -6	144	123	132	400	-7.4
-15 / -11	126	105	120	351	-12.1
-20 / -16	107	83	96	286	-17.0
-25 / -21	93	65	71	229	-21.9
-30 / -26	60	48	53	160	-26.8
-35 / -31	47	32	39	119	-31.8
-40 / -36	28	22	30	80	-36.3
-45 / -41	32	20	19	71	-41.4
-50 / -46	24	14	20	57	-47.3
-55 / -51	20	8	10	37	-51.1
-60 / -56	5	2	5	12	
-65 / -61	3	1	1	5	
-70 / -66	2	0	0	2	
-75 / -71	0			0	

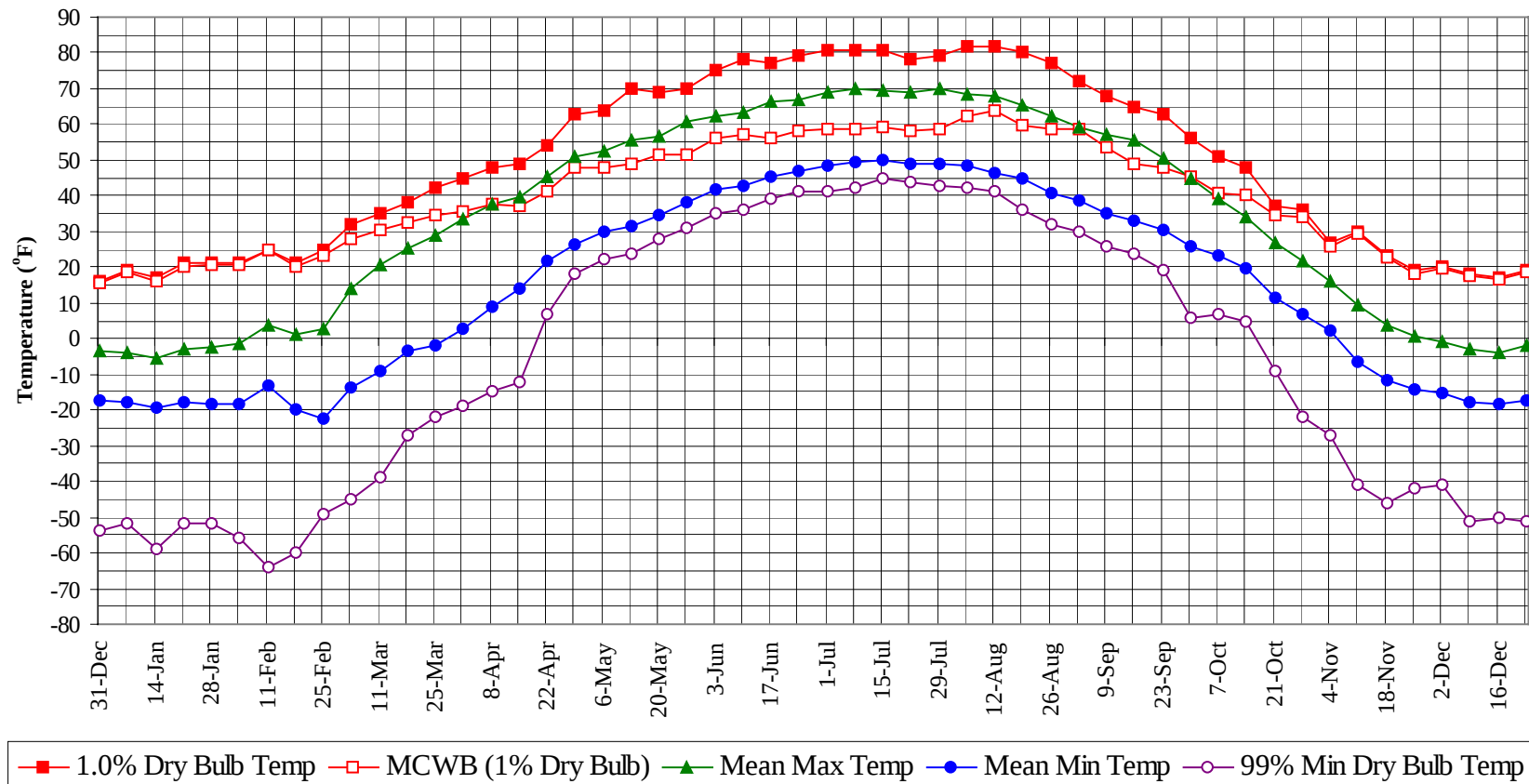
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NORTHWAY

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WMO No. 702910

Annual Summary of Temperatures

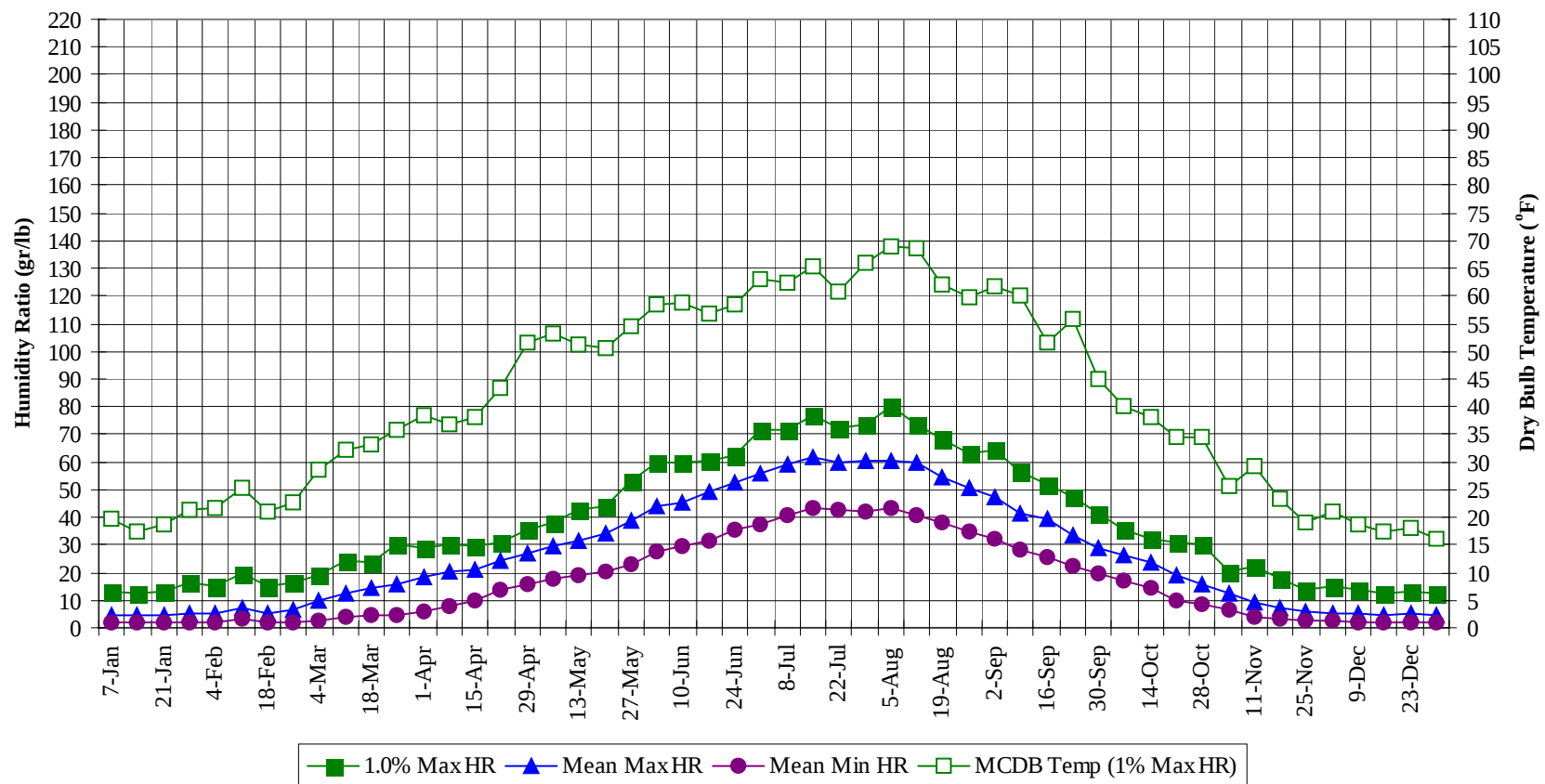


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Long Term Humidity and Dry Bulb Temperature Summary



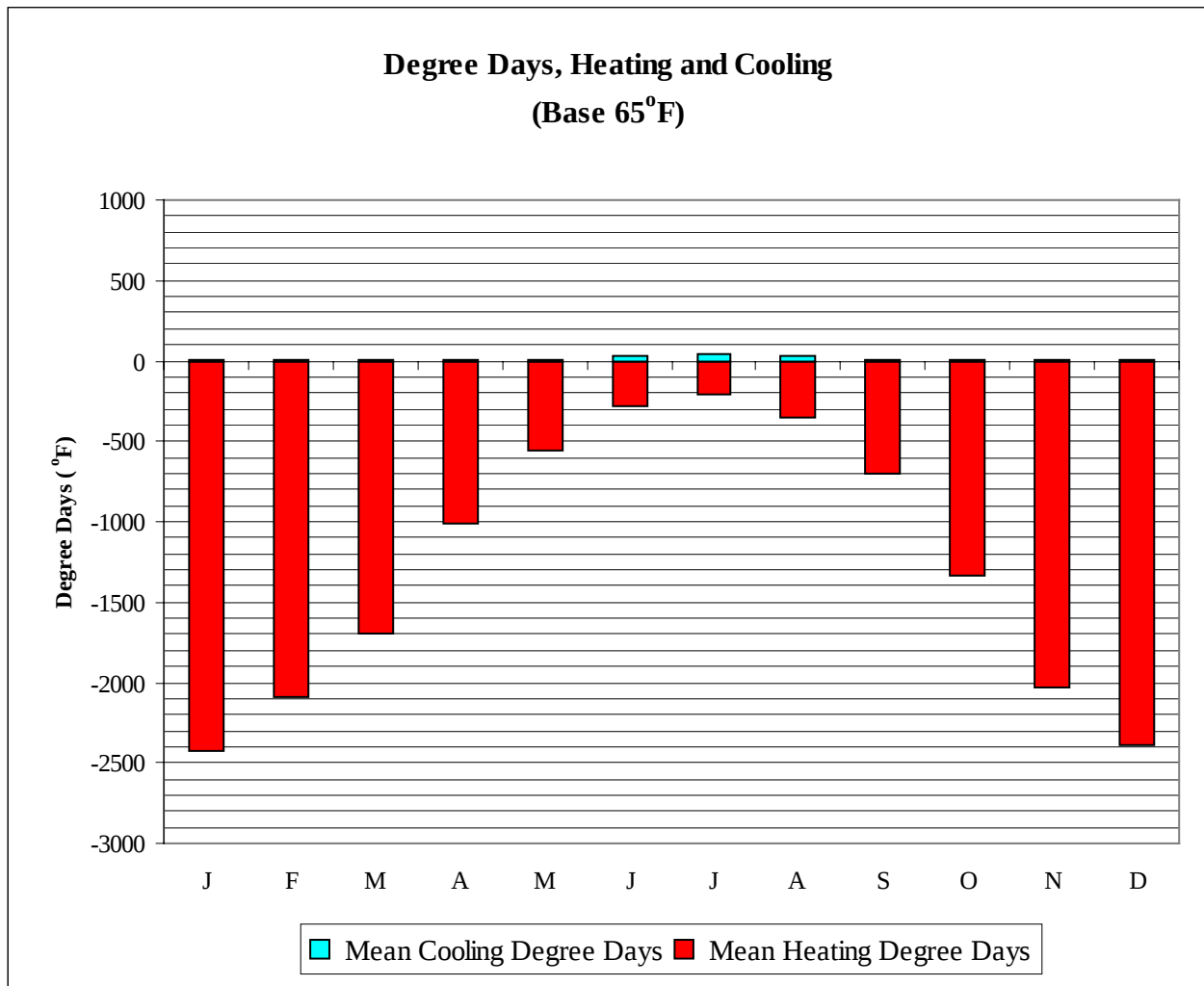
NORTHWAY**AK****WMO No. 702910****Long Term Dry Bulb Temperature and Humidity Summary**

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	19.0	18.6	-4.2	-17.9	-52.0	13.3	19.8	4.7	2.2
14-Jan	17.0	16.0	-5.4	-19.4	-59.0	12.6	17.4	4.6	2.1
21-Jan	21.0	20.2	-3.0	-17.9	-52.0	13.3	18.7	4.9	2.2
28-Jan	21.0	20.8	-2.3	-18.4	-52.0	16.1	21.2	5.3	2.2
4-Feb	21.0	20.4	-1.3	-18.3	-56.0	15.4	21.6	5.5	2.2
11-Feb	25.0	25.0	3.6	-13.0	-64.0	19.6	25.4	7.1	3.2
18-Feb	21.0	20.2	0.9	-19.8	-60.0	15.4	20.9	5.5	2.0
25-Feb	25.0	23.0	2.9	-22.7	-49.0	16.1	22.6	6.4	1.8
4-Mar	32.0	27.9	14.2	-13.8	-45.0	18.9	28.7	9.9	2.9
11-Mar	35.0	30.4	20.5	-8.9	-39.0	24.5	32.3	12.4	3.6
18-Mar	38.0	32.3	25.2	-3.7	-27.0	23.8	33.2	14.4	4.3
25-Mar	42.0	34.7	29.1	-2.1	-22.0	30.1	35.8	16.0	4.8
1-Apr	45.0	35.4	33.7	2.6	-19.0	28.7	38.3	18.4	6.0
8-Apr	48.0	37.4	37.4	8.9	-15.0	30.1	36.8	20.2	8.2
15-Apr	49.0	37.1	39.5	13.8	-12.0	29.4	38.1	21.1	10.0
22-Apr	54.0	41.2	45.4	21.5	7.0	30.8	43.2	24.3	13.6
29-Apr	63.0	48.1	50.9	26.5	18.0	35.7	51.6	26.7	15.9
6-May	64.0	47.7	52.5	29.8	22.0	37.8	53.1	29.6	17.5
13-May	70.0	49.0	55.4	31.7	24.0	42.7	51.2	31.8	18.8
20-May	69.0	51.6	56.8	34.5	28.0	44.1	50.7	33.8	20.4
27-May	70.0	51.3	60.5	38.4	31.0	53.2	54.7	38.4	23.3
3-Jun	75.0	56.2	62.4	41.8	35.0	59.5	58.6	44.1	27.9
10-Jun	78.0	57.3	63.5	42.7	36.0	59.5	58.9	45.5	29.5
17-Jun	77.0	56.1	66.4	45.4	39.0	60.2	56.8	49.5	31.4
24-Jun	79.0	58.0	66.7	47.0	41.0	62.3	58.3	52.5	35.3
1-Jul	81.0	58.6	69.0	48.5	41.0	71.4	63.2	56.0	37.1
8-Jul	81.0	58.9	69.9	49.5	42.0	71.4	62.3	58.9	40.8
15-Jul	81.0	59.1	69.4	50.2	45.0	77.0	65.3	61.6	43.5
22-Jul	78.0	58.2	69.2	49.1	44.0	72.1	60.6	60.0	42.8
29-Jul	79.0	58.7	69.9	48.7	43.0	73.5	65.9	60.4	41.9
5-Aug	82.0	62.2	68.3	48.5	42.0	79.8	69.0	60.7	43.5
12-Aug	82.0	63.7	67.9	46.4	41.0	73.5	68.6	59.7	40.7
19-Aug	80.0	59.6	65.3	44.7	36.0	68.6	62.0	54.7	38.1
26-Aug	77.0	58.6	62.4	40.9	32.0	63.0	59.8	50.5	34.6
2-Sep	72.0	58.4	59.0	38.7	30.0	64.4	61.7	47.4	32.1
9-Sep	68.0	53.5	57.0	34.9	26.0	56.7	60.1	41.6	28.0
16-Sep	65.0	48.8	55.7	33.2	24.0	51.8	51.5	39.4	25.9
23-Sep	63.0	47.8	50.5	30.5	19.0	47.6	55.7	33.3	22.6
30-Sep	56.0	45.3	44.6	25.9	6.0	41.3	45.0	29.2	19.4
7-Oct	51.0	40.8	39.4	23.1	7.0	35.7	39.9	26.3	16.9
14-Oct	48.0	40.2	34.0	19.7	5.0	32.2	38.0	23.5	14.5
21-Oct	37.0	34.7	27.1	11.2	-9.0	30.8	34.4	18.8	10.1
28-Oct	36.0	34.0	21.9	6.7	-22.0	30.1	34.5	16.0	8.5
4-Nov	27.0	25.7	16.2	2.0	-27.0	20.3	25.7	12.4	6.5
11-Nov	30.0	29.3	9.5	-6.5	-41.0	22.4	29.1	9.4	4.3
18-Nov	23.0	22.6	3.8	-11.7	-46.0	17.5	23.5	7.3	3.5
25-Nov	19.0	18.4	0.8	-14.1	-42.0	14.0	19.2	5.9	2.6
2-Dec	20.0	19.8	-1.0	-15.1	-41.0	15.4	21.1	5.5	2.4
9-Dec	18.0	17.5	-2.8	-18.0	-51.0	14.0	18.9	4.9	2.1
16-Dec	17.0	16.5	-4.0	-18.2	-50.0	12.6	17.3	4.7	2.1
23-Dec	19.0	18.6	-1.8	-17.1	-51.0	13.3	17.9	5.2	2.2
31-Dec	16.0	15.3	-3.5	-17.5	-54.0	12.6	16.1	4.8	2.1

NORTHWAY

AK

WMO No. 702910



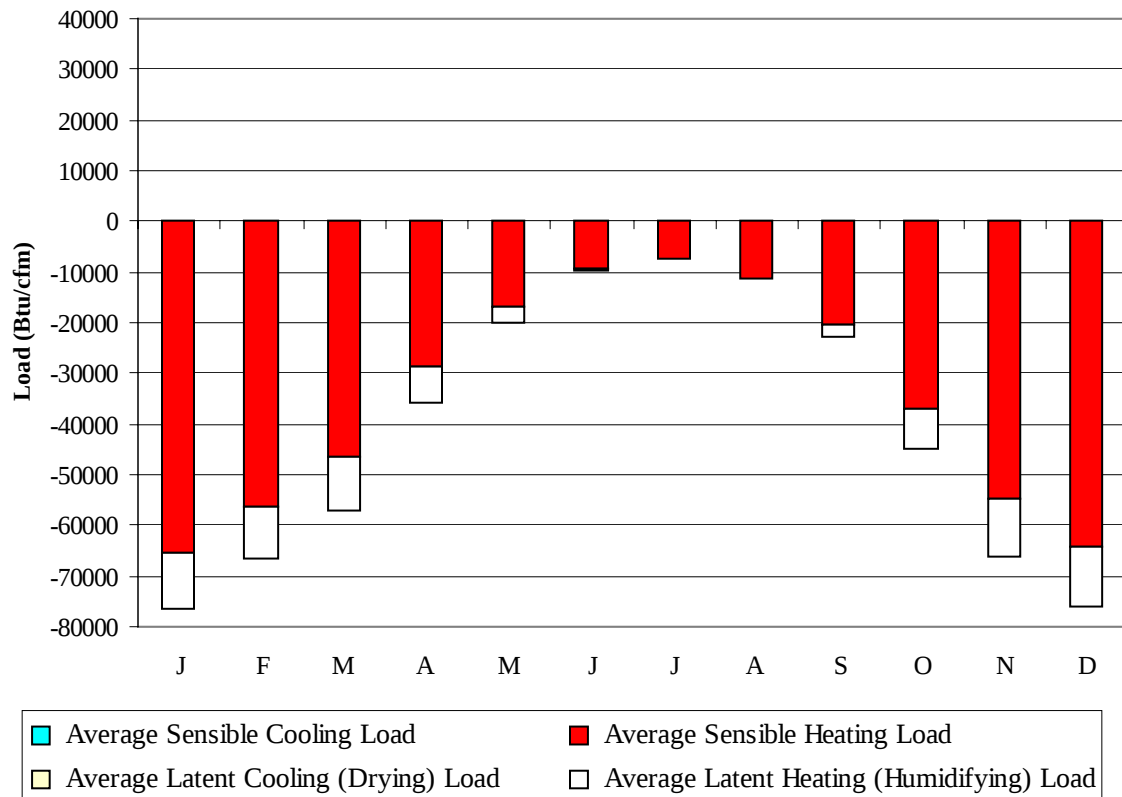
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	2431
FEB	0	2086
MAR	0	1692
APR	0	1009
MAY	4	560
JUN	29	285
JUL	45	208
AUG	25	350
SEP	1	701
OCT	0	1341
NOV	0	2026
DEC	0	2388
ANN	103	15077

NORTHWAY

AK

WMO No. 702910

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	-65379	0	-11071
FEB	0	-56283	0	-10475
MAR	0	-46262	0	-10999
APR	0	-28498	0	-7112
MAY	6	-16914	0	-3107
JUN	68	-9400	0	-440
JUL	105	-7273	3	-36
AUG	82	-11192	3	-212
SEP	0	-20494	0	-2276
OCT	0	-37163	0	-7621
NOV	0	-54839	0	-11502
DEC	0	-64272	0	-11860
ANN	261	-417969	6	-76711

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

No Solar Radiation
Data Available

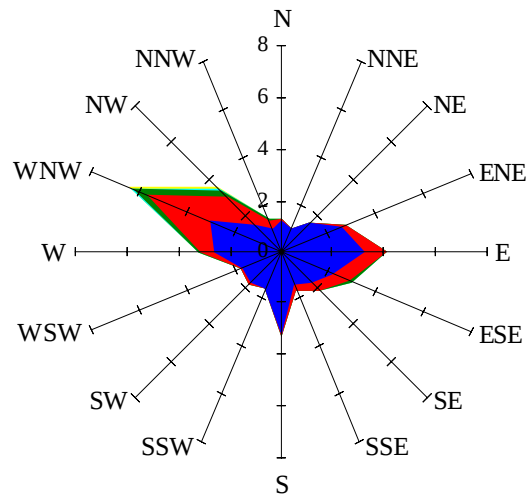


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

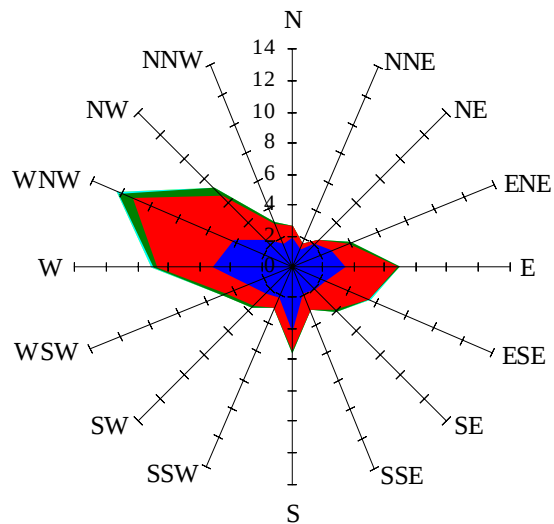
Labels of Percent Frequency on North Axis



Percent Calm = 60.54

Wind Summary - March, April, and May

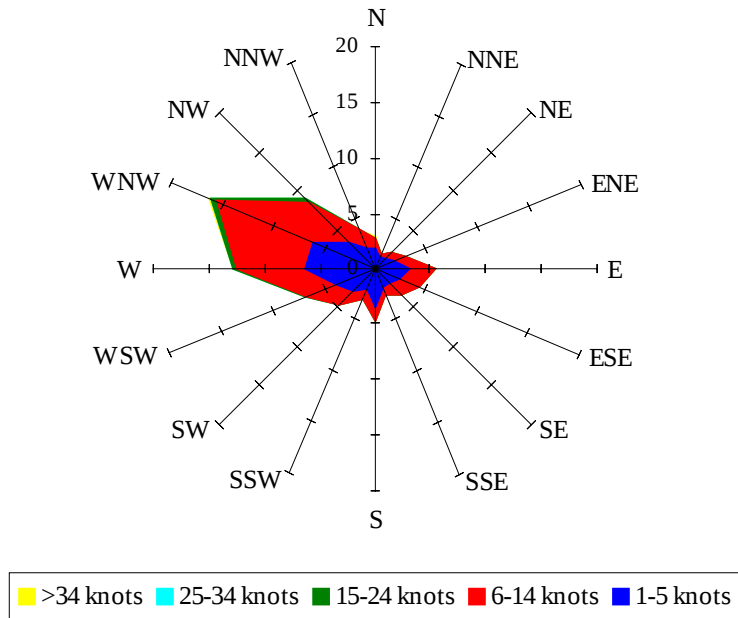
Labels of Percent Frequency on North Axis



Percent Calm = 22.60

Wind Summary - June, July, and August

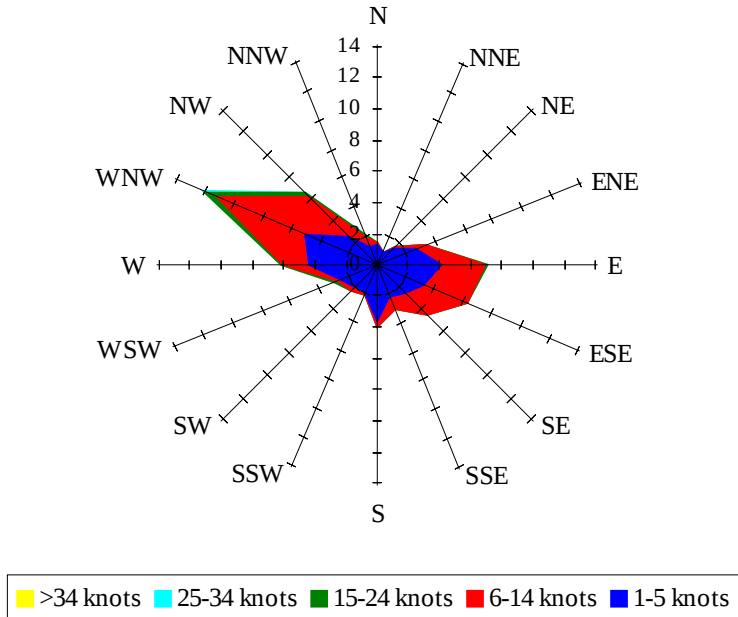
Labels of Percent Frequency on North Axis



Percent Calm = 14.44

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 33.97