INUVIK CN	
Latitude = 68.30 N	WMO No. 719570
Longitude =133.40 W	Elevation = 223 feet
Period of Record = 1973 to 1996	Average Pressure = 29.71 inches Hg

Design Criteria Data

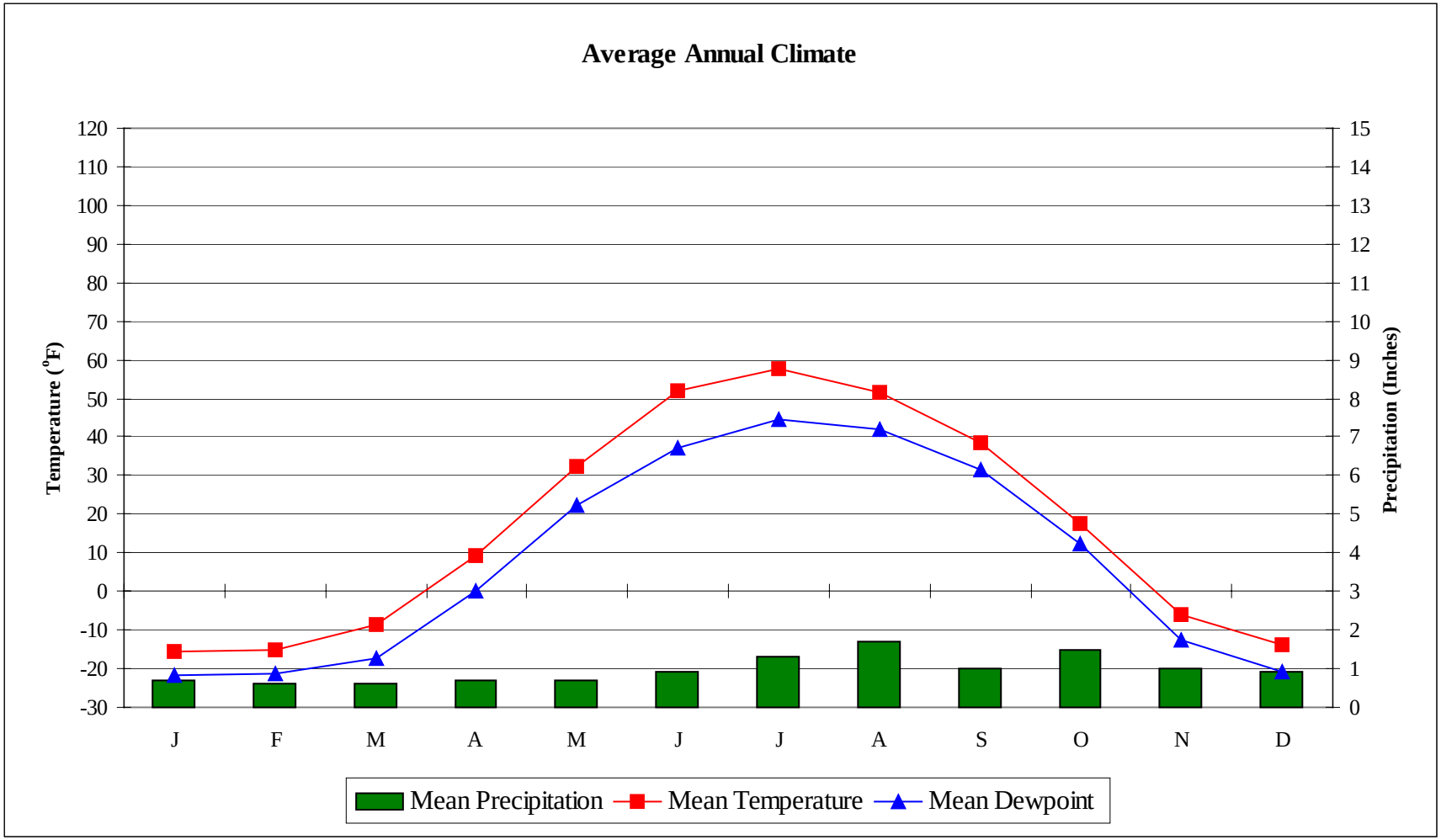
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	84	63	54	6.8	S
0.4% Occurrence	79	61	51	7.4	S
1.0% Occurrence	75	59	49	7.5	S
2.0% Occurrence	72	58	48	7.6	E
Mean Daily Range	16	-	-	-	-
97.5% Occurrence	-37	-37	1	2.0	E
99.0% Occurrence	-42	-42	0	1.4	E
99.6% Occurrence	-47	-47	0	0.8	E
Median of Extreme Lows	-51	.	.	0.7	E
		Mean Coincident (Average) Values			
Wet Bulb Temperature (T_{wb})	**Design Value (^oF)**	Dry Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	65	78	69	6.6	W
0.4% Occurrence	62	75	62	6.7	S
1.0% Occurrence	60	72	57	6.8	S
2.0% Occurrence	58	69	54	6.7	E
		Mean Coincident (Average) Values			
Humidity Ratio (HR)	**Design Value (gr/lb)**	Dry Bulb Temperature (^oF)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	81	76	0.54	5.8	W
0.4% Occurrence	67	67	0.44	6.1	WNW
1.0% Occurrence	62	65	0.42	5.7	WNW
2.0% Occurrence	58	64	0.39	6.0	E
Air Conditioning/		$T \geq 93^oF$	$T \geq 80^oF$	$T_{wb} \geq 73^oF$	$T_{wb} \geq 67^oF$
Humid Area Criteria	# of Hours	0	24	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
1	N/A	N/A	0.0 + 0.0
Ground Water Temperature (^oF) 50 Foot Depth *	**Frost Depth 50 Year Recurrence (in.)**	**Ground Snow Load 50 Year Recurrence (lb/ft^2)**	**Average Annual Freeze-Thaw Cycles (#)**
19.4	N/A	N/A	34

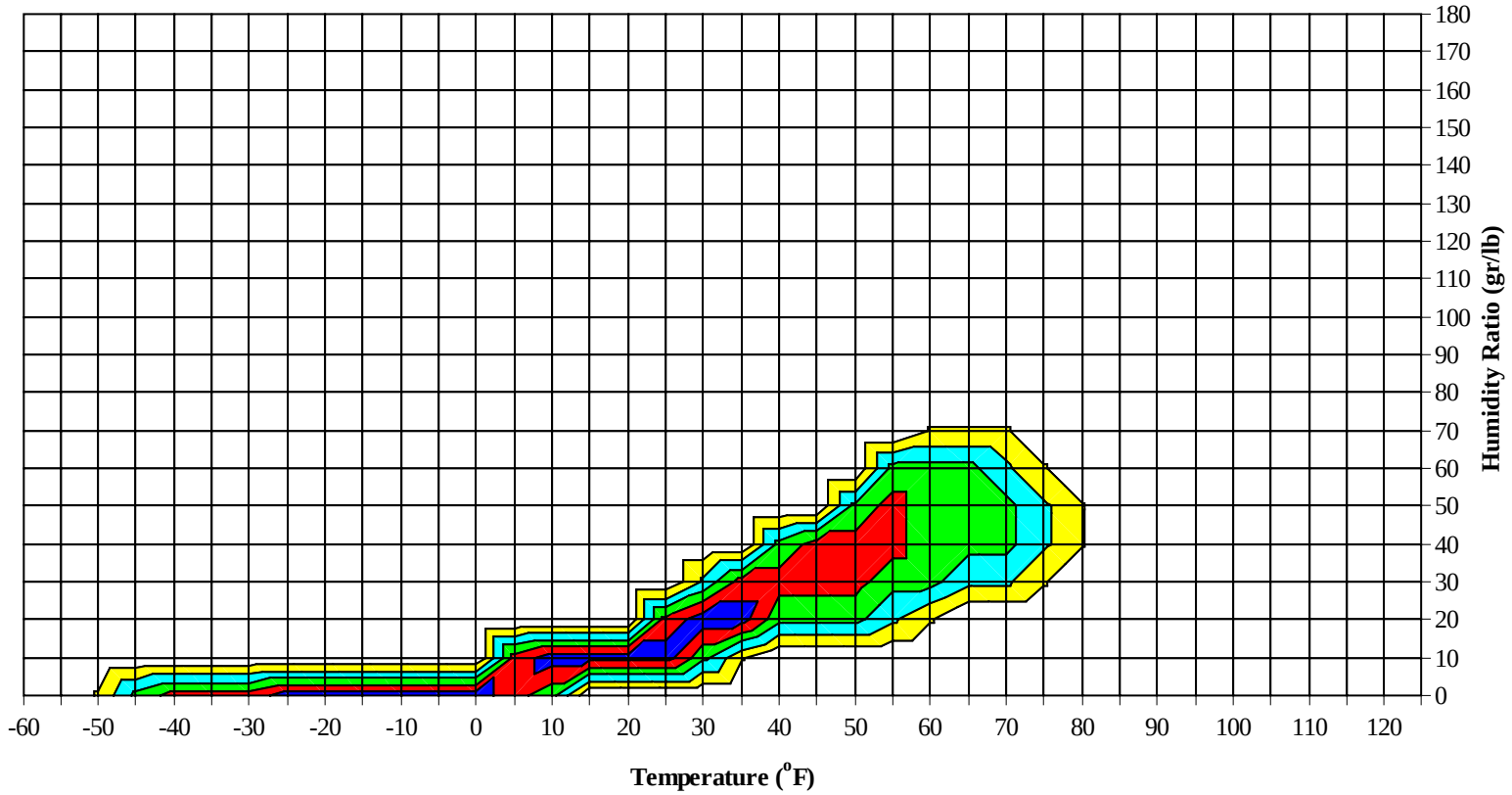
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

INUVIK **CN** WMO No. 719570



INUVIK **CN** WMO No. 719570

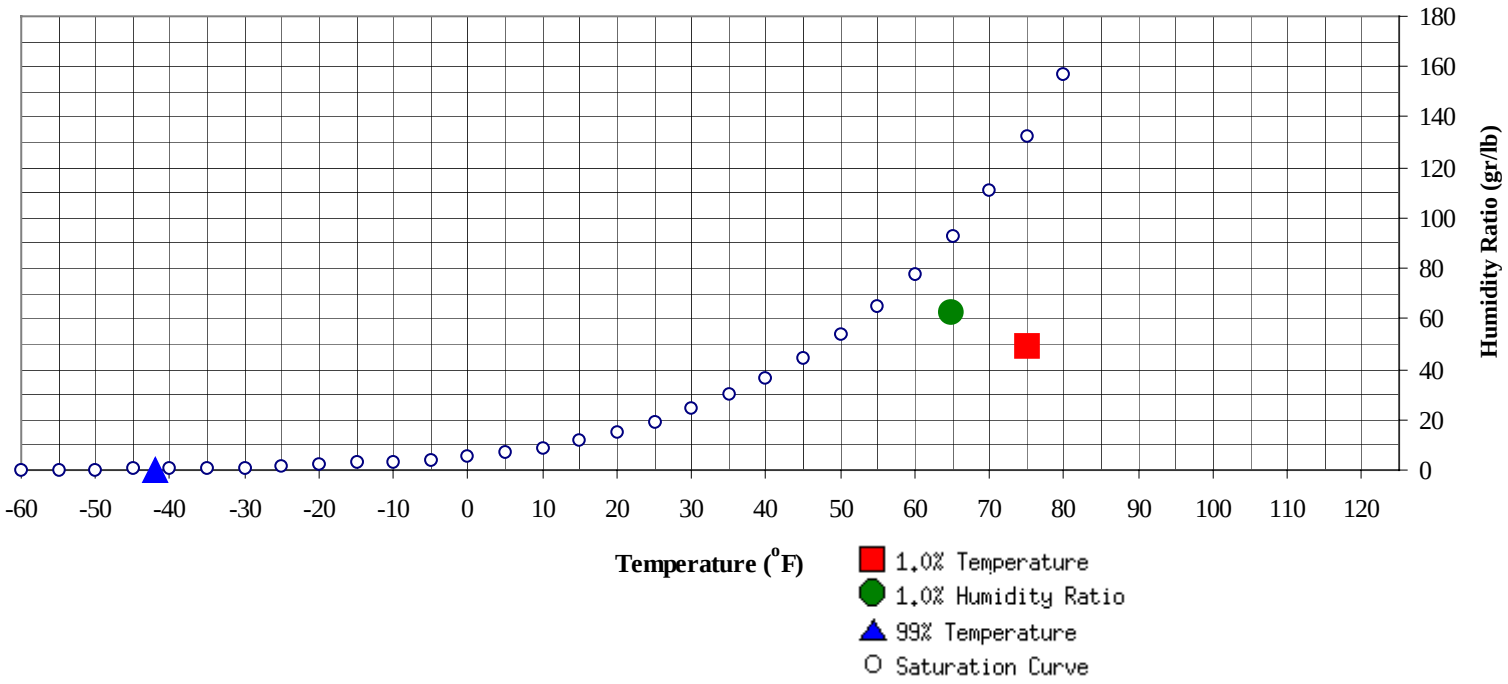
Long Term Psychrometric Summary



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

INUVIK **CN** WMO No. 719570

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	-42	0.2	-10.1

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	62.3	64.9	58.2	53.6	25.3

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	75	49.5	59.1	25.7

INUVIK CN WMO No. 719570

Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	January Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	February Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	March Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64															
55 / 59															
50 / 54															
45 / 49															
40 / 44			0	0	36.0		0		0	34.0					
35 / 39		0	0	0	32.7		0	0	0	32.0		1	1	2	30.4
30 / 34	1	2	1	4	28.9	1	1	1	3	29.2	0	2	2	4	27.1
25 / 29	2	1	2	5	24.4	2	3	2	7	24.0	2	3	2	7	23.0
20 / 24	2	2	2	6	19.9	3	4	3	10	20.4	3	3	4	10	19.5
15 / 19	5	5	5	15	15.9	5	6	6	17	15.7	4	9	9	22	15.1
10 / 14	9	9	7	25	10.8	8	11	10	29	10.8	8	16	17	41	10.2
5 / 9	13	13	15	41	6.1	13	12	12	37	5.8	14	22	21	57	5.3
0 / 4	19	19	21	59	0.5	14	16	16	46	0.3	24	29	28	81	0.2
-5 / -1	15	16	16	47	-3.8	11	14	13	38	-3.9	20	25	23	68	-3.8
-10 / -6	29	30	28	87	-8.1	20	20	22	62	-8.2	31	35	36	102	-8.2
-15 / -11	20	21	18	59	-12.5	15	19	15	49	-12.7	23	27	27	77	-12.6
-20 / -16	24	26	27	77	-17.0	23	27	26	76	-17.3	36	32	31	99	-17.0
-25 / -21	24	24	26	74	-22.3	28	30	28	86	-22.2	27	21	22	70	-22.2
-30 / -26	24	23	21	68	-27.5	26	23	24	73	-27.4	20	13	14	47	-27.3
-35 / -31	15	16	18	49	-31.9	14	15	16	45	-32.0	13	5	7	25	-31.9
-40 / -36	20	20	21	61	-36.6	15	11	15	41	-36.3	13	3	5	21	-36.3
-45 / -41	14	13	14	41	-41.4	11	7	10	28	-41.7	5	1	2	8	-41.4
-50 / -46	7	5	7	19	-45.1	8	5	4	17	-45.5	3	0	0	3	-47.0
-55 / -51	1	1	2	4		4	1	2	7		1	0	0	1	
-60 / -56	0		0	0		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.

INUVIK CN WMO No. 719570

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	April Hour Group (LST) 01 To 08	April 09 To 16	April 17 To 00	April Total Obs	April MCWB (°F)	May Hour Group (LST) 01 To 08	May 09 To 16	May 17 To 00	May Total Obs	May MCWB (°F)	June Hour Group (LST) 01 To 08	June 09 To 16	June 17 To 00	June Total Obs	June MCWB (°F)
90 / 94															
85 / 89												0	0	0	63.5
80 / 84												1	2	3	60.3
75 / 79								0	0	55.0	0	11	12	23	57.8
70 / 74							2	2	4	54.1	1	22	26	49	55.5
65 / 69							2	3	5	51.9	3	21	24	48	54.0
60 / 64						0	6	8	14	49.6	14	35	37	86	51.8
55 / 59						2	10	10	22	46.6	31	35	31	97	48.9
50 / 54		1	1	2	41.7	6	16	16	38	43.5	38	29	30	97	45.5
45 / 49	0	4	5	9	38.6	11	22	22	55	39.7	37	29	31	97	41.6
40 / 44	1	6	7	14	35.4	13	24	26	63	36.7	33	23	20	76	38.5
35 / 39	5	12	13	30	32.1	27	37	39	103	33.4	46	24	21	91	35.0
30 / 34	11	14	14	39	28.5	50	38	39	127	29.5	33	8	6	47	30.8
25 / 29	13	18	17	48	23.7	48	33	33	114	24.7	6	1	1	8	26.3
20 / 24	10	14	16	40	19.7	23	20	16	59	20.3	0	0	0	0	21.9
15 / 19	19	27	28	74	15.6	29	22	20	71	16.0					
10 / 14	22	30	30	82	10.6	21	11	11	43	11.2					
5 / 9	29	32	31	92	5.6	10	4	2	16	6.3					
0 / 4	32	29	28	89	0.5	5	1	1	7	0.8					
-5 / -1	22	17	15	54	-3.8	2	0	0	2	-3.5					
-10 / -6	26	21	18	65	-8.1	1	0	0	1	-7.6					
-15 / -11	16	8	8	32	-12.5	0			0	-11.7					
-20 / -16	15	5	6	26	-16.9	0			0	-16.5					
-25 / -21	9	2	3	14	-22.1										
-30 / -26	6	0	1	7	-27.4										
-35 / -31	2		0	2	-32.0										
-40 / -36	1		0	1	-36.4										
-45 / -41	0			0	-40.0										
-50 / -46															
-55 / -51															
-60 / -56															

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.

INUVIK CN WMO No. 719570

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	July Hour Group (LST) 01 To 08	July 09 To 16	July 17 To 00	July Total Obs	July MCWB (°F)	August Hour Group (LST) 01 To 08	August 09 To 16	August 17 To 00	August Total Obs	August MCWB (°F)	September Hour Group (LST) 01 To 08	September 09 To 16	September 17 To 00	September Total Obs	September MCWB (°F)
90 / 94							0	0	0	69.5					
85 / 89		0	1	1	65.4		0	1	1	68.2					
80 / 84		6	8	14	62.1		2	2	4	64.1					
75 / 79	0	19	23	42	60.1	0	6	6	12	61.6		0	0	0	58.9
70 / 74	2	37	38	77	58.1	1	14	16	31	58.4		1	1	2	55.8
65 / 69	10	28	26	64	56.5	2	18	19	39	56.2		1	2	3	53.9
60 / 64	33	40	43	116	54.2	12	35	35	82	53.9	1	5	6	12	51.2
55 / 59	50	38	38	126	51.1	28	42	39	109	51.1	2	15	13	30	48.4
50 / 54	53	35	33	121	47.9	47	42	43	133	47.8	7	23	23	53	45.8
45 / 49	49	28	25	102	43.8	61	43	38	143	43.8	25	40	37	102	42.5
40 / 44	27	11	10	48	40.0	38	22	22	82	39.8	34	34	34	102	39.3
35 / 39	22	5	4	31	36.4	35	18	19	72	35.7	59	51	49	160	35.2
30 / 34	2	0	0	2	32.0	20	5	7	32	31.1	58	40	43	142	30.5
25 / 29						3		0	3	26.7	30	16	17	63	25.5
20 / 24						0			0	22.5	10	7	8	25	20.4
15 / 19											9	4	6	19	16.7
10 / 14											3	1	1	5	11.5
5 / 9											1	0	0	1	7.0
0 / 4											0	0		0	1.8
-5 / -1											0			0	-4.0
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															
-60 / -56															

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 4 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	October Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	November Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	December Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64															
55 / 59															
50 / 54		0	0	0	42.9										
45 / 49	1	2	2	5	39.5										
40 / 44	2	3	3	8	36.7										
35 / 39	5	11	10	26	33.3	0		0	0	31.0	0	0		0	32.3
30 / 34	26	32	31	89	30.0	1	1	1	3	28.5	1	1	1	3	29.4
25 / 29	44	45	44	133	25.2	4	3	3	10	24.4	1	1	1	3	24.0
20 / 24	31	31	32	94	20.8	4	4	5	13	20.3	2	2	2	6	20.4
15 / 19	40	40	38	118	16.4	11	12	11	34	16.0	5	4	5	14	15.9
10 / 14	29	29	28	86	11.3	18	20	18	56	10.9	7	7	7	21	10.8
5 / 9	26	23	25	74	6.2	25	24	25	74	5.9	13	12	11	36	5.8
0 / 4	20	15	15	50	1.0	30	31	28	89	0.7	18	22	20	60	0.4
-5 / -1	7	6	7	20	-3.7	20	21	23	64	-3.7	19	17	21	57	-3.8
-10 / -6	7	6	7	20	-7.8	29	32	30	91	-7.9	31	33	32	96	-8.1
-15 / -11	4	2	4	10	-12.4	20	20	22	62	-12.5	28	24	25	77	-12.5
-20 / -16	3	2	3	8	-16.9	28	25	26	79	-16.9	32	35	31	98	-17.0
-25 / -21	2	1	1	4	-22.1	19	23	20	62	-22.2	29	28	27	84	-22.2
-30 / -26	0	0	0	0	-26.2	14	11	15	40	-27.4	20	25	25	70	-27.5
-35 / -31						7	5	7	19	-32.1	16	14	17	47	-32.0
-40 / -36						6	5	6	17	-36.4	14	13	14	41	-36.3
-45 / -41						2	1	2	5	-40.8	8	6	7	21	-41.6
-50 / -46											3	2	3	8	-45.3
-55 / -51															
-60 / -56															

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.

INUVIK CN WMO No. 719570

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

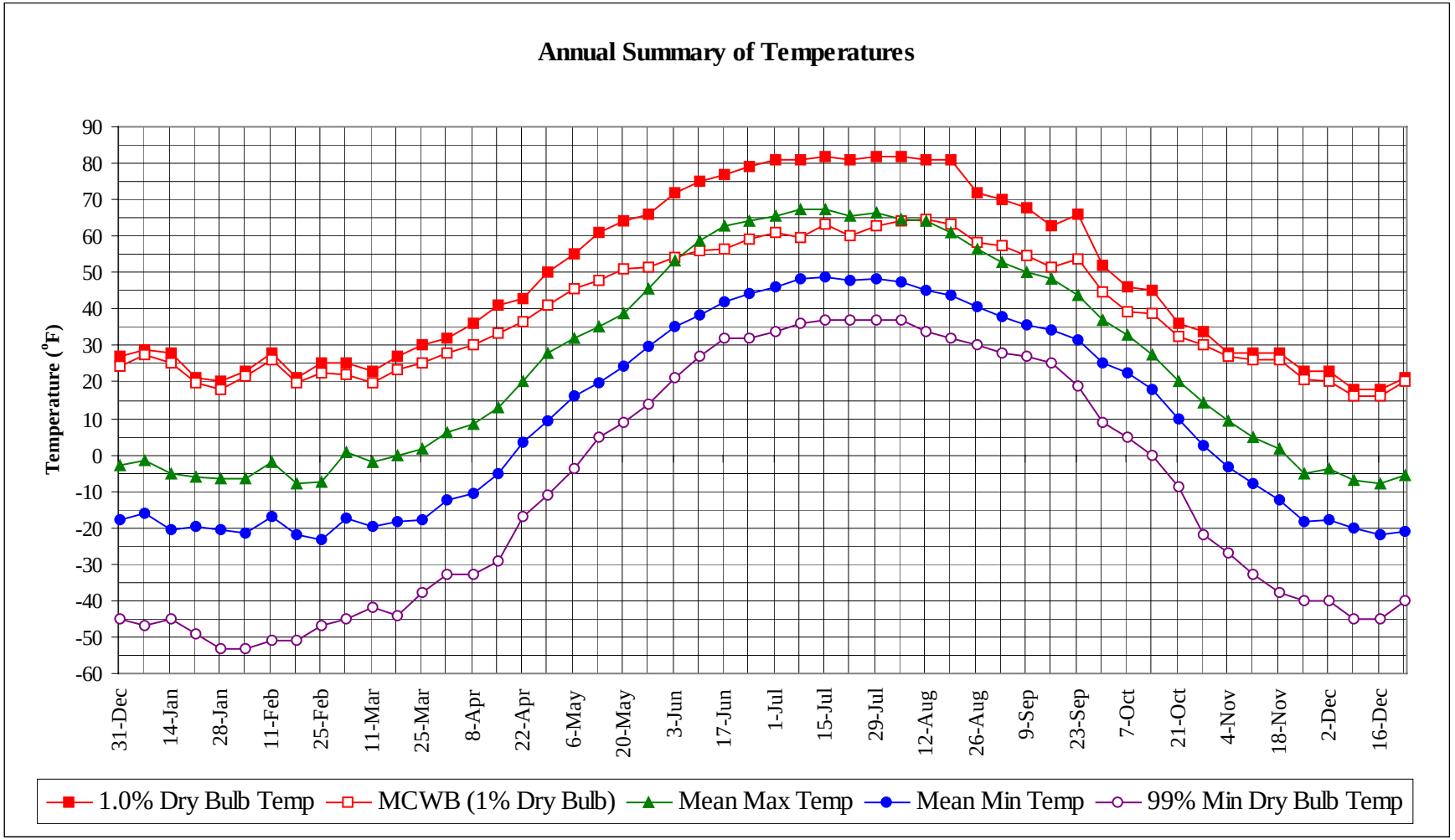
Period of Record = 1973 to 1996

Annual Totals

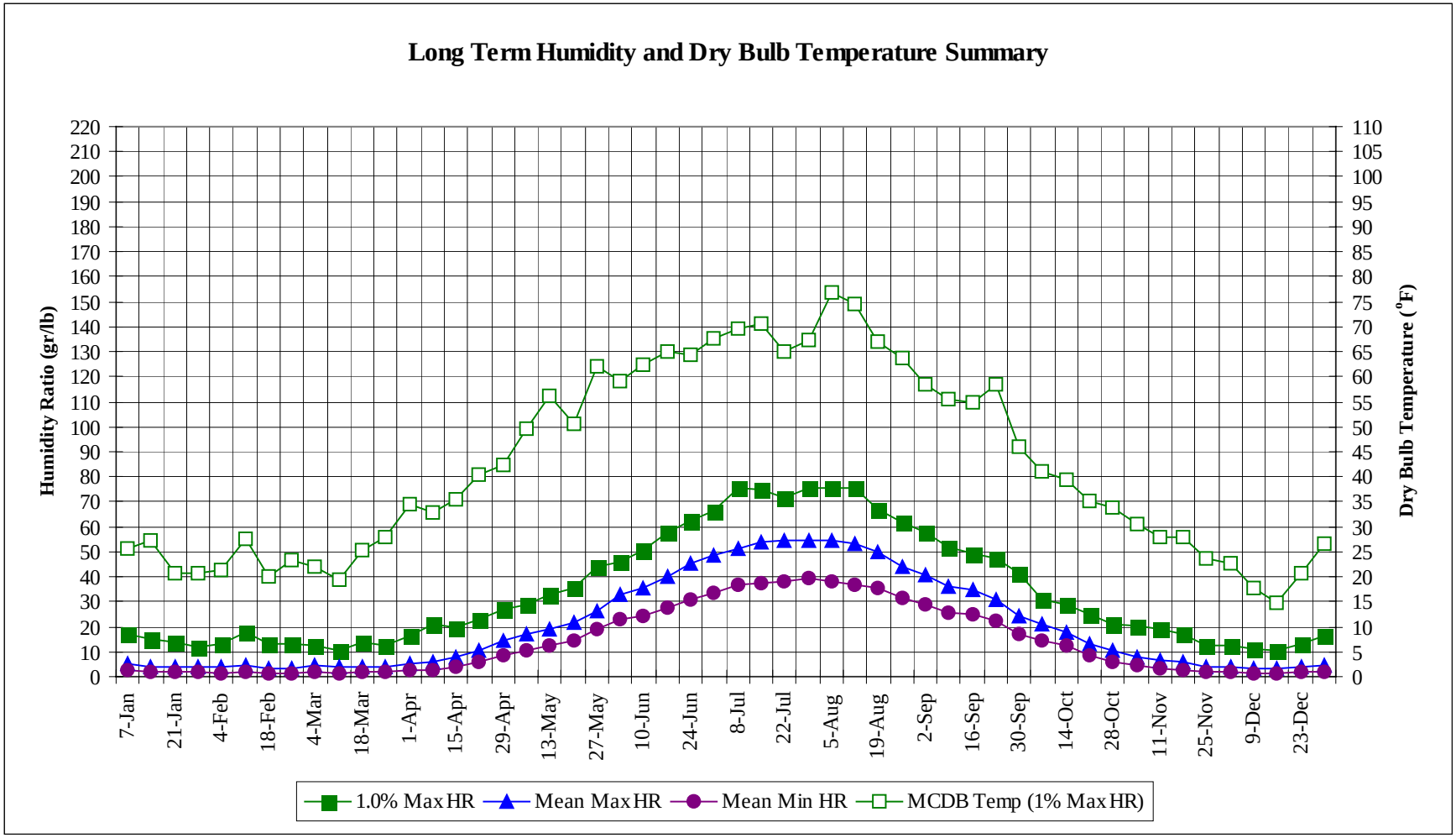
Temperature Range (°F)	Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
90 / 94		0	0	0	69.5
85 / 89		1	2	3	66.4
80 / 84		9	13	22	62.3
75 / 79	0	36	41	77	59.6
70 / 74	4	75	84	163	57.2
65 / 69	16	72	74	162	55.5
60 / 64	60	122	127	310	53.2
55 / 59	114	140	131	385	50.1
50 / 54	152	148	145	445	46.7
45 / 49	185	169	161	515	42.6
40 / 44	148	124	122	394	38.7
35 / 39	200	159	154	513	34.7
30 / 34	204	143	145	492	30.0
25 / 29	158	125	123	406	24.8
20 / 24	87	88	87	262	20.4
15 / 19	128	130	127	385	16.0
10 / 14	126	135	128	389	10.9
5 / 9	145	142	142	429	5.8
0 / 4	165	160	155	480	0.5
-5 / -1	118	116	117	351	-3.8
-10 / -6	175	175	172	522	-8.1
-15 / -11	126	122	117	365	-12.5
-20 / -16	161	153	148	462	-17.0
-25 / -21	138	127	126	391	-22.2
-30 / -26	111	95	99	305	-27.4
-35 / -31	67	56	64	187	-32.0
-40 / -36	69	52	61	182	-36.4
-45 / -41	40	28	33	101	-41.5
-50 / -46	20	12	14	46	-45.3
-55 / -51	6	3	4	13	
-60 / -56	0		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.

INUVIK **CN** WMO No. 719570



INUVIK **CN** WMO No. 719570

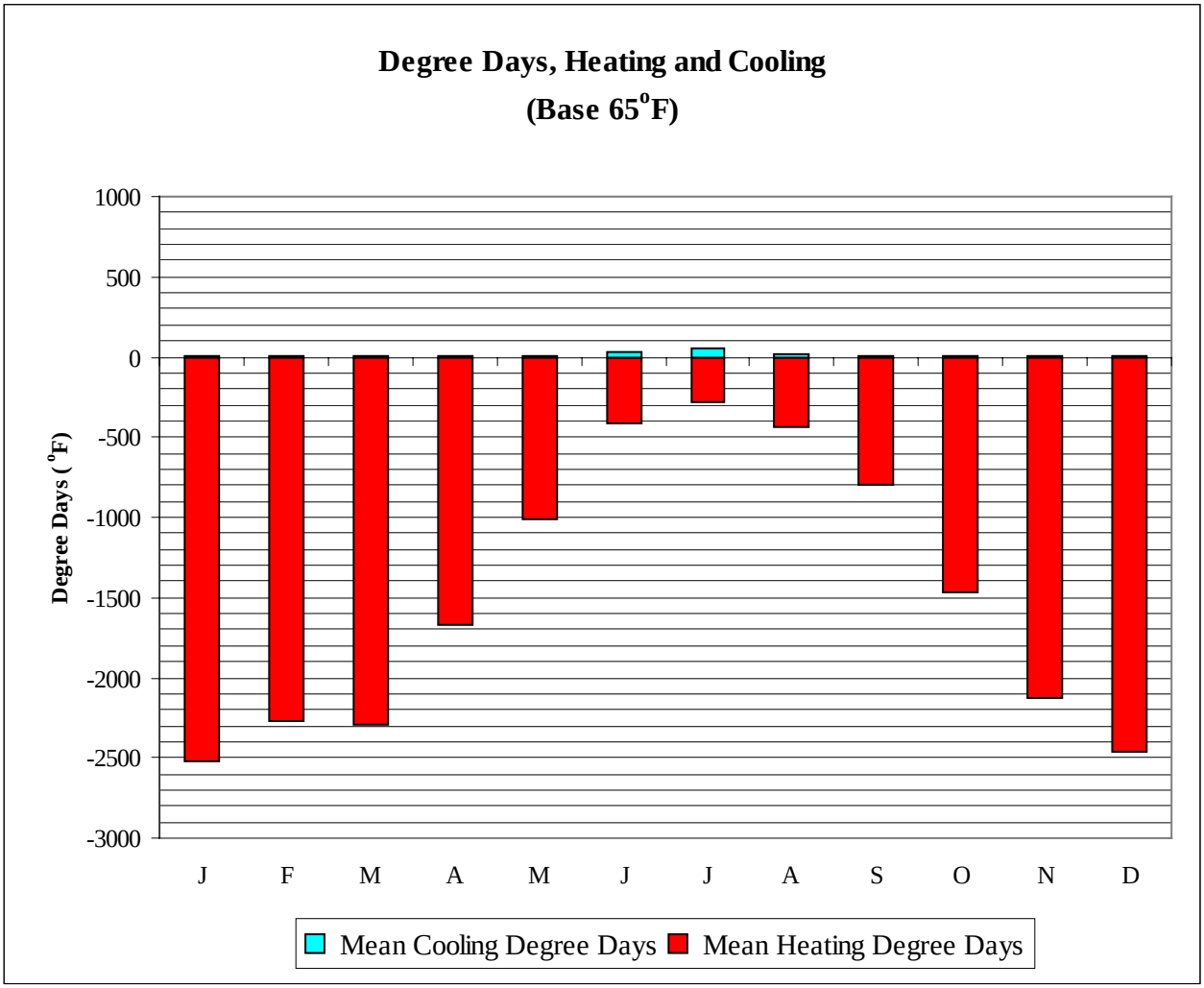


INUVIK **CN** WMO No. 719570

Long Term Dry Bulb Temperature and Humidity Summary

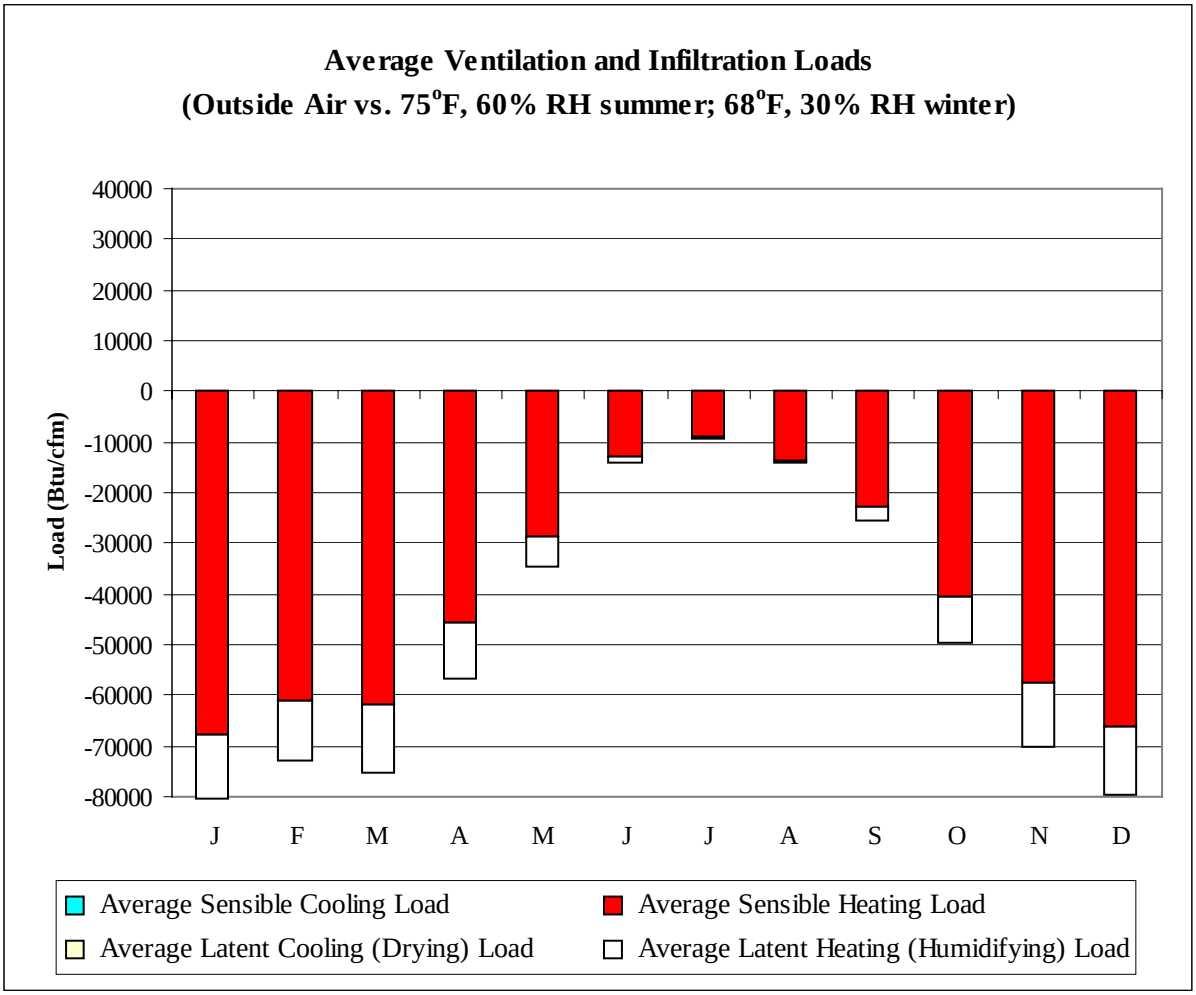
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	29.0	27.4	-1.7	-16.0	-47.0	16.8	25.7	5.1	2.3
14-Jan	28.0	25.1	-5.1	-20.4	-45.0	15.4	27.4	4.1	1.8
21-Jan	21.0	19.8	-6.2	-19.8	-49.0	14.0	20.6	3.7	1.8
28-Jan	20.0	18.0	-6.3	-20.5	-53.0	11.9	20.7	3.7	1.7
4-Feb	23.0	21.4	-6.5	-21.3	-53.0	13.3	21.4	3.9	1.6
11-Feb	28.0	26.2	-2.0	-17.0	-51.0	17.5	27.7	4.9	2.1
18-Feb	21.0	19.9	-7.7	-22.0	-51.0	13.3	20.1	3.6	1.6
25-Feb	25.0	22.4	-7.5	-23.5	-47.0	13.3	23.2	3.3	1.5
4-Mar	25.0	22.1	0.6	-17.2	-45.0	12.6	21.9	4.8	2.0
11-Mar	23.0	19.8	-2.1	-19.9	-42.0	10.5	19.2	3.7	1.6
18-Mar	27.0	23.6	-0.3	-18.4	-44.0	14.0	25.4	4.1	1.8
25-Mar	30.0	25.1	1.5	-18.0	-38.0	12.6	27.8	4.2	1.8
1-Apr	32.0	27.7	6.2	-12.4	-33.0	16.1	34.6	5.3	2.4
8-Apr	36.0	30.2	8.5	-10.8	-33.0	21.0	32.9	6.2	2.8
15-Apr	41.0	33.5	13.1	-5.3	-29.0	19.6	35.5	7.9	3.7
22-Apr	43.0	36.3	20.4	3.3	-17.0	23.1	40.2	10.8	5.8
29-Apr	50.0	41.1	27.8	9.5	-11.0	26.6	42.5	14.7	8.3
6-May	55.0	45.8	32.0	16.0	-4.0	28.7	49.6	17.2	10.8
13-May	61.0	48.1	35.3	19.7	5.0	32.9	56.1	19.1	12.5
20-May	64.0	51.2	38.9	24.1	9.0	35.7	50.6	21.8	14.7
27-May	66.0	51.5	45.7	29.7	14.0	44.1	62.1	26.5	18.8
3-Jun	72.0	54.1	53.4	35.0	21.0	46.2	59.2	32.5	22.7
10-Jun	75.0	55.9	58.6	38.4	27.0	50.4	62.3	35.7	24.4
17-Jun	77.0	56.4	62.7	42.0	32.0	58.1	64.9	39.8	27.6
24-Jun	79.0	59.2	64.3	44.1	32.0	62.3	64.5	45.5	31.0
1-Jul	81.0	61.0	65.4	46.2	34.0	66.5	67.6	48.6	33.3
8-Jul	81.0	59.8	67.2	48.4	36.0	75.6	69.6	51.4	36.5
15-Jul	82.0	63.1	67.2	48.9	37.0	74.9	70.6	53.7	37.6
22-Jul	81.0	60.2	65.5	47.7	37.0	71.4	65.0	54.6	38.3
29-Jul	82.0	62.9	66.3	48.4	37.0	75.6	67.4	54.6	39.2
5-Aug	82.0	64.1	64.6	47.2	37.0	75.6	76.9	54.4	38.3
12-Aug	81.0	64.8	64.0	45.3	34.0	75.6	74.7	53.1	36.6
19-Aug	81.0	63.3	60.8	43.9	32.0	67.2	66.9	49.6	35.2
26-Aug	72.0	58.2	56.4	40.6	30.0	61.6	63.6	44.1	31.3
2-Sep	70.0	57.4	52.8	37.7	28.0	58.1	58.3	41.0	28.8
9-Sep	68.0	54.8	50.2	35.6	27.0	51.8	55.6	35.9	25.6
16-Sep	63.0	51.5	48.5	34.5	25.0	49.0	55.0	34.8	24.8
23-Sep	66.0	53.9	43.7	31.5	19.0	47.6	58.3	30.8	22.1
30-Sep	52.0	44.5	36.9	25.1	9.0	41.3	46.1	24.5	17.1
7-Oct	46.0	39.3	32.7	22.3	5.0	30.8	40.9	20.8	14.5
14-Oct	45.0	38.8	27.5	17.8	0.0	28.7	39.3	18.1	12.3
21-Oct	36.0	32.3	20.4	9.7	-9.0	25.2	35.0	13.5	8.3
28-Oct	34.0	30.2	14.5	2.7	-22.0	21.0	33.9	10.4	6.1
4-Nov	28.0	27.1	9.5	-3.2	-27.0	20.3	30.5	8.1	4.4
11-Nov	28.0	26.1	4.8	-8.0	-33.0	18.9	27.9	6.6	3.4
18-Nov	28.0	25.9	1.8	-12.3	-38.0	16.8	28.0	5.8	2.7
25-Nov	23.0	20.9	-5.2	-18.5	-40.0	12.6	23.5	3.8	1.8
2-Dec	23.0	20.1	-3.8	-17.9	-40.0	12.6	22.8	4.1	1.9
9-Dec	18.0	16.1	-6.8	-20.0	-45.0	11.2	17.7	3.3	1.6
16-Dec	18.0	16.0	-7.9	-21.9	-45.0	10.5	14.9	3.1	1.5
23-Dec	21.0	20.0	-5.8	-20.8	-40.0	13.3	20.6	3.9	1.7
31-Dec	27.0	24.3	-2.8	-17.8	-45.0	16.1	26.7	4.6	2.1

INUVIK **CN** WMO No. 719570



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	2520
FEB	0	2274
MAR	0	2289
APR	0	1675
MAY	1	1015
JUN	30	418
JUL	56	280
AUG	21	437
SEP	1	794
OCT	0	1467
NOV	0	2127
DEC	0	2457
ANN	109	17753

INUVIK CN WMO No. 719570



	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	-67717	0	-12776
FEB	0	-61153	0	-11767
MAR	0	-61756	0	-13489
APR	0	-45749	0	-11041
MAY	0	-28685	0	-6087
JUN	62	-12837	0	-1234
JUL	181	-9104	3	-140
AUG	65	-13500	3	-514
SEP	1	-22896	0	-2743
OCT	0	-40447	0	-9046
NOV	0	-57454	0	-12707
DEC	0	-66075	0	-13474
ANN	309	-487373	6	-95018

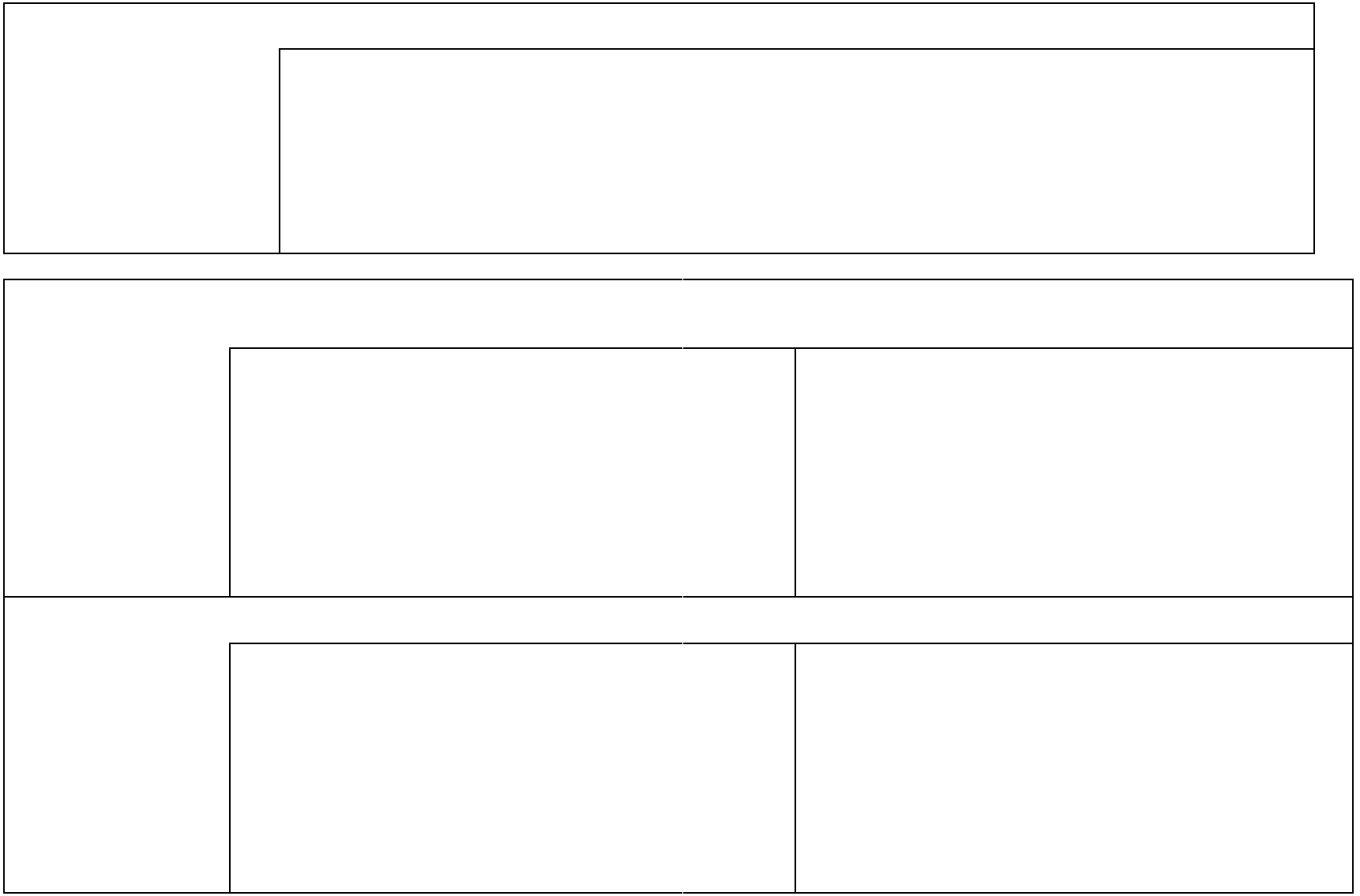
Average Annual Solar Radiation – Nearest Available Site

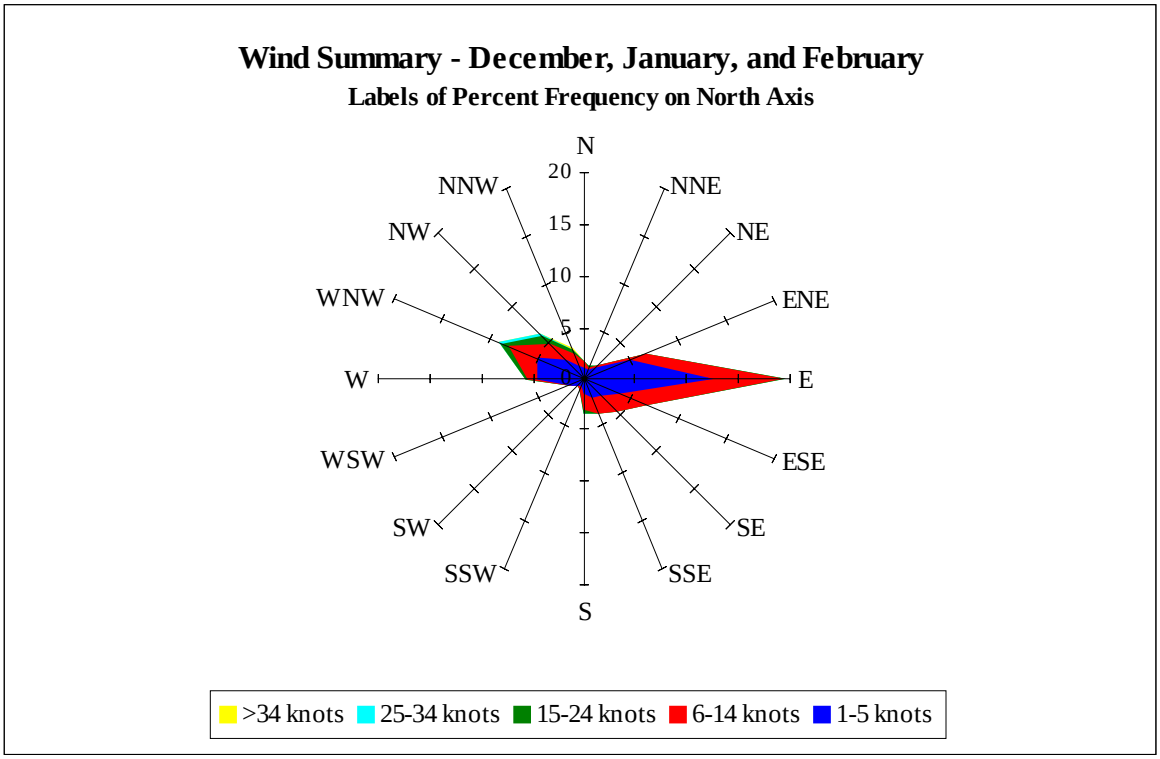
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

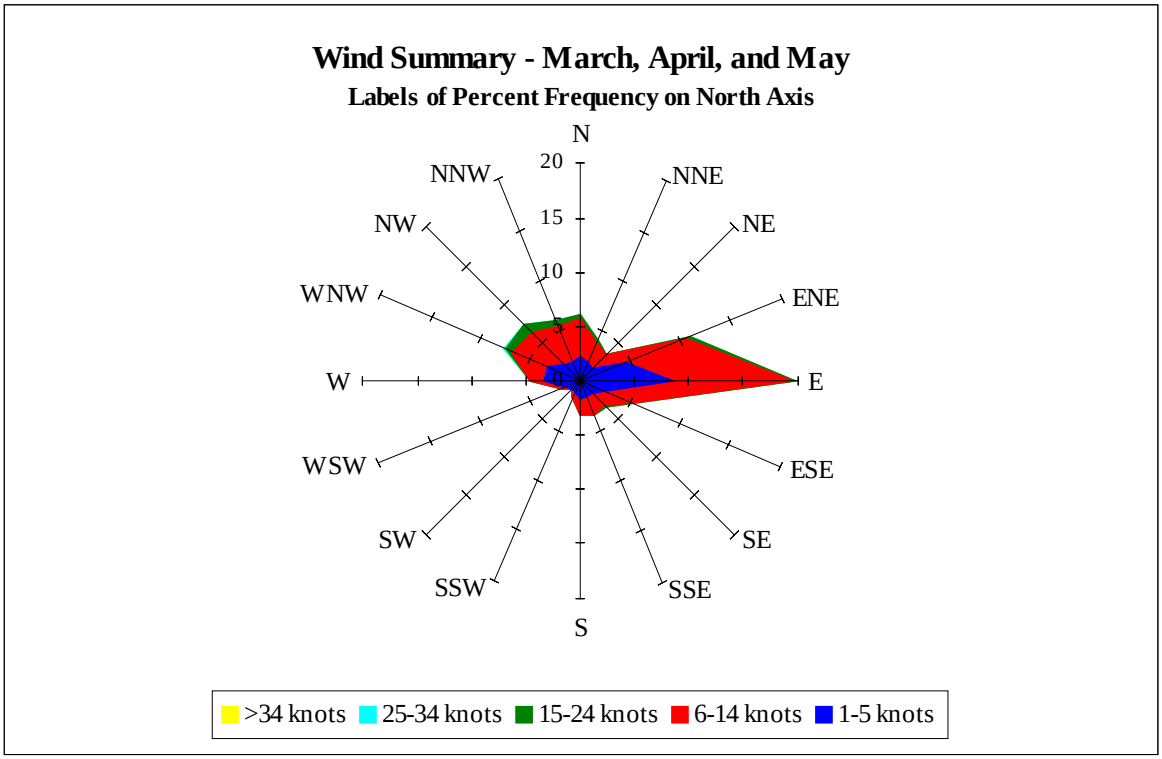
Average Annual Solar Heat and Illumination – Nearest Available Site

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

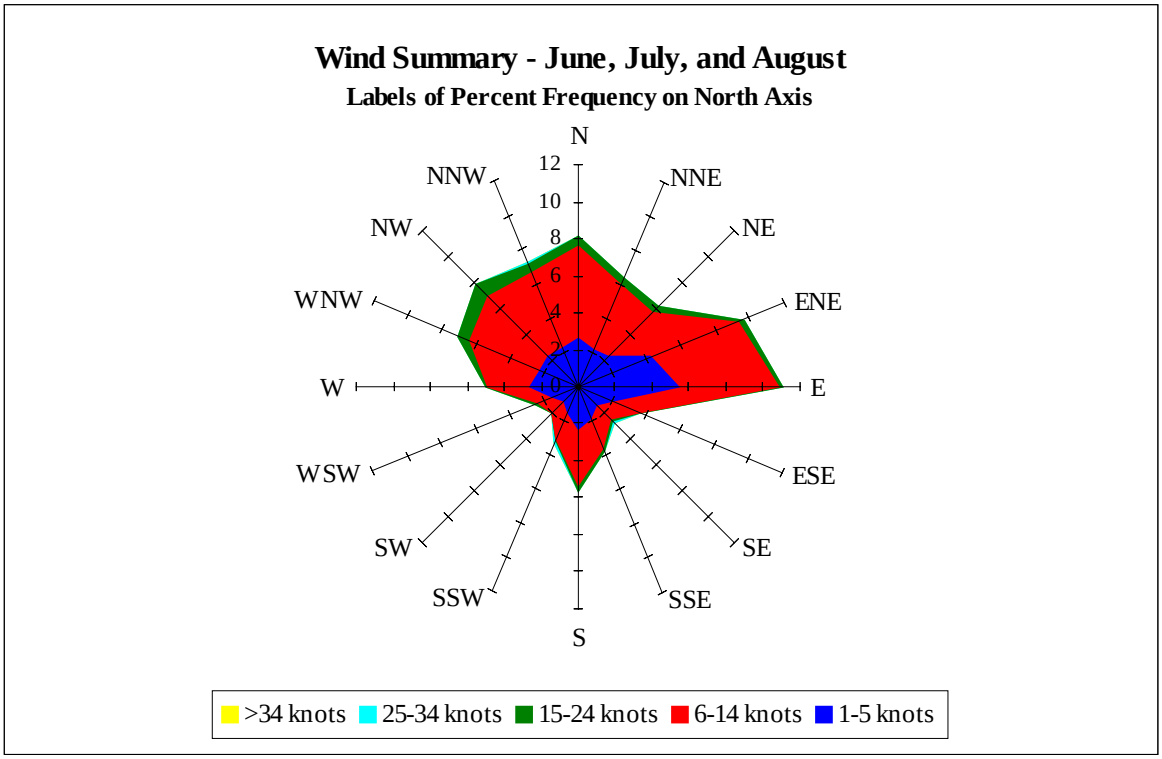




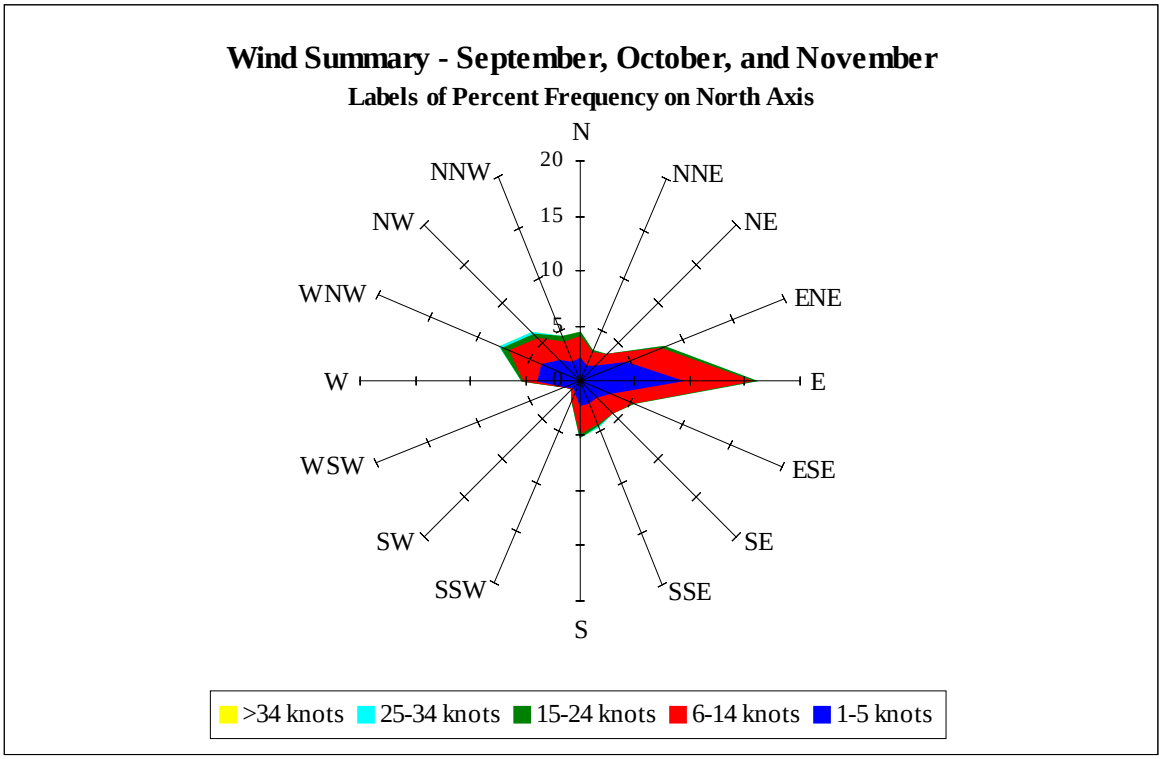
Percent Calm = 25.47



Percent Calm = 11.17



Percent Calm = 8.06



Percent Calm = 18.09