WHITEHORSE CN	
Latitude = 60.72 N	WMO No. 719640
Longitude =135.00 W	Elevation = 2307 feet
Period of Record = 1973 to 1996	Average Pressure = 27.53 inches Hg

Design Criteria Data

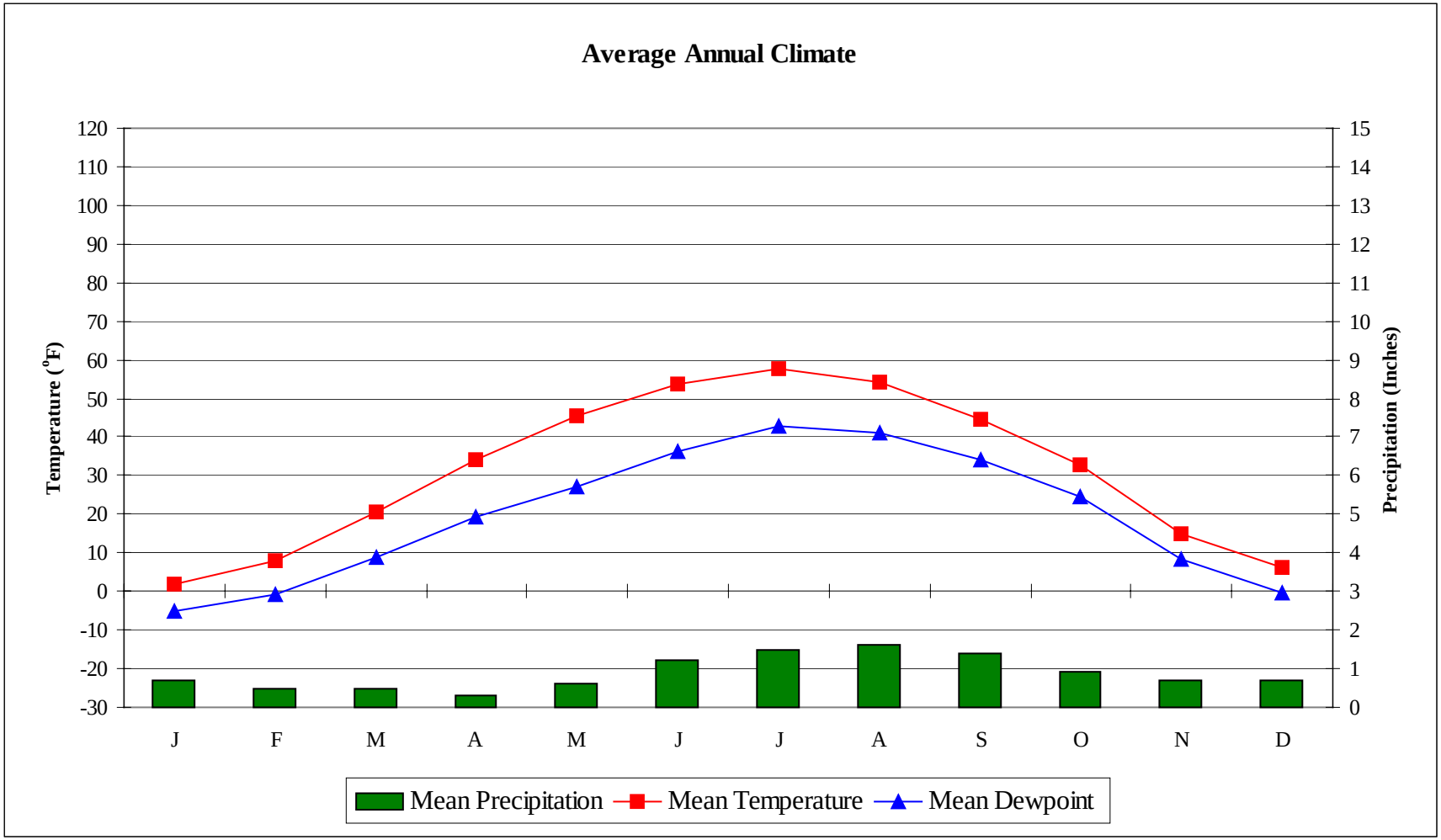
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	82	59	44	6.8	SSE
0.4% Occurrence	77	57	44	7.7	SSE
1.0% Occurrence	73	55	43	7.6	SSE
2.0% Occurrence	70	54	43	7.8	SSE
Mean Daily Range	17	-	-	-	-
97.5% Occurrence	-24	-24	1	4.1	NNW
99.0% Occurrence	-33	-33	1	3.3	NNW
99.6% Occurrence	-40	-40	1	1.4	N
Median of Extreme Lows	-47	-47	0	0.6	W
		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	62	78	61	6.4	N
0.4% Occurrence	59	74	55	6.5	SSE
1.0% Occurrence	57	70	52	6.9	SSE
2.0% Occurrence	55	67	50	7.1	SSE
		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	76	64	0.47	5.2	SSE
0.4% Occurrence	63	61	0.39	5.5	SSE
1.0% Occurrence	59	60	0.36	6.1	SSE
2.0% Occurrence	55	59	0.34	6.2	SSE
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	19	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^oF-RH 60% Latent + Sensible
3	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 (#)
33.7	N/A	N/A	79

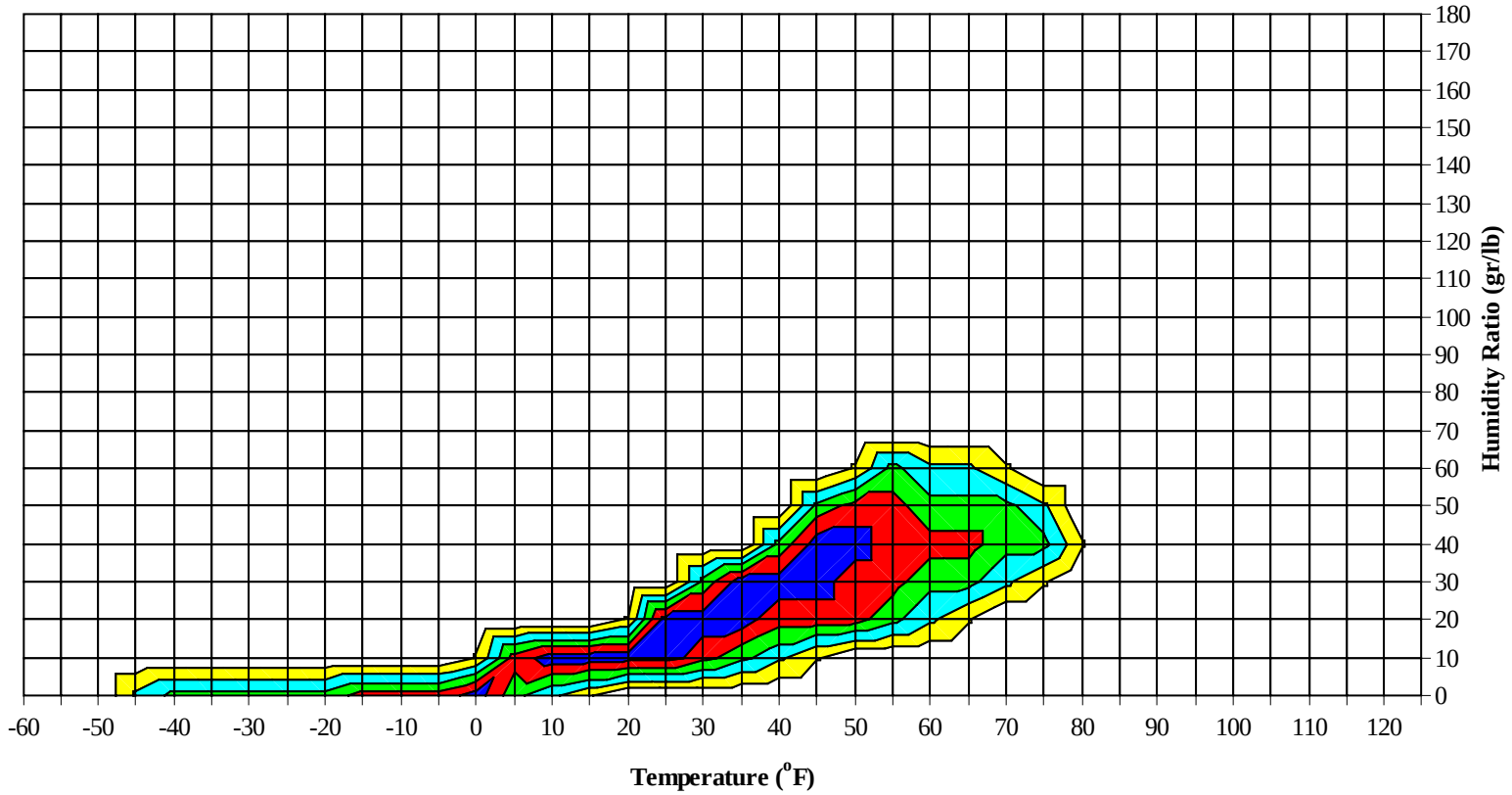
*Note: Temperatures at greater depths can be estimated by adding 1.5^oF per 100 feet additional depth.

WHITEHORSE CN WMO No. 719640



WHITEHORSE CN WMO No. 719640

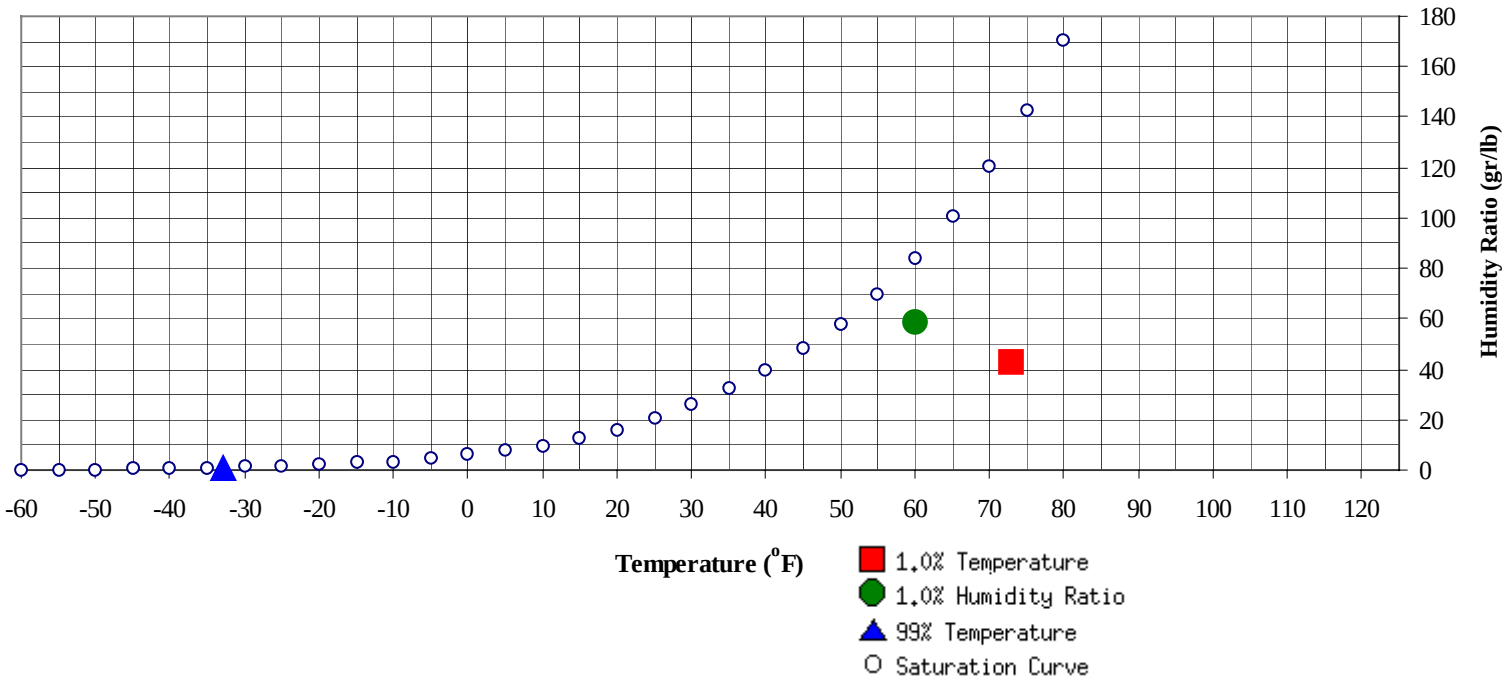
Long Term Psychrometric Summary



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

WHITEHORSE CN WMO No. 719640

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	-33	0.7	-7.8

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	58.8	60	54.2	50	23.5

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	73	43	55.7	24.2

WHITEHORSE CN WMO No. 719640

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)
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64															
55 / 59															
50 / 54							0		0	43.0		0	0	0	40.0
45 / 49							1	0	1	39.2		2	1	3	37.0
40 / 44	0	1	0	1	36.1	1	2	1	4	35.6	0	11	5	16	34.4
35 / 39	4	7	6	17	32.5	4	11	7	22	32.1	6	39	31	76	31.1
30 / 34	17	19	21	57	28.8	16	21	23	60	28.1	28	47	51	126	27.4
25 / 29	25	25	25	76	24.4	22	24	27	73	23.8	48	42	54	144	23.2
20 / 24	15	15	13	43	20.2	16	18	19	53	19.7	31	24	26	81	19.1
15 / 19	18	16	17	51	16.0	23	22	22	67	15.6	32	28	25	85	15.2
10 / 14	20	22	20	62	11.0	21	20	22	63	10.6	25	17	18	60	10.4
5 / 9	20	22	21	63	5.8	18	21	19	58	5.6	18	13	13	44	5.4
0 / 4	19	18	19	56	0.5	21	18	17	56	0.2	19	11	10	40	0.4
-5 / -1	12	12	13	37	-3.8	14	13	12	39	-3.8	12	6	5	23	-3.8
-10 / -6	16	16	18	50	-8.2	17	17	18	52	-8.4	12	4	4	20	-8.1
-15 / -11	13	14	12	39	-12.9	12	9	10	31	-12.7	6	2	2	10	-12.7
-20 / -16	17	15	14	46	-17.2	13	10	10	33	-17.0	5	2	1	8	-16.9
-25 / -21	13	13	14	40	-22.2	9	7	8	24	-22.2	3	1	1	5	-22.3
-30 / -26	12	10	11	33	-27.6	7	5	5	17	-27.5	3	0	0	3	-27.2
-35 / -31	7	7	7	21	-31.9	5	2	2	9	-31.9	1	0		1	-32.0
-40 / -36	7	6	7	20	-36.5	3	2	1	6	-36.4	0	0		0	-35.0
-45 / -41	7	5	6	18	-41.9	2	1	0	3	-40.9					
-50 / -46	4	3	2	9	-46.8	1	0	0	1						
-55 / -51	1	0	0	1	-51.2										

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.

WHITEHORSE CN WMO No. 719640

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)				MCWB	Hour Group (LST)				MCWB	Hour Group (LST)				MCWB
	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)
85 / 89															
80 / 84							0	0	0	57.3		1	1	2	57.4
75 / 79							1	1	2	54.6		7	6	13	55.9
70 / 74		0		0	50.0		2	2	4	52.3	0	17	14	31	53.5
65 / 69		1	1	2	47.9		5	3	8	49.2	0	23	17	40	51.6
60 / 64		3	2	5	45.9	0	21	14	35	46.9	2	52	40	94	49.6
55 / 59		7	4	11	43.0	1	41	32	74	44.4	13	67	60	140	47.0
50 / 54		16	10	26	40.2	8	65	51	124	41.4	46	52	58	156	44.7
45 / 49	1	38	25	64	36.9	29	68	65	162	38.6	87	17	36	139	41.9
40 / 44	6	43	32	81	34.4	42	30	37	109	36.2	52	3	8	63	38.2
35 / 39	32	65	67	164	31.4	80	14	33	127	33.0	32	0	1	33	34.6
30 / 34	74	38	56	167	27.9	63	2	10	75	28.9	9		0	9	29.8
25 / 29	67	16	27	109	23.6	22	0	1	23	24.7	0			0	25.9
20 / 24	25	6	7	38	19.3	2		0	2	20.7					
15 / 19	18	5	4	27	15.4	0			0	17.0					
10 / 14	8	2	2	12	10.4										
5 / 9	4	1	2	7	5.4										
0 / 4	3	0	1	4	0.3										
-5 / -1	1	0	0	1	-3.8										
-10 / -6	1	0	0	1	-8.4										
-15 / -11	0			0	-12.5										
-20 / -16	0			0	-16.7										
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															

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.

WHITEHORSE CN WMO No. 719640

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)
85 / 89		0	0	0	60.8		0	0	0	62.3					
80 / 84		3	3	6	58.5		5	5	10	59.9					
75 / 79		12	11	23	57.6		9	7	16	57.9		0	0	0	58.0
70 / 74		29	24	53	55.5	0	18	12	30	55.8		1	1	2	54.5
65 / 69	0	36	28	64	53.9	1	23	17	41	53.7		4	2	6	52.7
60 / 64	6	67	56	129	52.1	4	54	40	98	51.4	0	14	8	22	50.3
55 / 59	34	62	67	163	50.0	22	65	61	148	49.1	4	37	24	65	47.4
50 / 54	96	31	48	175	47.4	63	47	60	170	46.9	17	63	49	128	44.7
45 / 49	84	7	12	103	43.7	84	20	32	136	43.7	46	61	70	176	41.7
40 / 44	21	0	0	21	39.4	39	5	8	52	39.8	53	30	39	122	38.5
35 / 39	7		0	7	35.8	27	2	4	33	35.9	56	19	28	103	34.9
30 / 34	0		0	0	31.2	8	1	1	10	31.1	37	8	14	59	30.0
25 / 29						0		0	0	27.2	23	3	5	31	25.5
20 / 24											3	0	1	4	20.8
15 / 19											1	0	0	1	16.6
10 / 14											0	0	0	0	11.5
5 / 9											0	0	0	0	6.0
0 / 4											0			0	-0.6
-5 / -1											0			0	-1.0
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															

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.

WHITEHORSE CN WMO No. 719640

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)
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64		0	0	0	50.0										
55 / 59	0	2	1	3	47.0										
50 / 54	2	11	5	18	43.6										
45 / 49	10	30	19	59	39.9	0	1	0	1	39.6		0	0	0	37.0
40 / 44	18	37	30	85	37.1	2	3	2	7	37.6	1	1	1	3	36.1
35 / 39	56	62	68	186	33.8	11	15	12	38	33.2	6	6	6	18	33.1
30 / 34	68	47	59	173	29.7	23	27	29	79	28.9	17	21	19	57	28.7
25 / 29	44	25	31	100	24.9	34	34	36	104	24.7	30	30	32	92	24.5
20 / 24	17	12	13	42	20.4	23	24	22	69	20.4	17	17	19	53	20.4
15 / 19	15	10	9	34	16.4	34	35	36	105	16.1	22	23	23	68	16.1
10 / 14	10	6	6	22	11.2	31	28	27	86	11.3	23	21	21	65	11.0
5 / 9	4	2	4	10	6.5	22	22	21	65	6.0	23	24	22	69	5.9
0 / 4	2	2	1	5	0.5	16	15	16	47	0.7	22	22	22	66	0.6
-5 / -1	1	1	0	2	-3.8	9	8	8	25	-3.8	13	11	13	37	-3.8
-10 / -6	1	0	1	2	-8.3	12	11	11	34	-8.2	16	16	17	49	-8.1
-15 / -11	1	0	0	1	-12.2	7	6	6	19	-12.6	11	14	12	37	-12.8
-20 / -16	0		1	1	-16.8	5	5	5	15	-16.9	13	12	13	38	-16.9
-25 / -21	0			0	-21.6	3	3	5	11	-22.3	11	10	11	32	-22.2
-30 / -26						4	1	3	8	-27.3	8	7	8	23	-27.4
-35 / -31						2	1	0	3	-31.8	5	4	4	13	-32.0
-40 / -36						1	0	0	1	-36.1	5	4	4	13	-36.2
-45 / -41											2	2	2	6	-41.4
-50 / -46											2	1	2	5	-46.0
-55 / -51											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.

WHITEHORSE CN WMO No. 719640

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)
85 / 89		0	1	1	61.4
80 / 84		9	8	17	59.1
75 / 79		29	24	53	57.2
70 / 74	0	68	52	120	55.0
65 / 69	1	91	67	159	52.9
60 / 64	12	209	158	379	50.6
55 / 59	73	279	248	600	48.0
50 / 54	230	284	280	794	45.1
45 / 49	339	244	260	843	41.2
40 / 44	234	167	164	565	37.2
35 / 39	323	239	264	826	33.1
30 / 34	360	231	284	875	28.7
25 / 29	315	201	238	754	24.2
20 / 24	150	117	121	388	19.9
15 / 19	165	140	138	443	15.8
10 / 14	140	117	117	374	10.9
5 / 9	110	104	101	315	5.8
0 / 4	101	86	87	274	0.5
-5 / -1	62	51	51	164	-3.8
-10 / -6	75	65	69	209	-8.2
-15 / -11	49	45	43	137	-12.8
-20 / -16	54	43	44	141	-17.0
-25 / -21	39	34	38	111	-22.2
-30 / -26	34	24	27	85	-27.5
-35 / -31	20	14	14	48	-31.9
-40 / -36	16	13	12	41	-36.4
-45 / -41	11	9	8	28	-41.8
-50 / -46	7	4	4	15	-46.8
-55 / -51	1	1	0	2	-51.2

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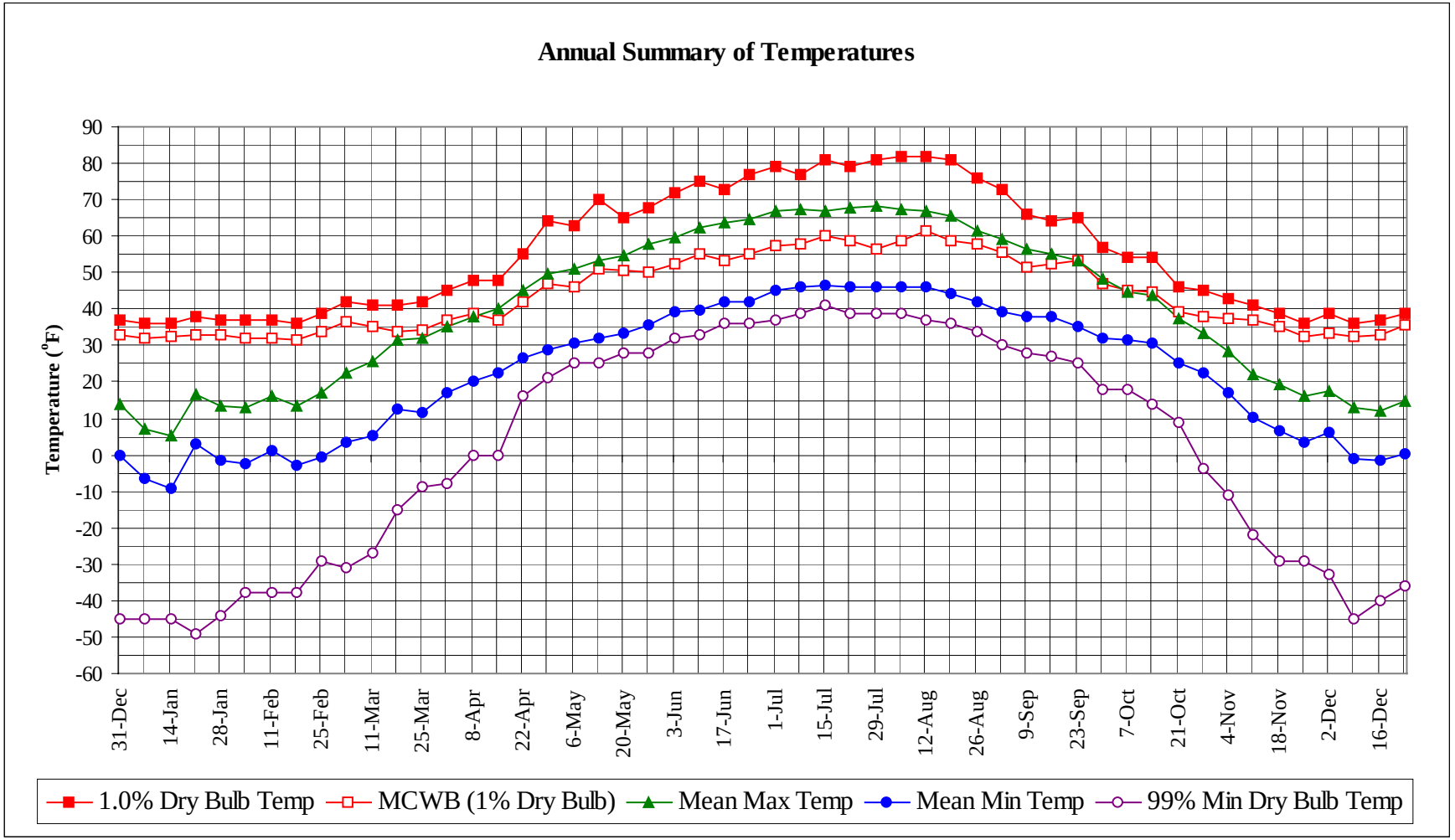
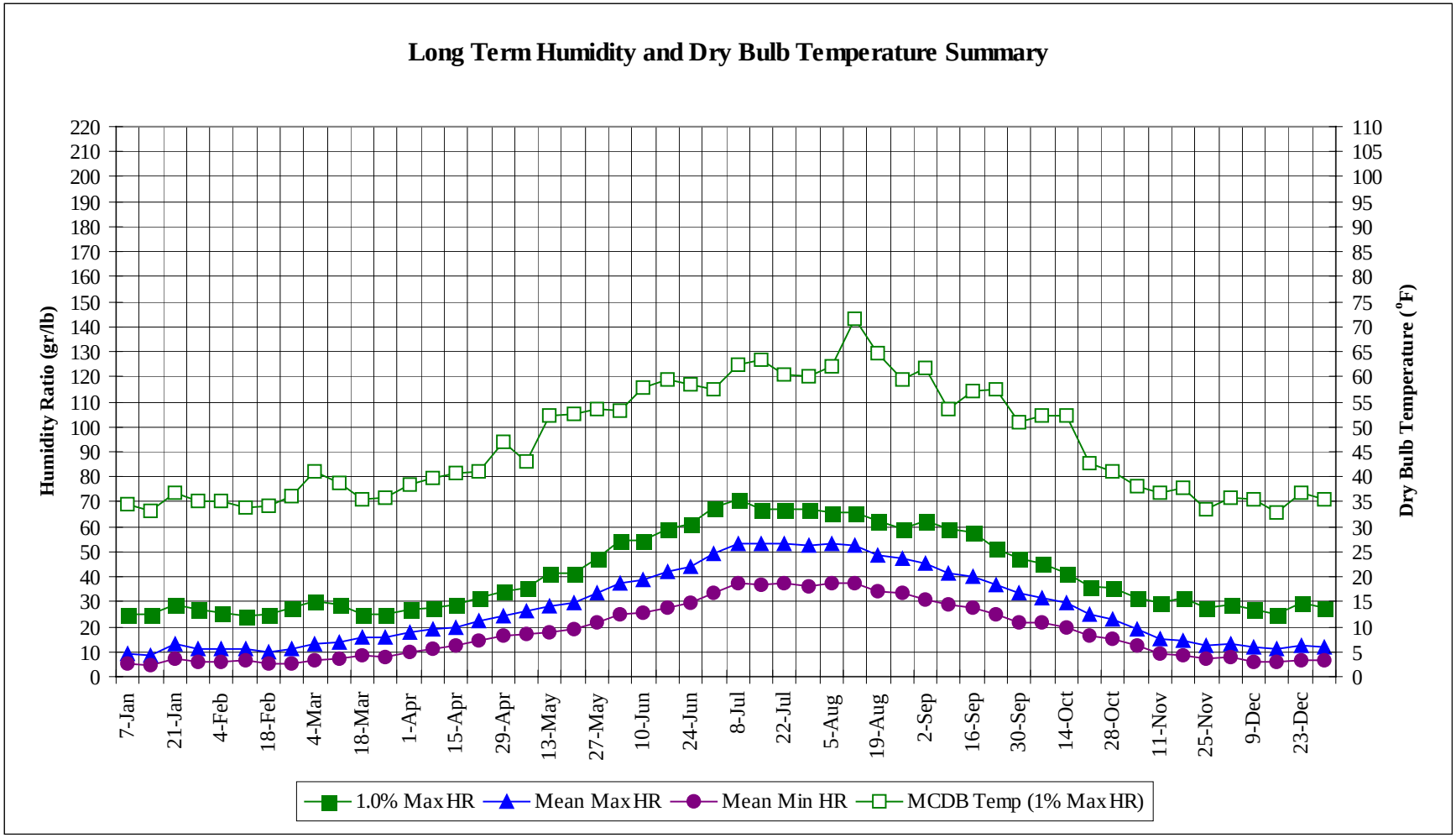
WHITEHORSE CN WMO No. 719640



WHITEHORSE CN WMO No. 719640

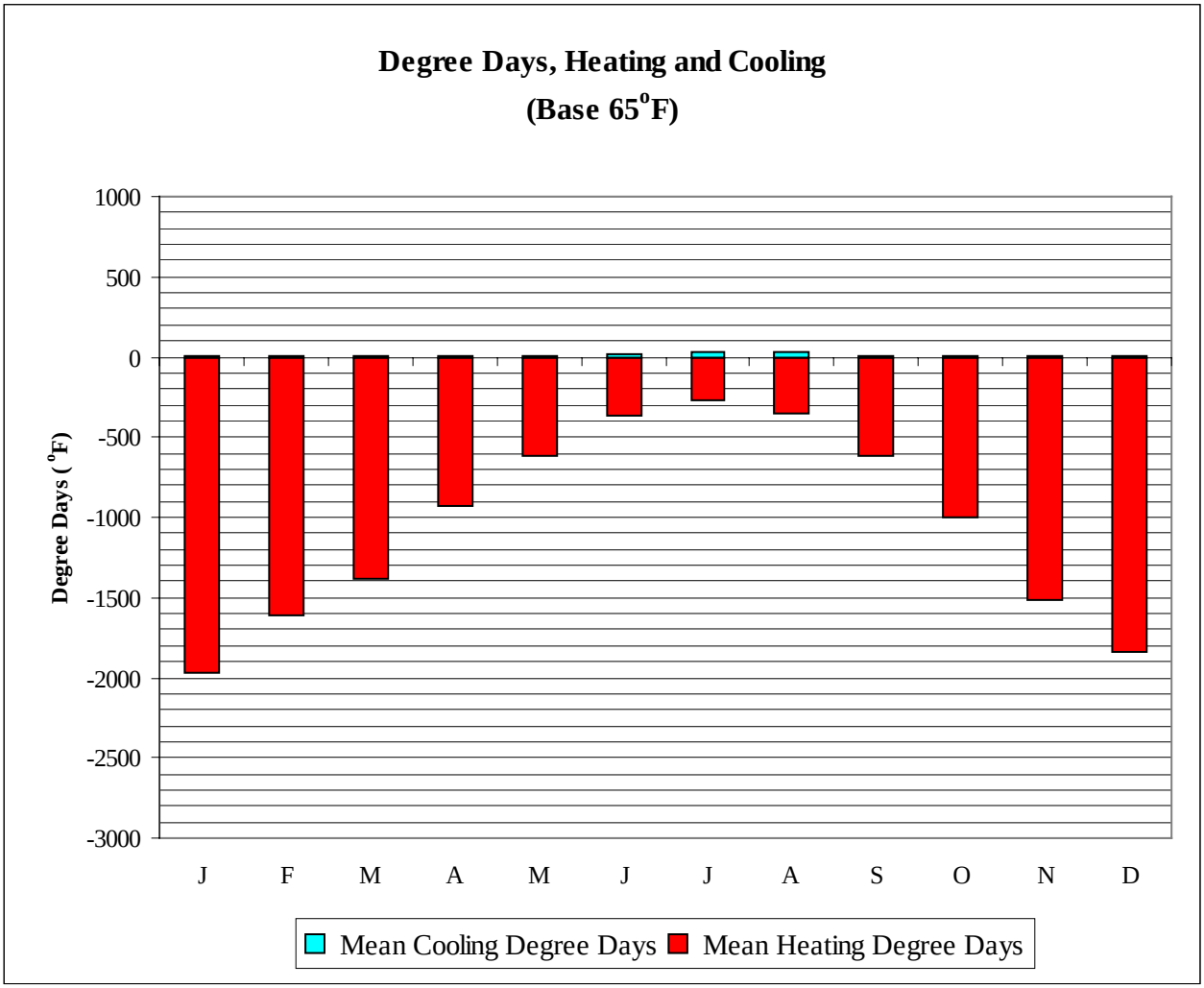


WHITEHORSE CN WMO No. 719640

Long Term Dry Bulb Temperature and Humidity Summary

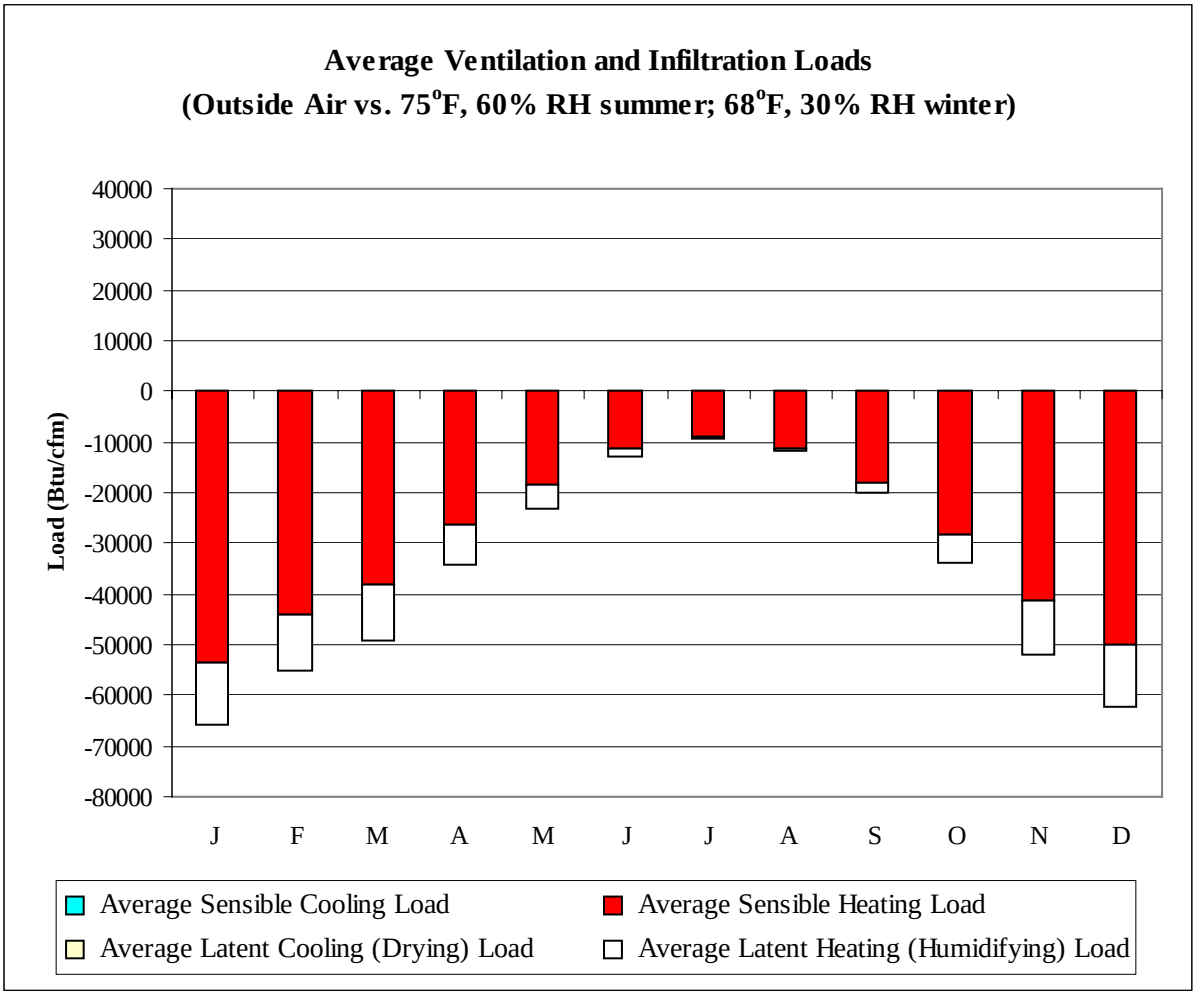
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	36.0	32.0	6.9	-6.4	-45.0	25.2	34.6	8.9	5.1
14-Jan	36.0	32.4	5.2	-9.0	-45.0	25.2	33.1	8.5	4.7
21-Jan	38.0	33.0	16.5	3.1	-49.0	28.7	36.9	12.8	7.4
28-Jan	37.0	33.0	13.5	-1.7	-44.0	26.6	35.0	11.2	5.8
4-Feb	37.0	32.0	12.8	-2.4	-38.0	25.9	35.1	11.0	5.9
11-Feb	37.0	32.2	16.3	1.0	-38.0	24.5	33.7	11.4	6.2
18-Feb	36.0	31.4	13.4	-2.7	-38.0	25.2	34.2	9.6	5.1
25-Feb	39.0	33.8	17.0	-0.5	-29.0	27.3	36.0	10.9	5.4
4-Mar	42.0	36.5	22.5	3.4	-31.0	30.1	41.1	12.8	6.6
11-Mar	41.0	35.0	25.9	5.3	-27.0	28.7	38.9	13.7	6.9
18-Mar	41.0	34.0	31.5	12.5	-15.0	25.2	35.5	15.9	8.8
25-Mar	42.0	34.4	32.1	11.6	-9.0	25.2	35.8	15.5	8.0
1-Apr	45.0	36.8	35.0	16.9	-8.0	26.6	38.5	17.7	10.0
8-Apr	48.0	38.6	38.0	20.4	0.0	27.3	39.7	18.9	11.2
15-Apr	48.0	37.1	40.0	22.4	0.0	28.7	40.7	19.8	12.3
22-Apr	55.0	41.8	45.0	26.5	16.0	31.5	40.9	22.3	14.4
29-Apr	64.0	46.9	49.8	29.0	21.0	34.3	46.9	24.5	16.2
6-May	63.0	45.9	51.1	30.7	25.0	35.7	43.0	26.2	17.0
13-May	70.0	51.1	53.1	31.8	25.0	41.3	52.2	28.0	17.6
20-May	65.0	50.7	54.7	33.5	28.0	41.3	52.5	29.8	18.9
27-May	68.0	50.3	57.9	35.6	28.0	47.6	53.7	33.4	21.4
3-Jun	72.0	52.3	59.8	39.2	32.0	54.6	53.3	37.7	24.7
10-Jun	75.0	55.1	62.1	39.8	33.0	54.6	57.6	39.0	25.4
17-Jun	73.0	53.4	63.7	41.8	36.0	58.8	59.4	42.0	27.7
24-Jun	77.0	55.2	64.5	42.1	36.0	60.9	58.4	44.1	29.7
1-Jul	79.0	57.6	66.7	44.9	37.0	67.9	57.5	49.0	33.5
8-Jul	77.0	57.7	67.2	46.1	39.0	70.7	62.4	53.3	37.5
15-Jul	81.0	60.3	66.9	46.7	41.0	67.2	63.2	53.2	36.7
22-Jul	79.0	58.6	67.7	46.2	39.0	67.2	60.6	53.2	37.2
29-Jul	81.0	56.5	68.3	46.2	39.0	67.2	60.2	52.4	36.2
5-Aug	82.0	58.6	67.2	46.3	39.0	65.8	62.1	52.9	37.4
12-Aug	82.0	61.2	67.1	46.0	37.0	65.8	71.7	52.7	37.4
19-Aug	81.0	58.5	65.5	44.1	36.0	62.3	64.6	48.9	34.1
26-Aug	76.0	58.0	61.3	42.0	34.0	58.8	59.3	47.5	33.4
2-Sep	73.0	55.5	59.2	39.5	30.0	62.3	61.7	45.2	31.1
9-Sep	66.0	51.6	56.6	38.0	28.0	58.8	53.5	41.3	29.1
16-Sep	64.0	52.5	55.1	37.8	27.0	58.1	57.3	40.0	27.8
23-Sep	65.0	53.5	53.1	35.4	25.0	51.1	57.5	36.8	24.7
30-Sep	57.0	46.8	48.2	32.0	18.0	47.6	50.9	33.3	21.8
7-Oct	54.0	45.2	44.9	31.5	18.0	45.5	52.1	31.6	21.8
14-Oct	54.0	44.8	43.8	30.7	14.0	41.3	52.1	29.4	19.8
21-Oct	46.0	39.2	37.3	25.4	9.0	36.4	42.8	25.2	16.6
28-Oct	45.0	38.0	33.5	22.6	-4.0	35.7	40.9	23.0	15.4
4-Nov	43.0	37.3	28.5	16.9	-11.0	31.5	37.9	19.3	12.2
11-Nov	41.0	37.0	22.0	10.1	-22.0	29.4	36.8	15.3	9.3
18-Nov	39.0	35.0	19.1	6.5	-29.0	31.5	37.6	14.2	8.3
25-Nov	36.0	32.6	16.0	3.4	-29.0	27.3	33.6	12.5	7.3
2-Dec	39.0	33.5	17.3	6.1	-33.0	28.7	35.7	13.4	8.1
9-Dec	36.0	32.3	12.8	-1.0	-45.0	26.6	35.5	11.6	6.1
16-Dec	37.0	32.9	12.3	-1.7	-40.0	25.2	33.0	11.0	5.9
23-Dec	39.0	35.7	14.8	0.5	-36.0	29.4	36.7	12.6	6.7
31-Dec	37.0	33.0	14.0	-0.3	-45.0	27.3	35.6	11.8	6.5

WHITEHORSE CN WMO No. 719640



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1968
FEB	0	1612
MAR	0	1383
APR	0	925
MAY	2	616
JUN	18	360
JUL	34	269
AUG	25	359
SEP	1	612
OCT	0	998
NOV	0	1510
DEC	0	1842
ANN	81	12454

WHITEHORSE CN WMO No. 719640



	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	-53426	0	-12252
FEB	0	-43970	0	-11035
MAR	0	-38257	0	-10894
APR	0	-26313	0	-7740
MAY	3	-18336	0	-4701
JUN	36	-11434	0	-1384
JUL	86	-8999	0	-155
AUG	99	-11447	0	-308
SEP	0	-18170	0	-1985
OCT	0	-28283	0	-5725
NOV	0	-41479	0	-10337
DEC	0	-50159	0	-11894
ANN	224	-350273	0	-78410

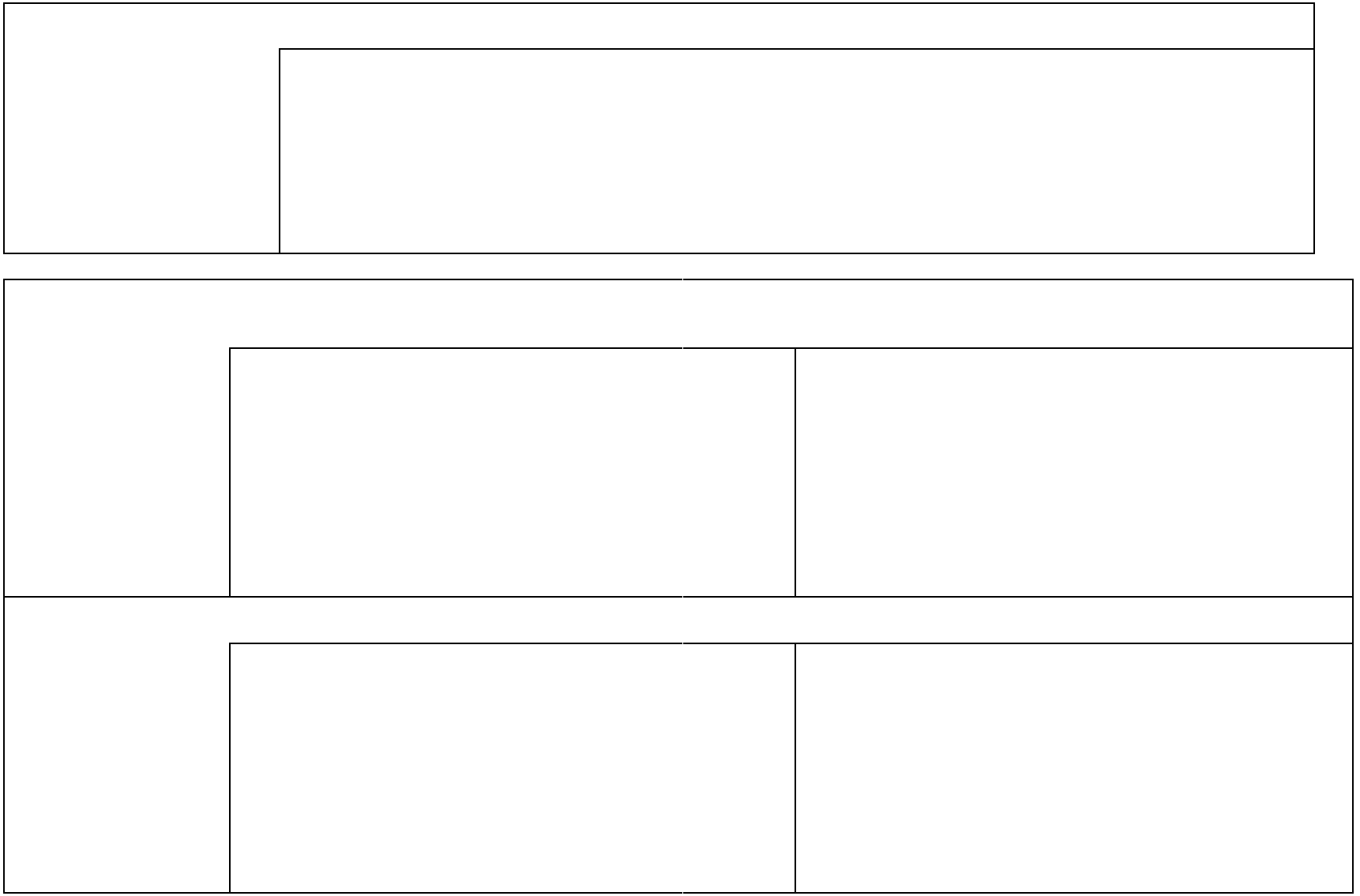
Average Annual Solar Radiation – Nearest Available Site

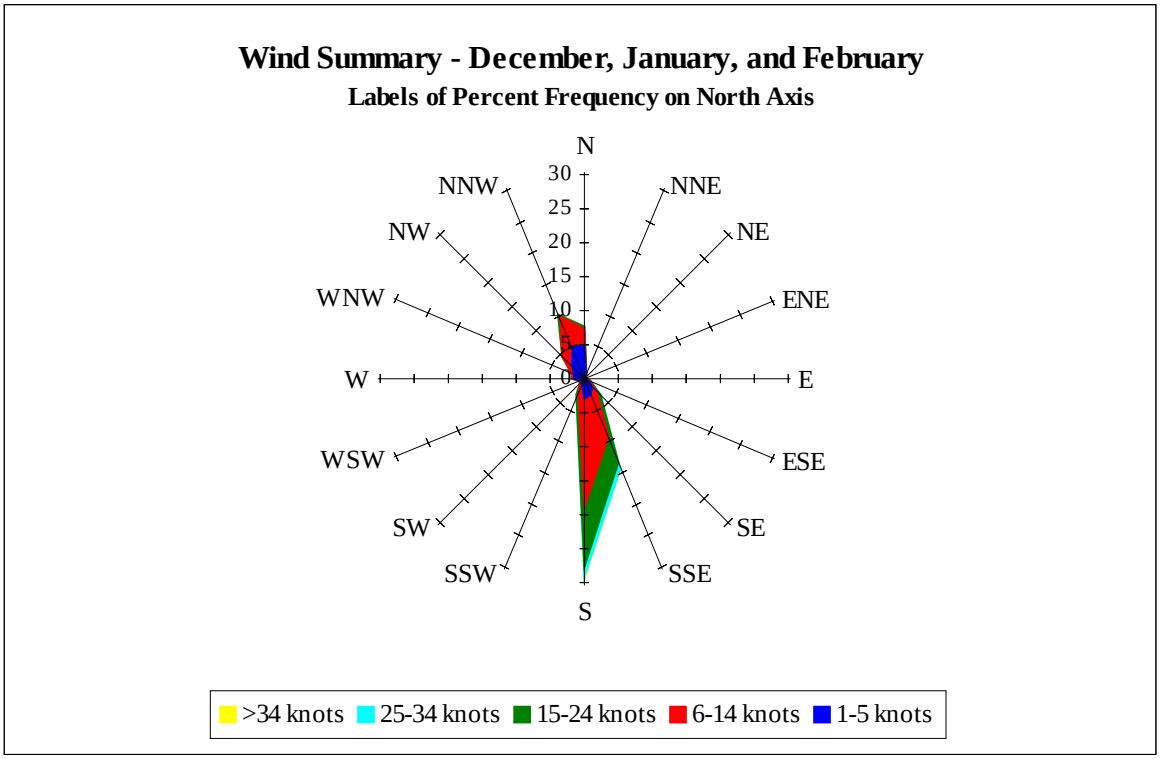
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

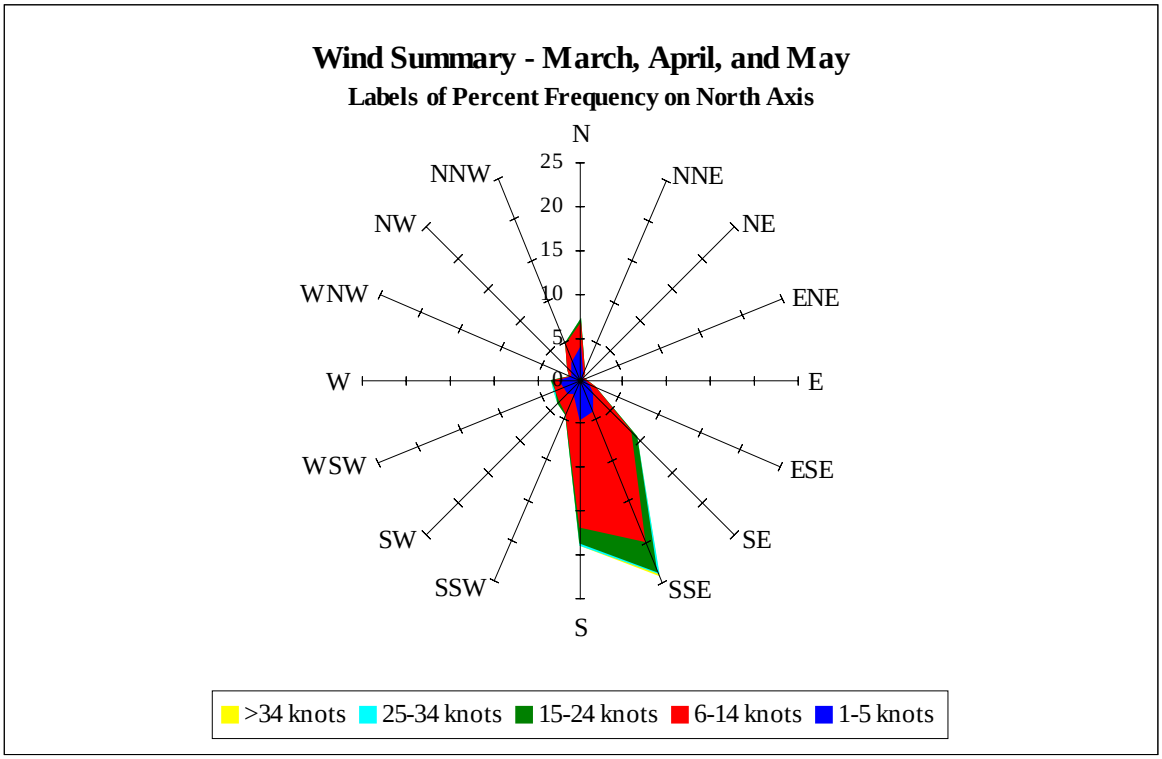
Average Annual Solar Heat and Illumination – Nearest Available Site

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

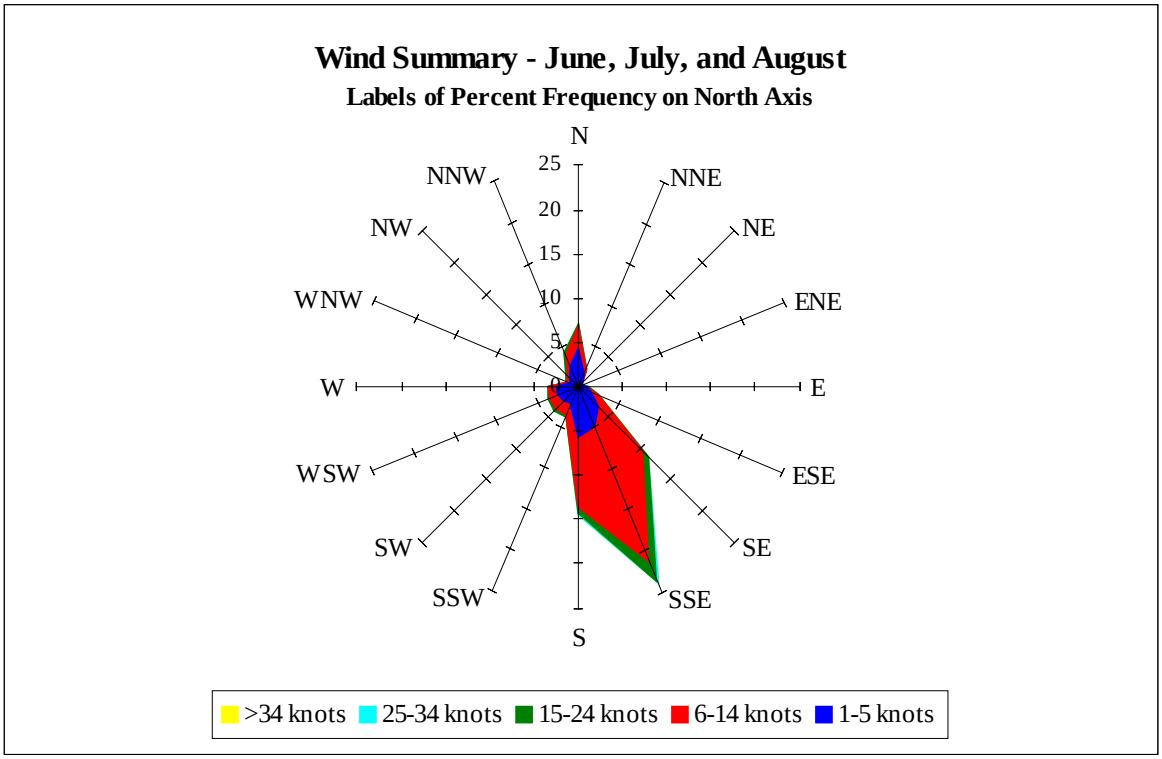




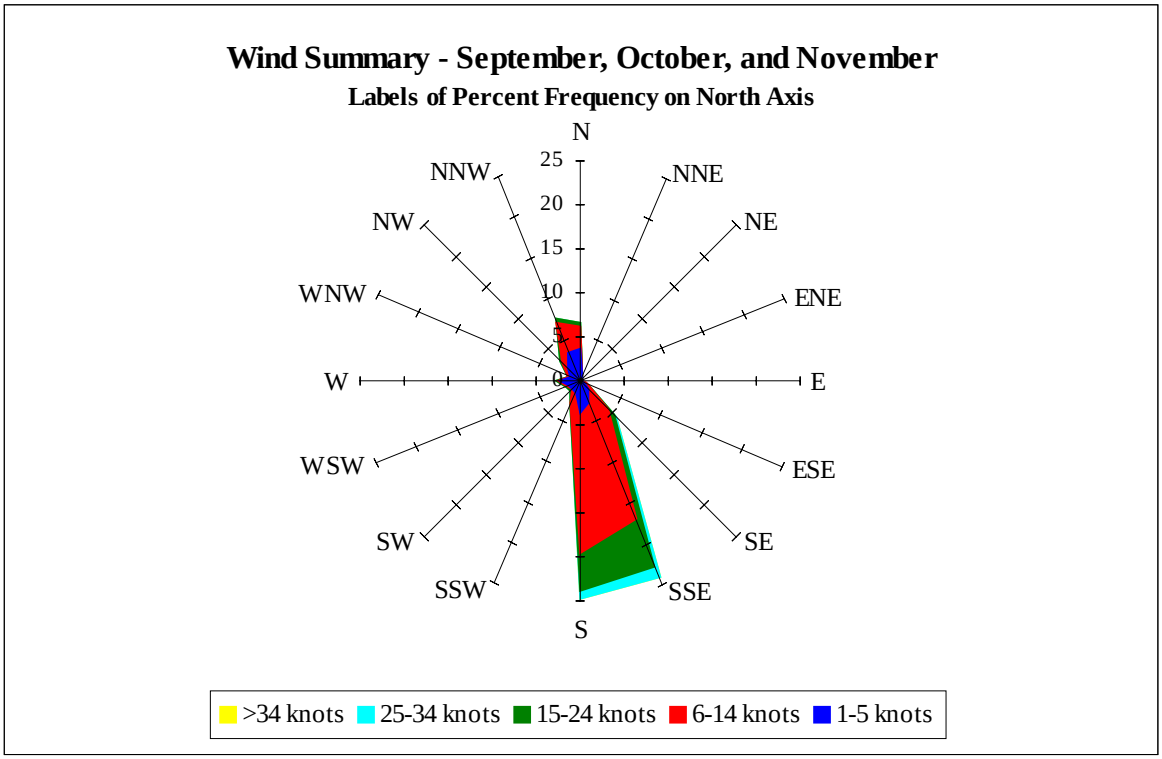
Percent Calm = 21.29



Percent Calm = 14.65



Percent Calm = 14.95



Percent Calm = 15.43