BURNS OR	
Latitude = 43.58 N	WMO No. 726830
Longitude =118.90 W	Elevation = 4170 feet
Period of Record = 1973 to 1996	Average Pressure = 25.77 inches Hg

Design Criteria Data

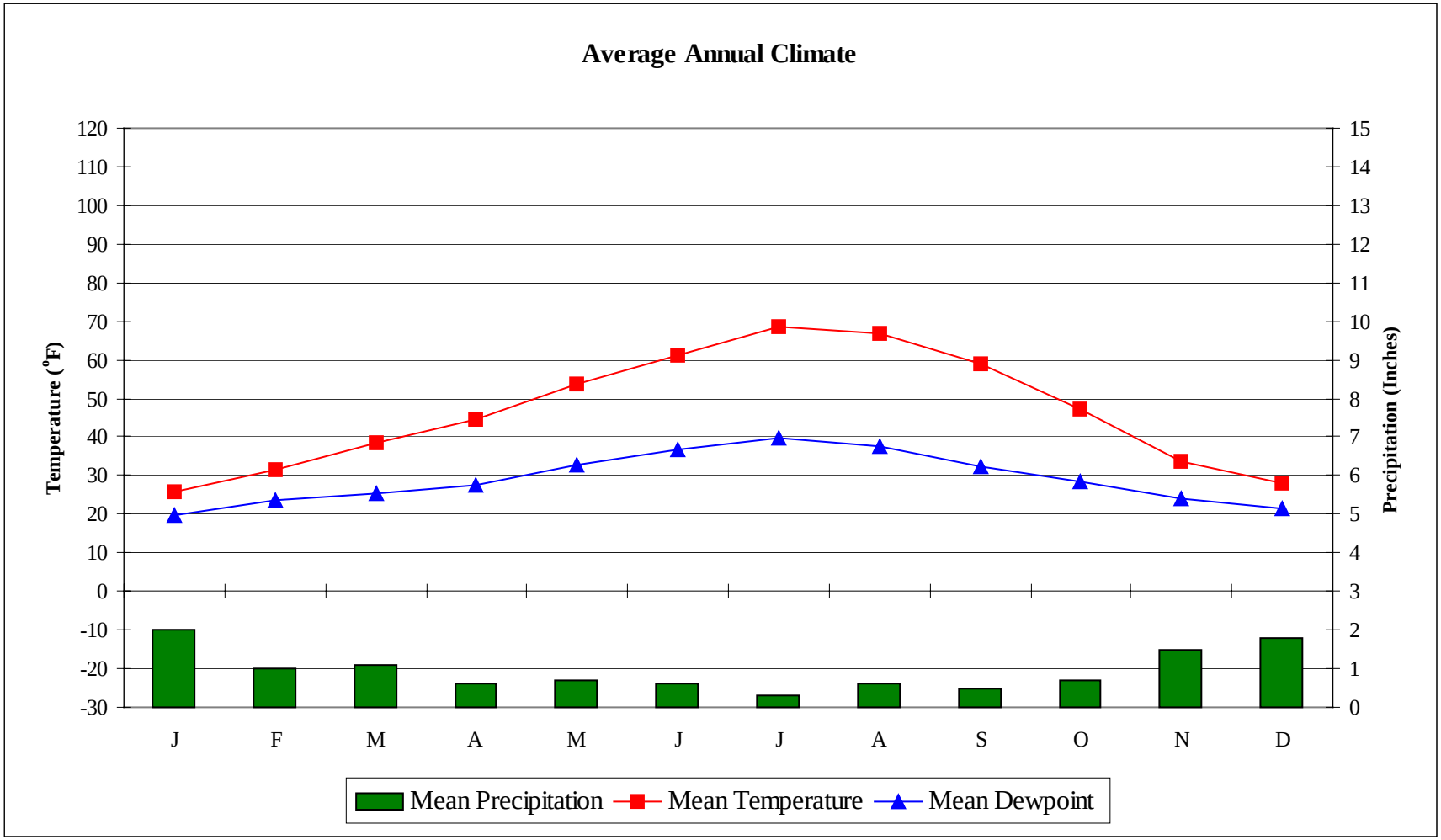
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	95	61	37	7.1	S
0.4% Occurrence	92	60	39	7.6	W
1.0% Occurrence	89	60	41	7.9	W
2.0% Occurrence	86	58	40	7.8	W
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	12	11	9	4.1	NW
99.0% Occurrence	6	5	7	3.5	NW
99.6% Occurrence	-1	-2	4	3.3	N
Median of Extreme Lows	-2	-3	4	3.0	WNW
		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	64	86	64	7.2	E
0.4% Occurrence	63	85	60	7.5	E
1.0% Occurrence	61	84	53	7.4	E
2.0% Occurrence	60	83	51	7.4	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	69	0.47	6.5	NNW
0.4% Occurrence	72	68	0.42	6.4	E
1.0% Occurrence	67	67	0.39	6.0	E
2.0% Occurrence	60	66	0.35	6.4	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	29	534	0	4

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
6	1.0	85	0.0 + 0.4
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 (#)
49.2	N/A	23	83

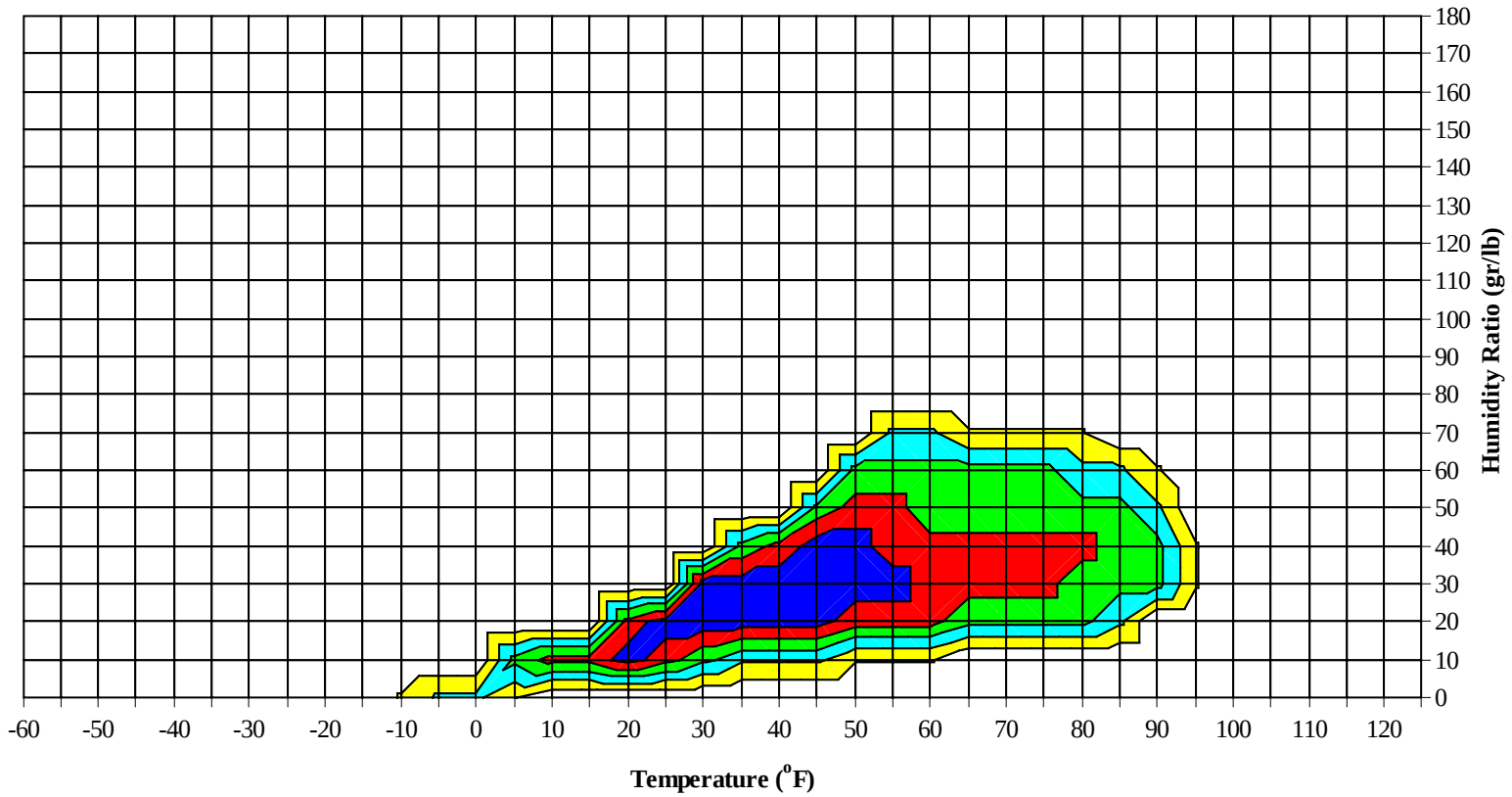
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

BURNS OR WMO No. 726830



BURNS OR WMO No. 726830

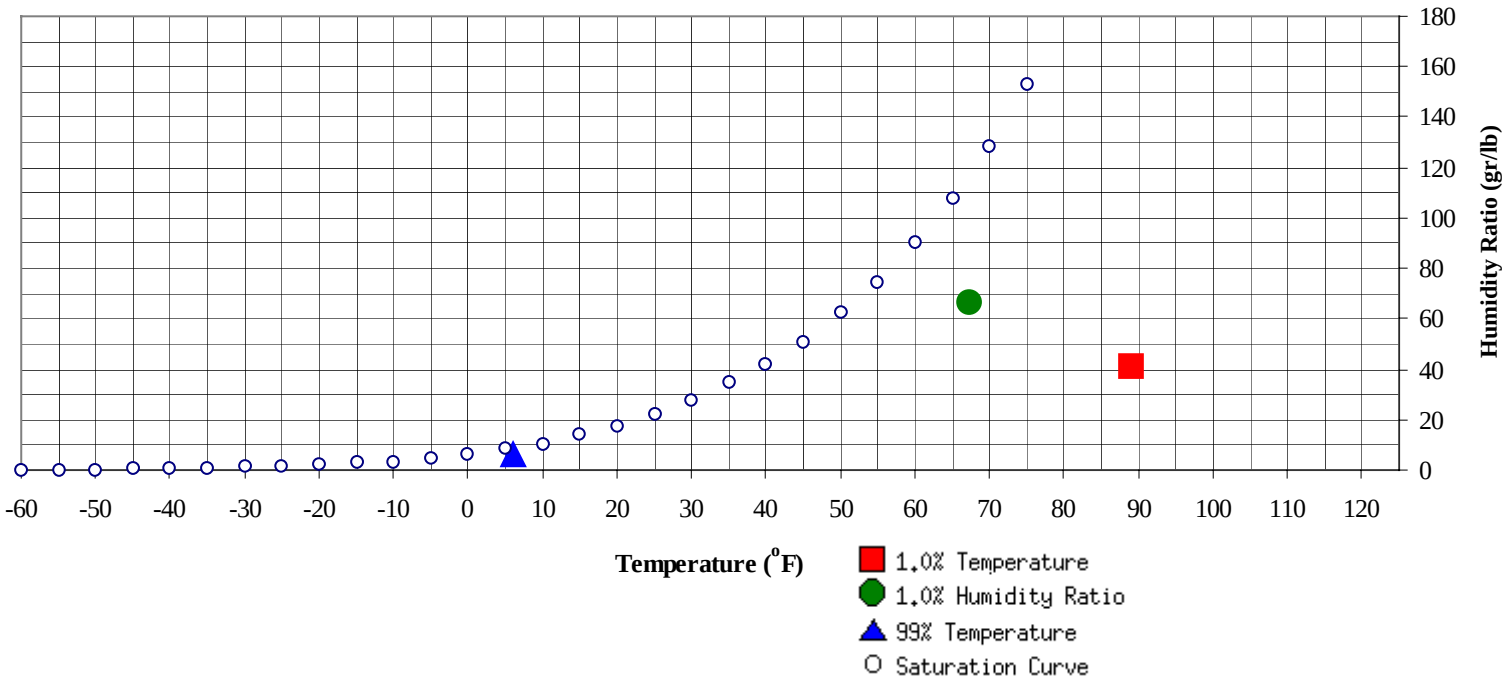
Long Term Psychrometric Summary



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

BURNS OR WMO No. 726830

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	6	6.4	2.4

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	66.5	67.3	57.6	51.9	26.5

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	89	41.6	59.7	27.9

BURNS OR WMO No. 726830

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)
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74												1	0	1	47.8
65 / 69							0	0	0	47.4		4	1	5	47.3
60 / 64							3	0	3	46.5		11	4	15	45.3
55 / 59							4	3	7	43.8		18	11	28	43.4
50 / 54		2	0	2	42.6	0	9	3	12	41.8	0	31	18	48	41.3
45 / 49	0	9	1	11	40.0	0	24	10	34	39.6	3	48	31	82	38.7
40 / 44	3	22	7	32	37.0	2	40	29	71	36.8	15	53	49	116	36.0
35 / 39	17	50	32	99	33.6	25	57	57	138	33.4	47	49	57	152	33.0
30 / 34	42	50	66	158	29.7	59	43	54	156	29.7	68	24	47	140	29.3
25 / 29	42	40	54	135	25.2	57	20	32	109	25.1	67	8	22	97	25.0
20 / 24	44	30	32	106	20.7	34	11	15	60	20.7	32	2	8	42	20.8
15 / 19	36	23	23	83	15.8	18	6	7	31	15.8	9	1	1	11	16.0
10 / 14	27	13	18	58	10.9	13	5	6	23	10.8	5	0	0	5	11.0
5 / 9	16	5	8	29	6.2	6	2	4	12	6.1	0	0	0	0	7.2
0 / 4	10	2	4	17	1.1	2	2	1	5	1.5	0	0	0	0	0.0
-5 / -1	5	1	1	7	-3.4	2	0	1	4	-3.7	0		0	0	-5.0
-10 / -6	4	1	1	6	-7.5	2	0	1	4	-7.6	0			0	-7.5
-15 / -11	2	0	0	2	-11.5	2	0	1	4	-12.1	1			1	-13.3
-20 / -16	0	0		0	-17.0	1		0	1	-16.6					
-25 / -21						0			0	-21.5					

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.

BURNS OR WMO No. 726830

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)
95 / 99												0	0	0	61.2
90 / 94							0		0	59.0		4	3	7	60.5
85 / 89	0			0	58.0		2	1	4	56.5		13	8	21	59.0
80 / 84	0	1	0	1	51.3	0	8	3	10	55.7	0	24	18	42	56.7
75 / 79	0	3	1	4	51.2	0	17	8	26	54.5	1	34	22	57	55.1
70 / 74	0	8	3	11	50.1	0	25	17	42	52.3	3	39	23	65	53.3
65 / 69	0	12	7	19	48.1	2	33	25	60	49.9	10	37	31	79	51.2
60 / 64	0	24	11	34	45.8	6	42	32	80	47.4	19	33	30	81	49.2
55 / 59	2	33	20	55	43.5	16	42	40	97	45.5	34	25	31	91	46.9
50 / 54	3	44	34	80	41.3	31	36	39	106	43.4	47	18	34	98	45.0
45 / 49	21	50	44	115	39.2	53	27	36	116	40.6	56	9	23	88	42.0
40 / 44	42	40	46	128	36.4	60	14	32	105	37.4	37	2	12	51	38.2
35 / 39	58	21	42	121	33.1	49	3	14	66	33.8	23	1	5	29	34.4
30 / 34	60	5	23	88	29.4	24		3	27	29.7	7		1	9	30.1
25 / 29	39	0	8	47	25.0	6		0	6	25.1	2		0	2	26.6
20 / 24	12		1	13	20.9	0			0	21.8					
15 / 19	3		0	3	16.3										
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															

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.

BURNS OR WMO No. 726830

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)
95 / 99		3	1	5	61.0		3	0	3	61.6					
90 / 94		22	12	34	60.4	0	19	8	27	59.5		2	0	2	58.8
85 / 89	0	37	27	64	59.3	0	34	19	52	58.4		13	4	17	57.1
80 / 84	0	46	30	75	57.9	0	44	28	72	56.9	0	34	11	44	55.4
75 / 79	3	47	33	83	56.0	1	42	28	71	55.5	0	34	20	54	54.0
70 / 74	14	39	31	85	54.3	7	40	32	79	53.8	1	37	24	62	52.0
65 / 69	28	26	31	85	52.5	17	26	34	78	51.8	2	37	27	65	50.0
60 / 64	43	17	31	92	50.6	36	22	36	94	50.0	8	33	29	70	47.8
55 / 59	54	9	25	87	47.9	48	12	31	90	47.8	21	27	36	84	45.8
50 / 54	50	2	15	68	45.6	53	5	19	77	45.1	42	16	38	95	43.5
45 / 49	31	0	10	40	41.9	44	1	9	54	41.3	62	8	28	98	40.2
40 / 44	15		1	17	38.6	23	0	4	27	37.1	48	1	11	60	36.3
35 / 39	8		0	8	34.8	14	0	1	16	33.8	34		8	42	32.7
30 / 34	1			1	30.8	3	0		3	29.4	13		3	16	29.1
25 / 29	0			0	28.0	1			1	24.7	7		1	9	24.1
20 / 24											1			1	20.0
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															

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.

BURNS OR WMO No. 726830

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)				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)
95 / 99															
90 / 94															
85 / 89		0		0	56.0										
80 / 84		5	0	5	54.3										
75 / 79		11	3	13	52.5										
70 / 74	0	17	6	23	51.0		0		0	49.0					
65 / 69	0	25	11	36	48.7		2		2	50.3	0			0	43.0
60 / 64	0	37	17	54	46.4		6	0	6	48.0	0	0		0	48.0
55 / 59	3	40	24	67	44.3		12	3	15	45.3	0	1		1	46.1
50 / 54	9	40	33	82	42.3	2	22	8	32	43.3	0	3	0	3	44.0
45 / 49	21	35	40	96	39.8	6	36	17	60	40.5	1	10	4	15	40.6
40 / 44	46	24	47	117	36.8	11	40	32	83	37.1	7	26	10	43	36.9
35 / 39	58	9	33	100	32.9	31	51	42	124	33.5	24	57	35	117	33.6
30 / 34	57	3	18	78	28.7	59	39	54	152	29.4	43	60	61	164	29.8
25 / 29	36	1	11	47	24.8	49	19	41	109	24.9	49	45	49	143	25.2
20 / 24	14	1	3	17	20.4	32	10	18	60	20.2	43	25	41	109	20.7
15 / 19	4	0	1	6	16.4	22	4	15	40	15.7	36	12	26	74	16.2
10 / 14	1	0	0	1	11.9	13	1	5	19	10.9	23	5	11	39	11.2
5 / 9	0	0	1	1	7.5	9	0	4	13	5.8	12	2	7	21	6.5
0 / 4	0			0	1.0	3	0	0	3	1.3	5	1	3	9	1.4
-5 / -1	0			0	-1.7	1	0	1	2	-3.3	2	1	1	4	-2.9
-10 / -6						1		0	1	-7.5	1	0	0	1	-7.6
-15 / -11						0			0	-11.3	1			1	-11.3
-20 / -16															
-25 / -21															

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.

BURNS OR WMO No. 726830

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

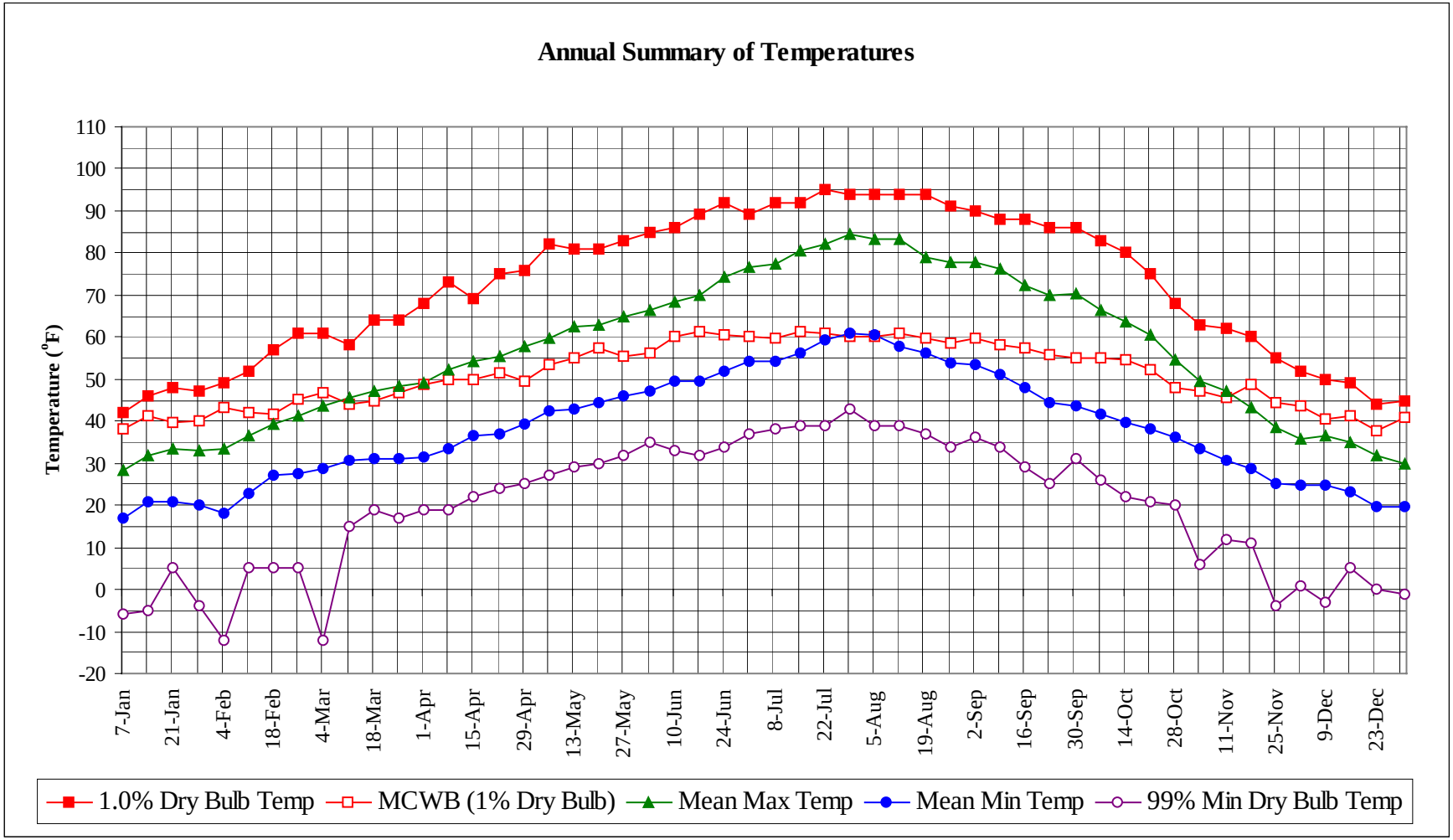
Period of Record = 1973 to 1996

Annual Totals

Temperature Range (°F)	Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
95 / 99		6	1	8	61.2
90 / 94	0	47	23	70	60.0
85 / 89	0	100	59	159	58.7
80 / 84	1	161	90	253	56.8
75 / 79	5	189	115	309	55.0
70 / 74	26	205	136	368	53.0
65 / 69	60	201	169	430	50.7
60 / 64	113	226	190	530	48.4
55 / 59	181	221	219	620	45.9
50 / 54	241	226	238	705	43.4
45 / 49	300	258	253	811	40.2
40 / 44	305	261	277	843	36.8
35 / 39	385	300	324	1009	33.4
30 / 34	433	224	330	987	29.5
25 / 29	354	133	217	704	25.1
20 / 24	212	76	119	406	20.6
15 / 19	129	46	73	247	15.9
10 / 14	83	24	41	148	11.0
5 / 9	44	10	24	78	6.2
0 / 4	22	5	9	36	1.3
-5 / -1	10	2	7	19	-3.3
-10 / -6	8	1	4	13	-7.6
-15 / -11	6	0	1	8	-11.9
-20 / -16	1	0	0	1	-16.6
-25 / -21	0			0	-21.5

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.

BURNS OR WMO No. 726830



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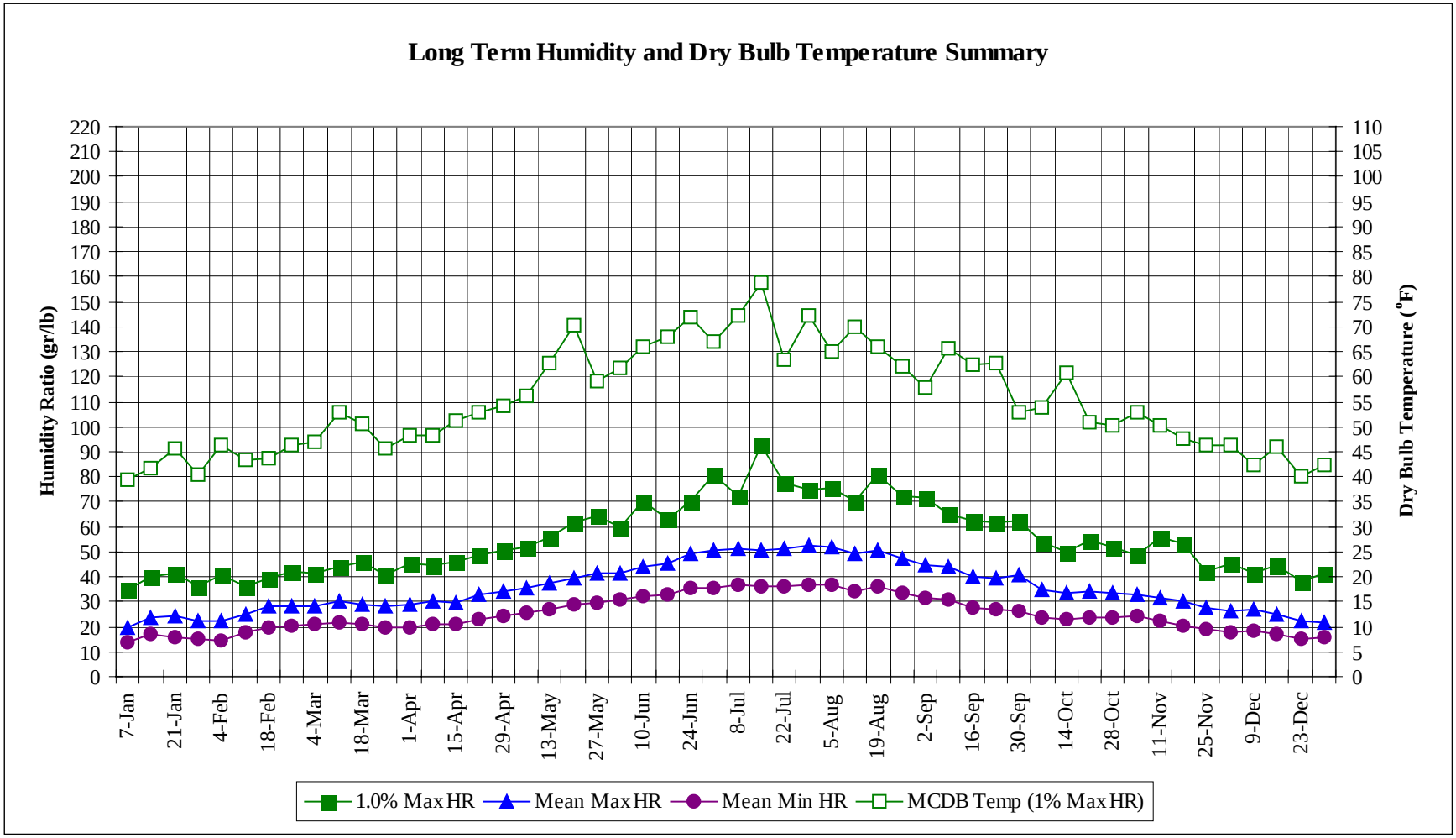
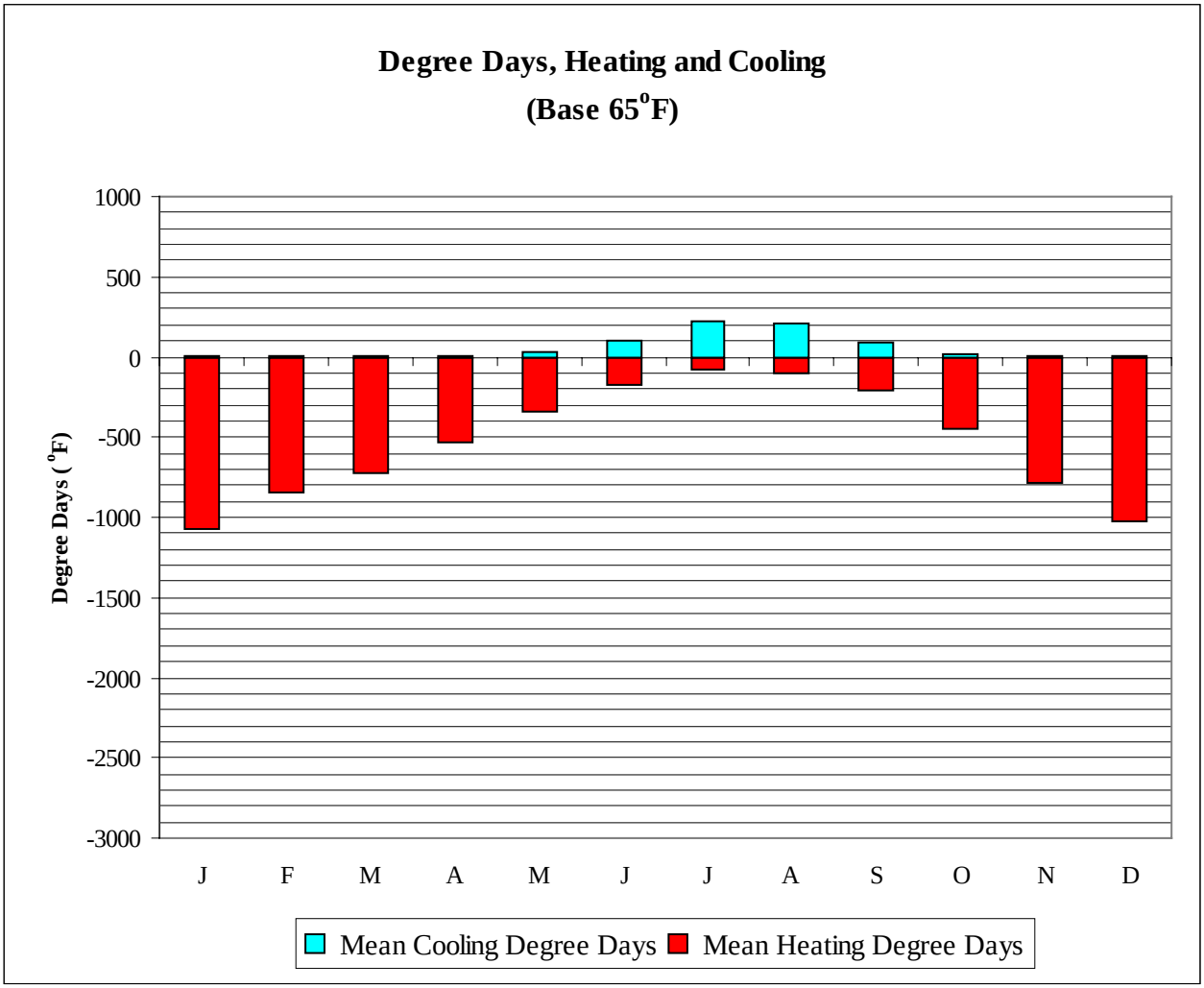


BURNS OR WMO No. 726830

Long Term Dry Bulb Temperature and Humidity Summary

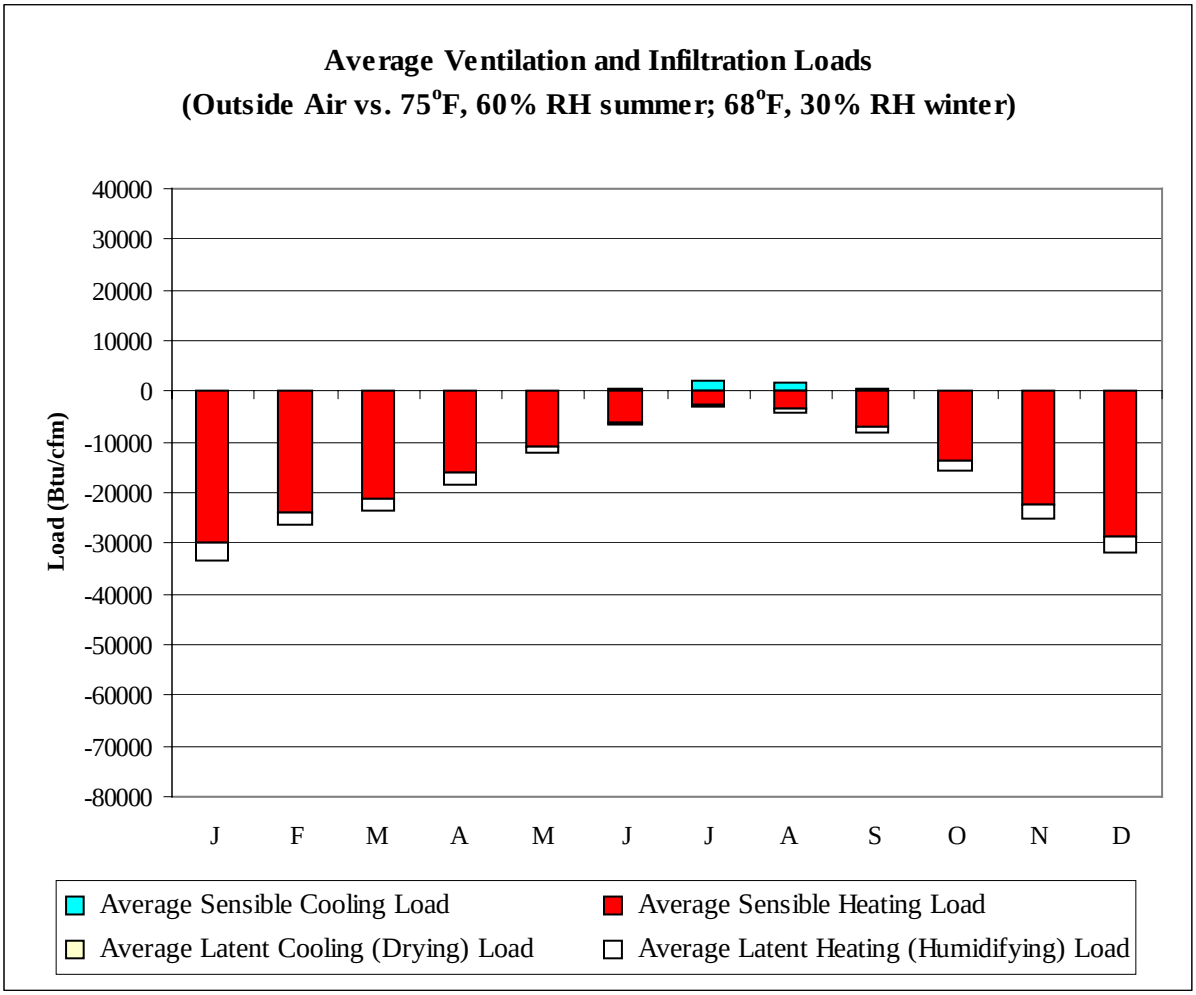
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	42.0	38.2	28.1	17.0	-6.0	35.0	39.4	20.0	13.8
14-Jan	46.0	41.3	31.8	20.9	-5.0	39.9	41.6	23.8	16.9
21-Jan	48.0	39.8	33.4	20.8	5.0	41.3	45.6	24.0	16.0
28-Jan	47.0	40.1	32.8	20.0	-4.0	36.4	40.4	22.2	15.0
4-Feb	49.0	43.2	33.2	18.2	-12.0	40.6	46.2	22.2	14.5
11-Feb	52.0	42.0	36.7	22.9	5.0	36.4	43.3	25.1	17.5
18-Feb	57.0	41.5	39.3	27.0	5.0	39.2	43.7	28.3	19.8
25-Feb	61.0	45.1	41.4	27.6	5.0	42.0	46.2	28.2	20.2
4-Mar	61.0	46.7	43.4	28.5	-12.0	41.3	46.9	28.5	20.7
11-Mar	58.0	44.1	45.6	30.5	15.0	44.1	53.0	30.5	22.0
18-Mar	64.0	44.6	47.2	31.0	19.0	46.2	50.7	29.2	21.0
25-Mar	64.0	46.9	48.4	30.9	17.0	40.6	45.7	28.0	19.8
1-Apr	68.0	48.7	49.0	31.5	19.0	45.5	48.2	28.7	20.0
8-Apr	73.0	50.0	52.1	33.3	19.0	44.8	48.4	29.9	20.9
15-Apr	69.0	50.0	54.4	36.4	22.0	46.2	51.2	29.5	21.0
22-Apr	75.0	51.7	55.5	36.9	24.0	48.3	52.8	32.9	23.1
29-Apr	76.0	49.4	57.7	39.1	25.0	50.4	54.3	34.0	24.5
6-May	82.0	53.3	59.7	42.4	27.0	51.8	56.2	35.6	25.9
13-May	81.0	55.0	62.5	42.9	29.0	56.0	62.6	37.3	26.9
20-May	81.0	57.3	63.0	44.3	30.0	61.6	70.2	39.2	28.9
27-May	83.0	55.5	64.7	45.9	32.0	64.4	59.1	41.5	29.9
3-Jun	85.0	56.0	66.5	47.3	35.0	59.5	61.8	41.6	31.1
10-Jun	86.0	60.0	68.2	49.5	33.0	70.0	66.1	44.1	32.4
17-Jun	89.0	61.3	70.1	49.4	32.0	63.0	68.1	45.4	32.6
24-Jun	92.0	60.5	74.1	52.0	34.0	70.0	71.8	49.0	35.6
1-Jul	89.0	60.0	76.7	54.1	37.0	80.5	67.0	50.4	35.3
8-Jul	92.0	59.9	77.4	54.2	38.0	72.1	72.1	51.2	37.0
15-Jul	92.0	61.4	80.7	56.2	39.0	92.4	78.8	50.3	35.9
22-Jul	95.0	61.0	82.0	59.2	39.0	77.7	63.3	51.2	36.3
29-Jul	94.0	60.1	84.6	61.1	43.0	74.9	72.3	52.8	36.8
5-Aug	94.0	60.2	83.3	60.5	39.0	75.6	65.0	51.7	36.6
12-Aug	94.0	61.0	83.4	57.8	39.0	70.0	69.8	49.1	34.2
19-Aug	94.0	59.8	79.1	56.0	37.0	80.5	65.9	50.7	36.2
26-Aug	91.0	58.6	77.9	53.7	34.0	72.1	62.0	47.5	33.8
2-Sep	90.0	59.8	77.9	53.4	36.0	71.4	57.9	44.5	31.4
9-Sep	88.0	58.3	76.2	51.1	34.0	65.1	65.8	43.8	30.6
16-Sep	88.0	57.3	72.4	47.9	29.0	62.3	62.4	40.2	27.4
23-Sep	86.0	55.8	70.0	44.2	25.0	61.6	62.6	39.6	26.6
30-Sep	86.0	55.1	70.4	43.8	31.0	62.3	53.0	40.5	26.0
7-Oct	83.0	54.8	66.6	41.8	26.0	53.9	53.7	34.6	23.6
14-Oct	80.0	54.7	63.5	39.9	22.0	49.7	60.7	33.5	22.9
21-Oct	75.0	52.1	60.4	38.1	21.0	54.6	50.8	34.3	23.6
28-Oct	68.0	48.0	54.6	36.0	20.0	51.8	50.4	33.8	23.9
4-Nov	63.0	47.0	49.3	33.4	6.0	48.3	52.9	32.8	24.2
11-Nov	62.0	45.8	47.0	30.5	12.0	56.0	50.1	31.5	22.0
18-Nov	60.0	48.8	43.3	28.6	11.0	53.2	47.7	30.4	20.1
25-Nov	55.0	44.6	38.6	25.3	-4.0	42.0	46.2	27.3	18.9
2-Dec	52.0	43.7	35.9	24.6	1.0	45.5	46.2	26.0	18.1
9-Dec	50.0	40.3	36.6	24.7	-3.0	41.3	42.5	26.7	18.7
16-Dec	49.0	41.1	35.0	23.4	5.0	44.8	45.9	25.3	17.3
23-Dec	44.0	37.8	32.0	19.8	0.0	37.8	40.0	22.3	15.1
31-Dec	45.0	40.9	30.0	19.7	-1.0	41.3	42.5	21.7	15.5

BURNS OR WMO No. 726830



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1073
FEB	0	844
MAR	0	726
APR	8	533
MAY	34	340
JUN	104	176
JUL	227	75
AUG	208	96
SEP	89	212
OCT	15	447
NOV	0	782
DEC	0	1027
ANN	685	6331

BURNS OR WMO No. 726830



	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	-29909	0	-3662
FEB	0	-23850	0	-2663
MAR	0	-20989	0	-2634
APR	18	-16030	0	-2235
MAY	150	-10829	0	-1200
JUN	668	-6015	0	-653
JUL	2005	-2811	3	-403
AUG	1814	-3413	0	-647
SEP	543	-7002	0	-1328
OCT	41	-13572	0	-1917
NOV	0	-22260	0	-2717
DEC	0	-28688	0	-3278
ANN	5239	-185368	3	-23337

Average Annual Solar Radiation – Nearest Available Site

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

City: BURNS
State: OR
WBAN No: 94185
Lat(N): 43.58
Long(W): 119.05
Elev(ft): 4170

Stn Type: Primary
SHADING GEOMETRY IN DIMENSIONLESS UNITS
Window: 1
Overhang: 0.637
Vert Gap: 0.33

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	560	830	1200	1660	2040	2250	2380	2060	1610	1070	590	470	1400
	Std Dev	45	83	94	140	126	134	101	155	119	98	69	49	38
	Minimum	480	690	990	1390	1740	2040	2140	1720	1350	910	450	360	1300
	Maximum	640	1020	1400	1960	2270	2560	2550	2310	1810	1270	750	570	1500
	Diffuse	330	440	570	720	770	740	580	520	430	360	320	270	500
Clear Day	Global	790	1150	1670	2240	2630	2780	2690	2360	1850	1290	850	680	1750
NORTH	Global	190	260	350	460	590	690	640	480	350	260	190	160	390
	Diffuse	190	260	350	450	510	540	490	430	350	260	190	160	350
Clear Day	Global	160	210	290	400	600	730	660	470	320	230	160	140	370
EAST	Global	380	550	800	1060	1250	1360	1440	1300	1060	750	410	330	890
	Diffuse	230	320	430	550	620	630	580	520	430	330	240	200	420
Clear Day	Global	660	880	1180	1450	1600	1640	1610	1490	1260	960	690	580	1170
SOUTH	Global	920	1100	1160	1130	1010	940	1040	1210	1420	1390	920	840	1090
	Diffuse	360	430	510	580	590	580	540	510	470	410	340	310	470
Clear Day	Global	1950	2050	1950	1570	1220	1070	1120	1410	1780	2000	1930	1860	1660
WEST	Global	390	550	760	990	1160	1250	1360	1220	1040	730	410	330	850
	Diffuse	240	320	440	560	630	640	590	530	440	330	240	200	430
Clear Day	Global	660	880	1180	1450	1600	1640	1610	1490	1260	960	690	580	1170

Average Annual Solar Heat and Illumination – Nearest Available Site

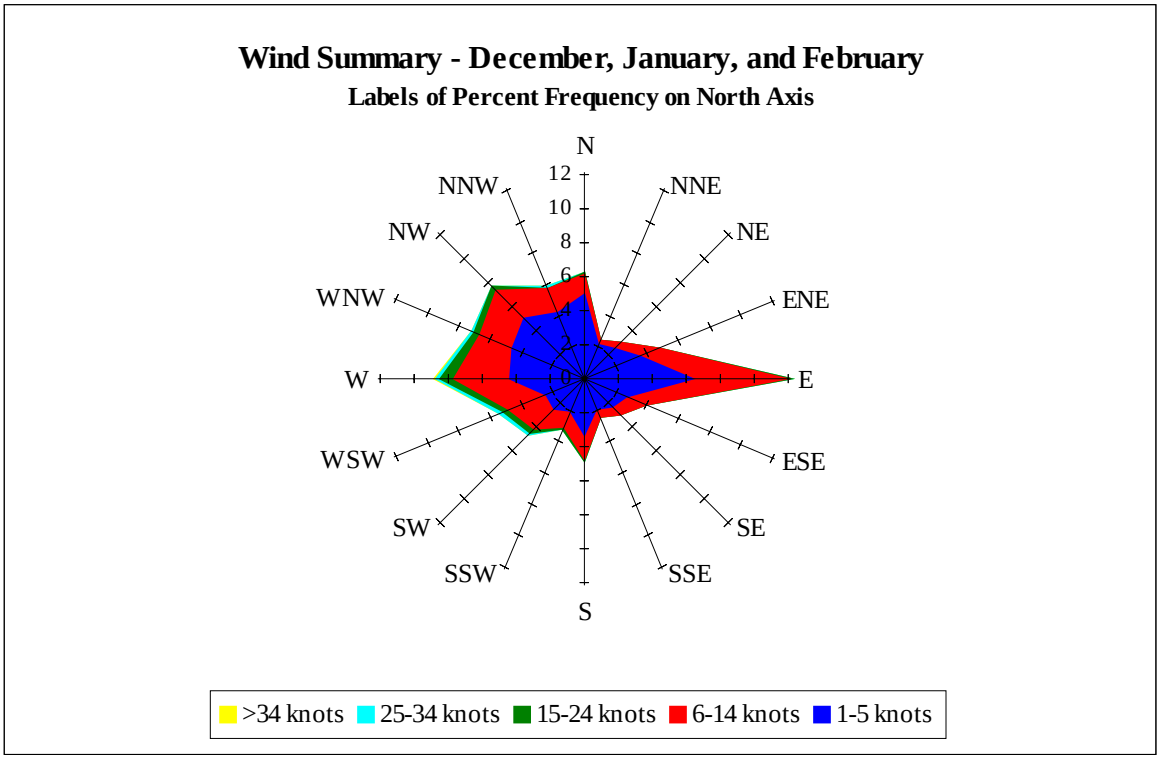
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9

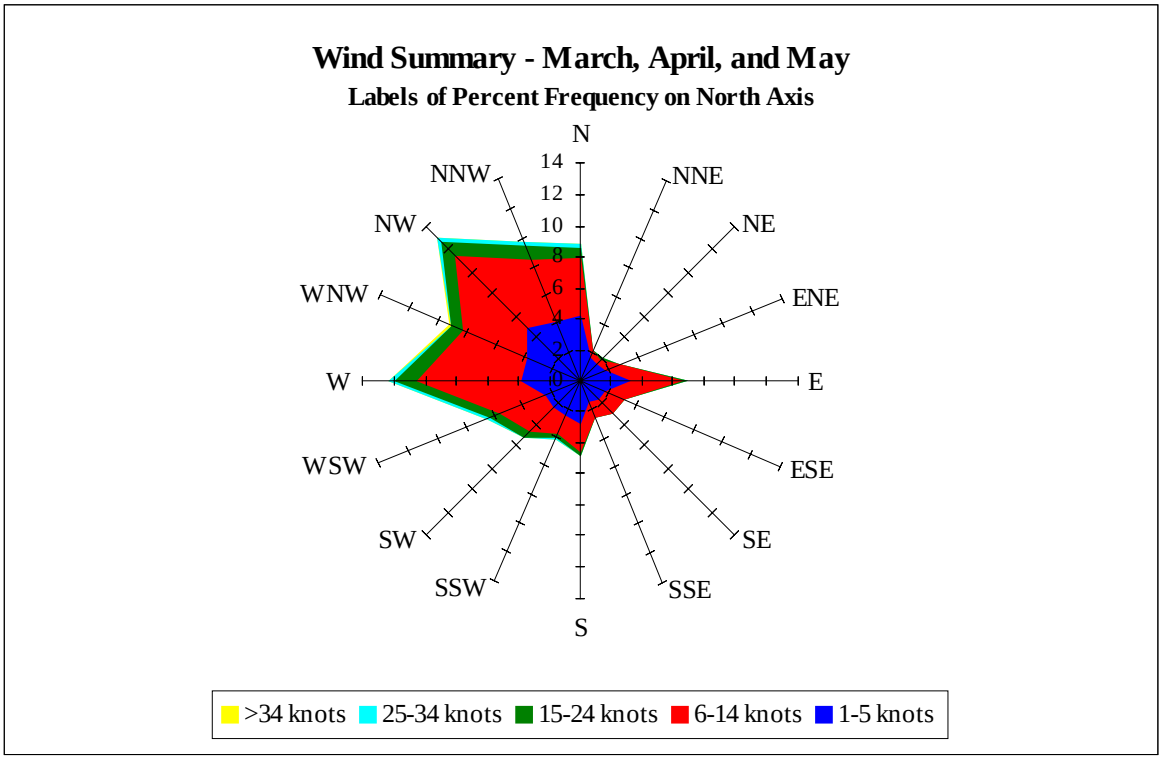
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	360	550	840	1180	1470	1640	1740	1490	1140	730	380	290	990
NORTH	Unshaded	130	180	240	310	390	440	410	310	240	180	130	110	260
	Shaded	110	150	210	270	340	390	360	280	220	160	110	92	220
EAST	Unshaded	260	390	570	760	890	970	1040	930	760	530	280	220	630
	Shaded	230	330	480	630	740	800	850	780	650	460	240	190	530
SOUTH	Unshaded	690	810	820	750	630	570	620	770	970	1010	690	630	750
	Shaded	660	740	620	450	360	350	330	380	640	870	660	610	560
WEST	Unshaded	270	380	540	710	830	890	970	880	740	510	280	220	600
	Shaded	230	330	460	590	680	730	800	730	630	450	250	190	510

AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9

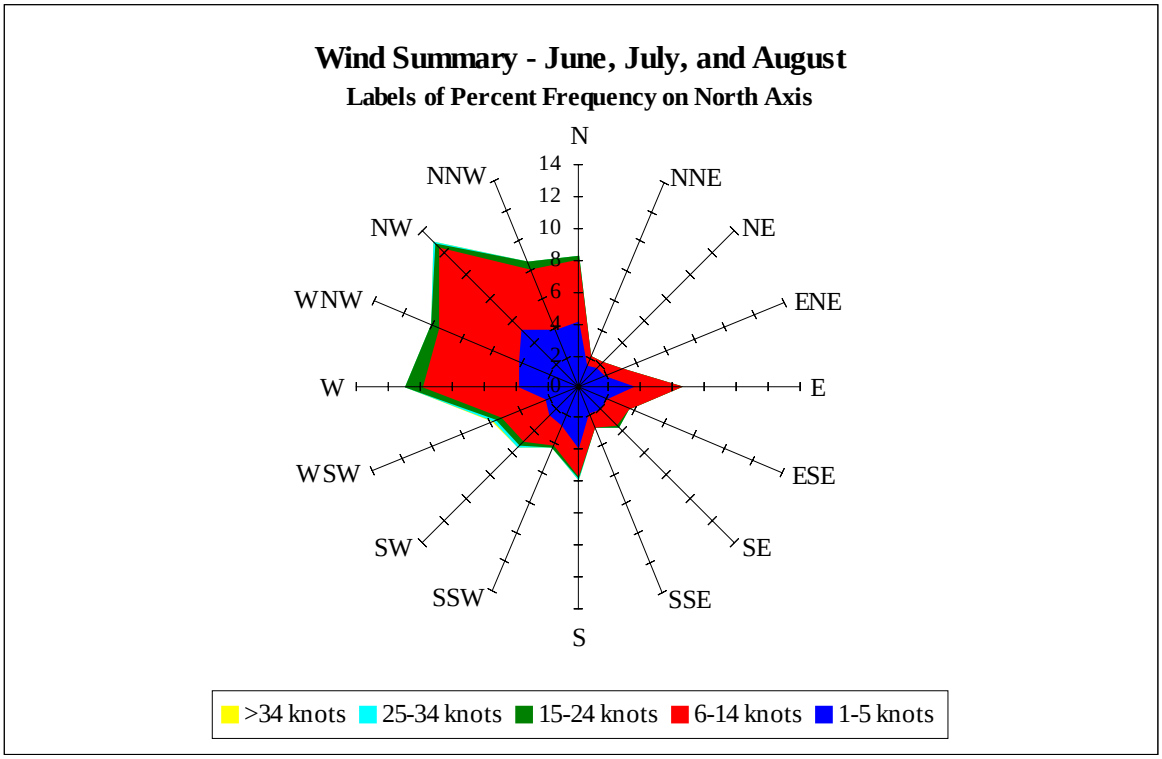
		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	40	69	77	59	23	53	87	101	95	68
	M.Cloudy	26	46	51	40	16	38	63	77	72	47
NORTH	M.Clear	10	13	14	12	7	14	15	16	16	13
	M.Cloudy	10	15	17	14	7	14	17	19	18	15
EAST	M.Clear	76	53	14	12	7	87	72	27	16	13
	M.Cloudy	32	32	17	14	7	48	49	26	18	15
SOUTH	M.Clear	45	78	87	67	26	11	38	53	47	22
	M.Cloudy	22	42	48	36	13	13	30	43	38	19
WEST	M.Clear	10	13	25	68	64	11	15	16	54	83
	M.Cloudy	10	15	21	36	25	13	17	19	42	49
M.Clear	(% hrs)	31	27	24	22	25	52	51	47	39	37
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	31	67	82	74	45	12	35	39	22	0
	M.Cloudy	21	45	59	55	31	8	22	25	14	0
NORTH	M.Clear	8	13	14	13	10	5	9	10	7	0
	M.Cloudy	8	14	17	16	10	4	9	10	6	0
EAST	M.Clear	76	69	24	13	10	37	34	10	7	0
	M.Cloudy	34	40	22	16	10	11	16	10	6	0
SOUTH	M.Clear	26	64	81	71	40	36	78	85	56	0
	M.Cloudy	15	37	54	49	25	11	28	31	19	0
WEST	M.Clear	8	13	14	55	79	5	9	22	44	0
	M.Cloudy	8	14	17	39	43	4	9	14	16	0
M.Clear	(% hrs)	65	65	61	58	57	24	25	26	22	24



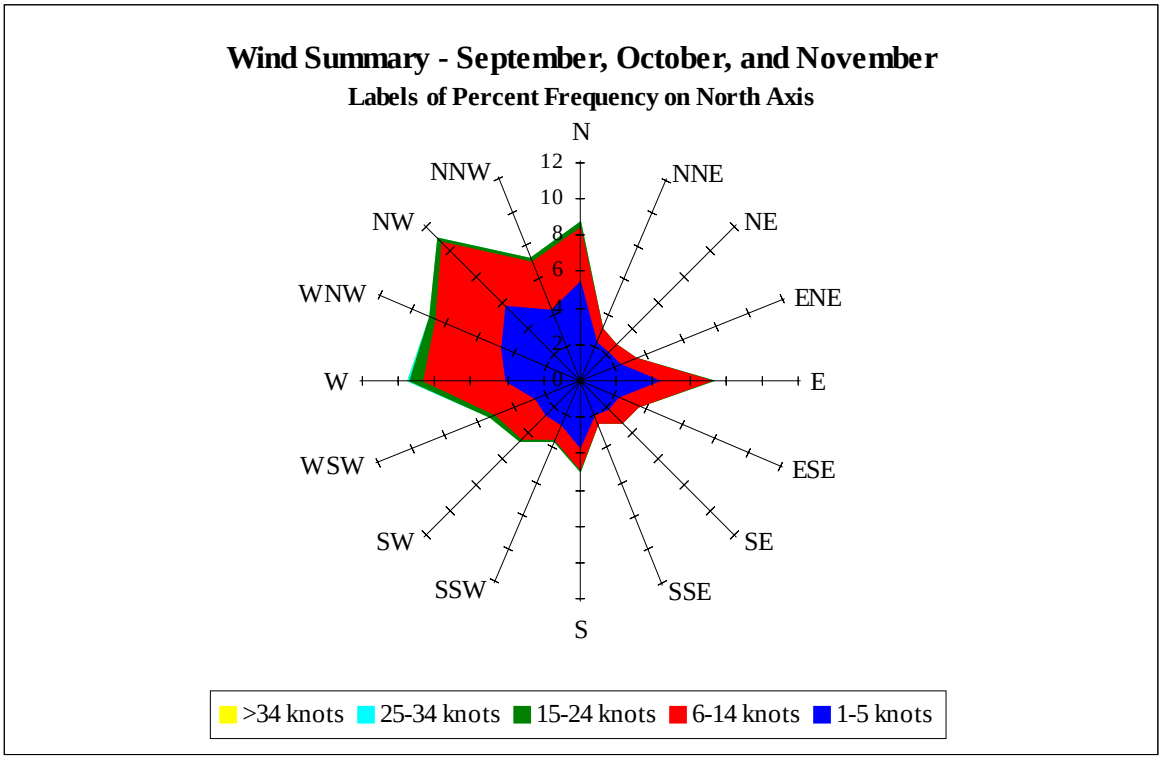
Percent Calm = 15.04



Percent Calm = 5.36



Percent Calm = 5.31



Percent Calm = 10.49