JACKSON/MCKELLAR TN	
Latitude = 35.60 N	WMO No. 723346
Longitude = 88.92 W	Elevation = 433 feet
Period of Record = 1973 to 1996	Average Pressure = 29.56 inches Hg

Design Criteria Data

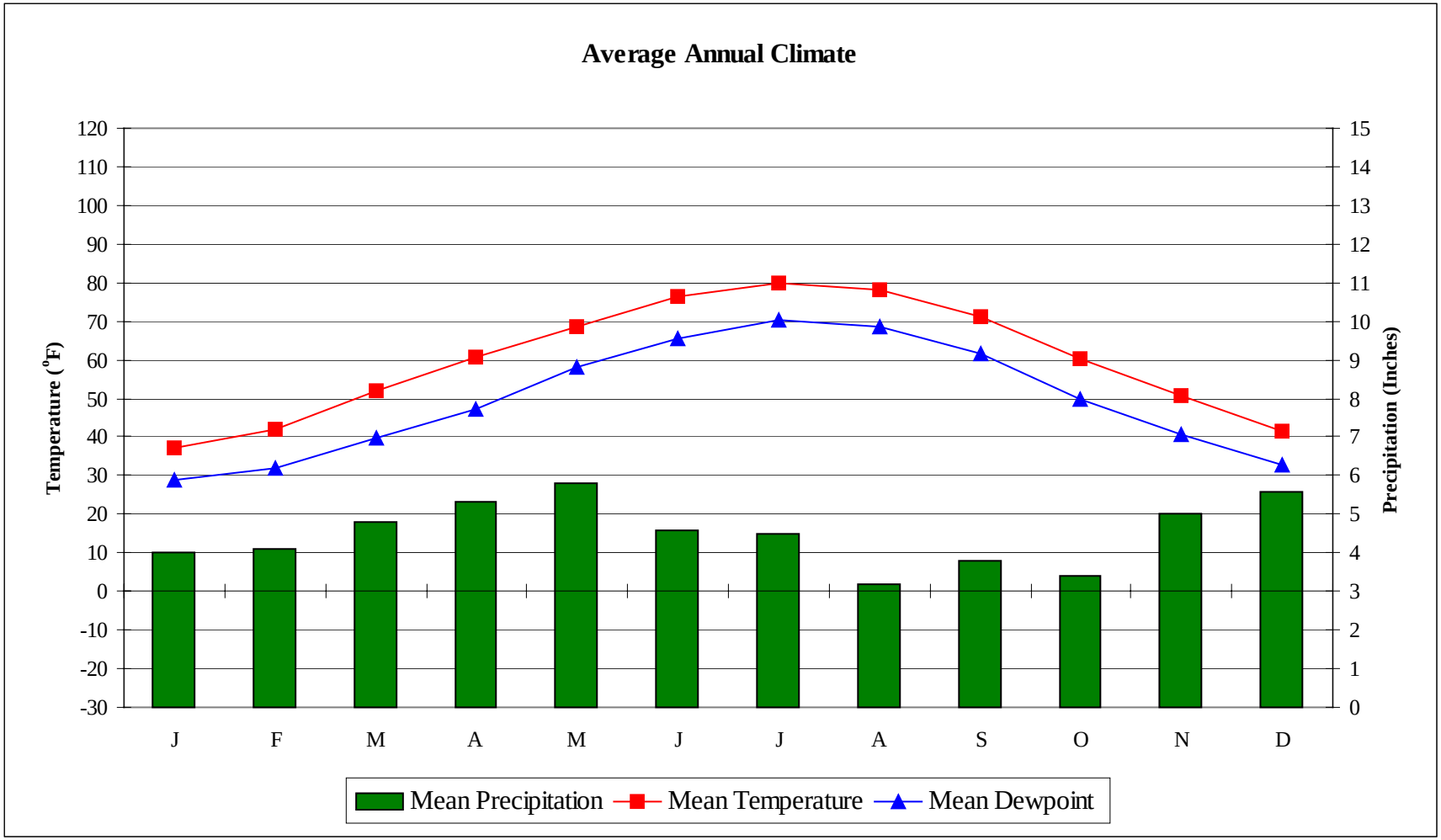
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	98	78	113	7.4	W
0.4% Occurrence	95	78	117	7.3	WSW
1.0% Occurrence	93	77	117	7.3	WSW
2.0% Occurrence	91	76	115	7.5	S
Mean Daily Range	20	-	-	-	-
97.5% Occurrence	23	21	13	7.8	N
99.0% Occurrence	17	16	9	7.8	N
99.6% Occurrence	12	11	7	8.4	N
Median of Extreme Lows	6	5	5	8.0	N
		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	82	93	145	7.2	WSW
0.4% Occurrence	80	91	136	7.0	WSW
1.0% Occurrence	79	90	132	6.9	SW
2.0% Occurrence	78	88	128	6.9	S
		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	159	88	1.04	6.3	S
0.4% Occurrence	143	87	0.94	6.3	S
1.0% Occurrence	134	85	0.88	6.9	S
2.0% Occurrence	130	83	0.85	7.9	S
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	101	1237	1148	2556

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
8	3.5	90	4.4 + 1.3
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 (#)**
62.4	N/A	N/A	43

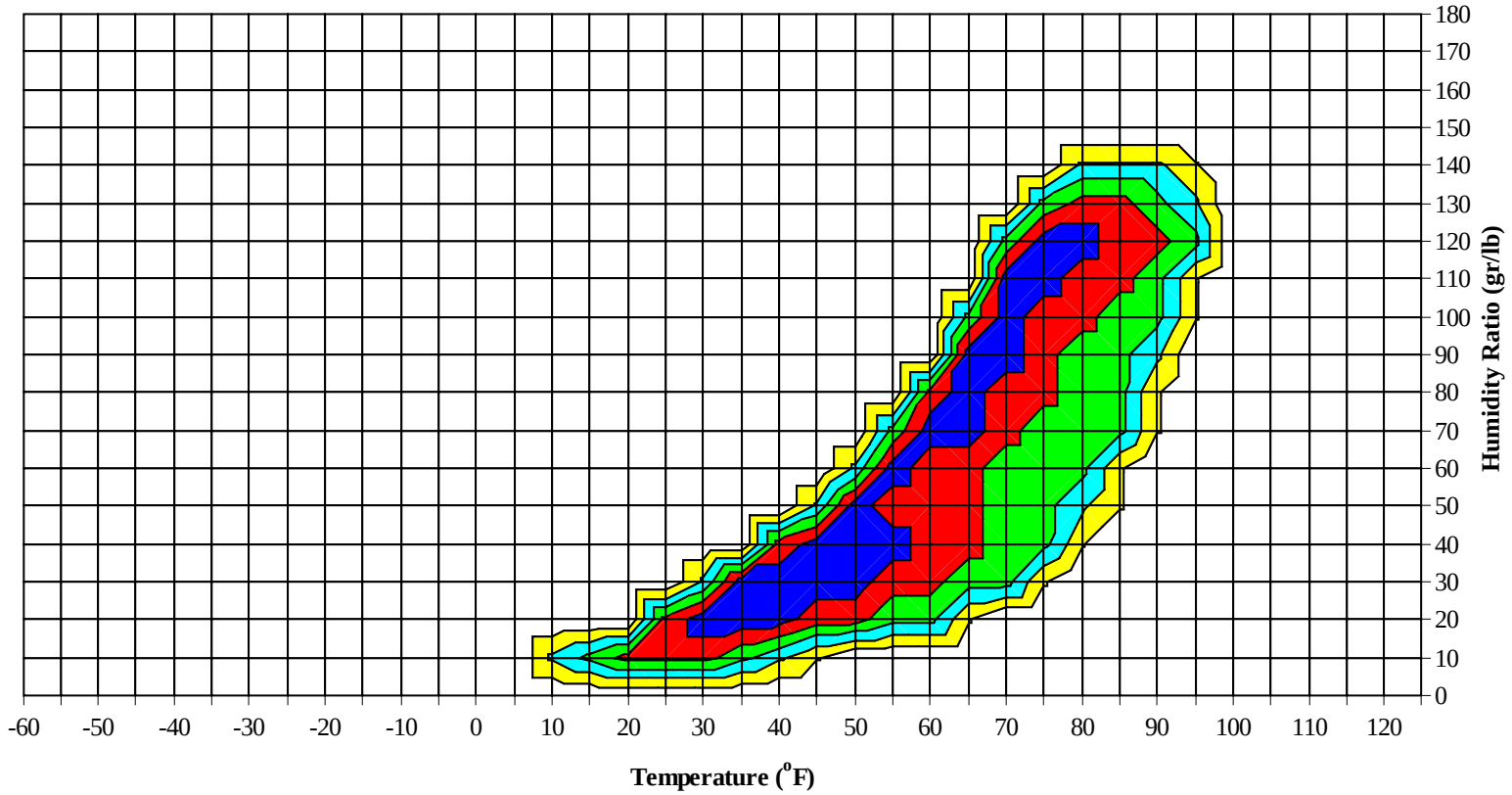
*Note: Temperatures at greater depths can be estimated by adding 1.5^oF per 100 feet additional depth.

JACKSON/MCKELLAR **TN** WMO No. 723346



JACKSON/MCKELLAR **TN** WMO No. 723346

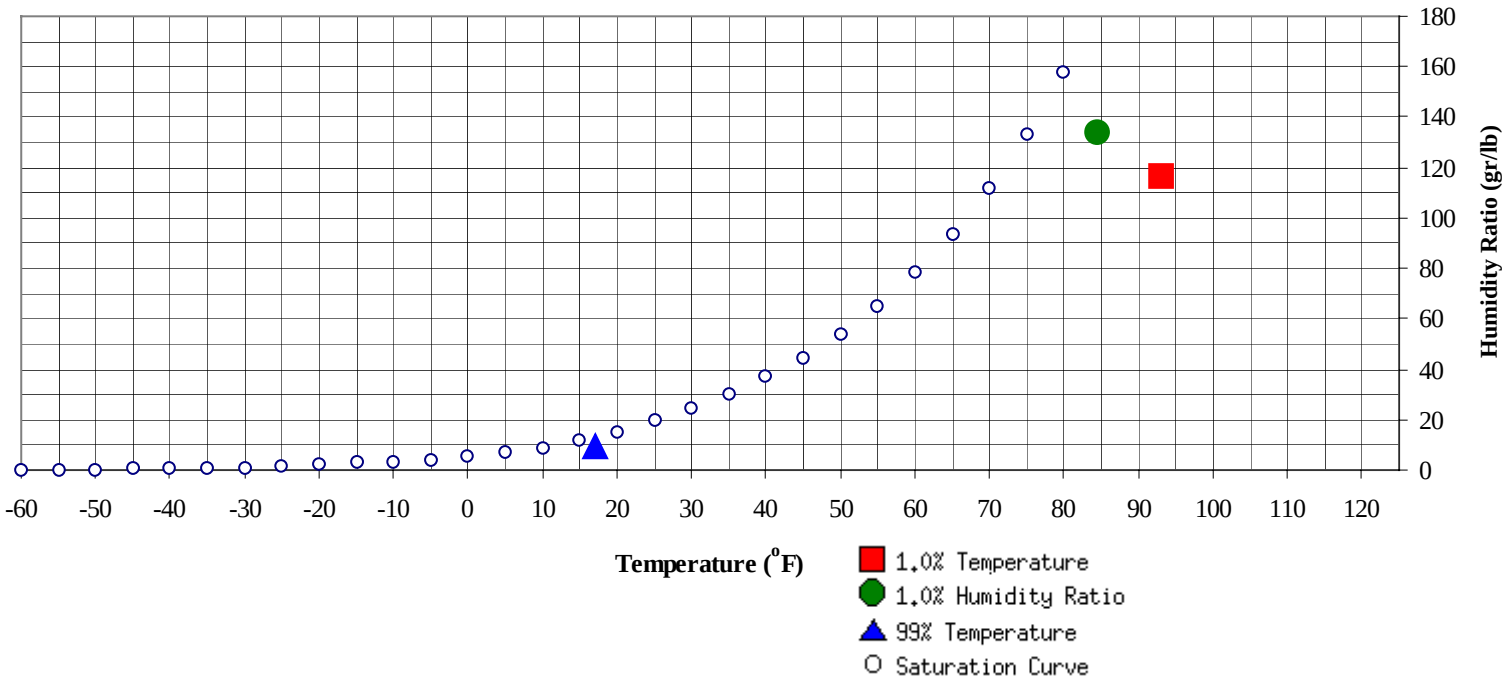
Long Term Psychrometric Summary



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

JACKSON/MCKELLAR **TN** WMO No. 723346

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	17	9.4	5.5

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	134.4	84.5	77.5	75	41.4

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	93	116.5	77.1	40.7

JACKSON/MCKELLAR TN WMO No. 723346

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)
100 / 104															
95 / 99															
90 / 94															
85 / 89												0		0	63.3
80 / 84							0		0	64.0		4	1	5	63.6
75 / 79							2	0	2	61.1	0	16	5	21	62.1
70 / 74		2	0	2	62.4		7	2	9	59.5	3	26	15	44	60.2
65 / 69	1	5	3	9	59.4	2	16	7	25	56.8	11	31	24	66	57.6
60 / 64	4	12	7	23	55.6	8	23	15	46	54.7	19	35	33	87	54.4
55 / 59	7	19	12	38	51.4	12	25	21	58	50.8	33	34	36	103	50.6
50 / 54	11	24	20	55	46.8	17	25	23	65	46.3	33	33	37	103	46.8
45 / 49	20	33	26	79	42.4	24	27	29	80	42.6	36	26	32	94	42.4
40 / 44	27	38	36	101	38.3	28	27	32	87	38.3	34	20	28	82	38.1
35 / 39	40	39	42	121	34.2	30	26	30	86	33.9	33	14	23	70	34.2
30 / 34	47	33	40	120	29.9	39	24	28	91	29.7	29	7	12	48	30.0
25 / 29	37	21	27	85	25.0	25	13	19	57	25.0	11	1	3	15	25.7
20 / 24	23	11	19	53	20.4	20	6	10	36	20.2	3	1	1	5	20.7
15 / 19	16	5	10	31	15.8	12	3	5	20	15.7	1	1	1	3	15.9
10 / 14	9	3	3	15	11.0	5	1	2	8	11.2	1		0	1	11.5
5 / 9	4	1	2	7	6.0	2	0	1	3	6.3	0			0	9.0
0 / 4	3	0	1	4	1.4	1		0	1	2.3					
-5 / -1	0	0	0	0	-3.2										
-10 / -6	0	0	0	0	-7.3										
-15 / -11	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.

JACKSON/MCKELLAR TN WMO No. 723346

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)
100 / 104												0		0	76.0
95 / 99						0	0		0	74.3		4	1	5	76.5
90 / 94		0		0	67.6	0	4	0	4	74.1		34	7	41	75.3
85 / 89		6	1	7	67.0	0	27	6	33	72.0	0	73	24	97	73.4
80 / 84		24	7	31	65.4	1	52	20	73	69.1	9	63	44	116	71.7
75 / 79	1	35	16	52	63.4	9	54	38	101	66.9	40	40	63	144	70.3
70 / 74	9	38	31	78	61.3	35	46	55	136	65.2	91	20	63	174	68.5
65 / 69	30	42	40	112	59.1	64	35	56	155	62.4	57	5	28	90	64.4
60 / 64	42	36	43	121	55.7	56	18	39	113	58.3	29	0	8	37	59.7
55 / 59	36	26	35	97	51.3	40	8	23	71	53.7	11		2	13	55.1
50 / 54	41	17	30	88	47.4	28	2	10	40	49.7	2		0	2	50.4
45 / 49	34	10	21	65	43.3	13	0	3	16	45.2	0			0	46.8
40 / 44	25	5	11	41	39.2	3		0	3	41.3					
35 / 39	15	1	4	20	34.9	0			0	37.1					
30 / 34	7		1	8	30.8										
25 / 29	1			1	27.0										
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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JACKSON/MCKELLAR TN WMO No. 723346

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)
100 / 104		2	0	2	79.0		1		1	77.6					
95 / 99		16	2	18	78.7		14	2	16	77.6		3	0	3	74.8
90 / 94		70	18	88	77.4		54	12	66	76.7		15	2	17	75.5
85 / 89	2	77	35	114	75.7	1	76	26	103	74.8		45	9	54	73.0
80 / 84	21	51	58	130	74.3	9	57	45	112	73.4	1	56	21	78	70.7
75 / 79	78	23	76	178	72.9	55	30	79	164	72.3	16	47	48	111	69.5
70 / 74	105	8	49	163	70.1	104	13	60	177	69.7	64	36	60	160	67.8
65 / 69	31	1	8	40	65.5	52	2	18	72	65.2	52	21	41	114	63.6
60 / 64	10	0	1	11	60.8	21	0	5	26	60.5	39	11	31	81	59.0
55 / 59	0			0	57.6	5		1	6	56.2	33	4	18	55	54.7
50 / 54						1			1	50.8	22	1	8	31	50.5
45 / 49											10		3	13	45.6
40 / 44											3		0	3	41.9
35 / 39											0			0	37.6
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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.

JACKSON/MCKELLAR TN WMO No. 723346

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	October 09 To 16	October 17 To 00	October Total Obs	October MCWB (°F)	November Hour Group (LST) 01 To 08	November 09 To 16	November 17 To 00	November Total Obs	November MCWB (°F)	December Hour Group (LST) 01 To 08	December 09 To 16	December 17 To 00	December Total Obs	December MCWB (°F)
100 / 104															
95 / 99															
90 / 94		0		0	73.6										
85 / 89		5	0	5	69.9										
80 / 84		25	2	27	67.3		1		1	62.5					
75 / 79	1	41	9	51	64.7		9	0	9	63.4		0		0	68.0
70 / 74	9	49	29	87	63.0	3	23	8	34	62.5	1	3	1	5	63.7
65 / 69	28	44	43	115	60.5	12	28	21	61	60.0	3	10	6	19	60.9
60 / 64	36	38	42	116	56.2	25	33	30	88	56.3	12	21	15	48	57.0
55 / 59	41	27	44	112	52.4	23	36	30	89	51.0	14	25	18	57	51.8
50 / 54	40	14	34	88	48.4	29	35	32	96	47.2	17	34	23	74	46.6
45 / 49	40	4	26	70	44.5	30	34	36	100	42.7	22	39	33	94	42.6
40 / 44	28	1	13	42	40.2	32	23	36	91	38.6	37	42	42	121	38.3
35 / 39	19	1	5	25	36.0	36	12	26	74	34.4	38	31	39	108	34.0
30 / 34	6	0	1	7	31.8	28	3	16	47	30.2	39	20	34	93	29.7
25 / 29	0			0	27.8	16	1	4	21	25.7	33	12	18	63	25.2
20 / 24						4	0	1	5	21.3	16	5	9	30	20.5
15 / 19						1		0	1	17.3	10	4	5	19	15.6
10 / 14						0			0	12.4	4	1	2	7	11.2
5 / 9											2	1	1	4	5.6
0 / 4											0	0	1	1	1.2
-5 / -1											1	0	0	1	-3.2
-10 / -6											0	0		0	-6.5
-15 / -11															

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.

JACKSON/MCKELLAR TN WMO No. 723346

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

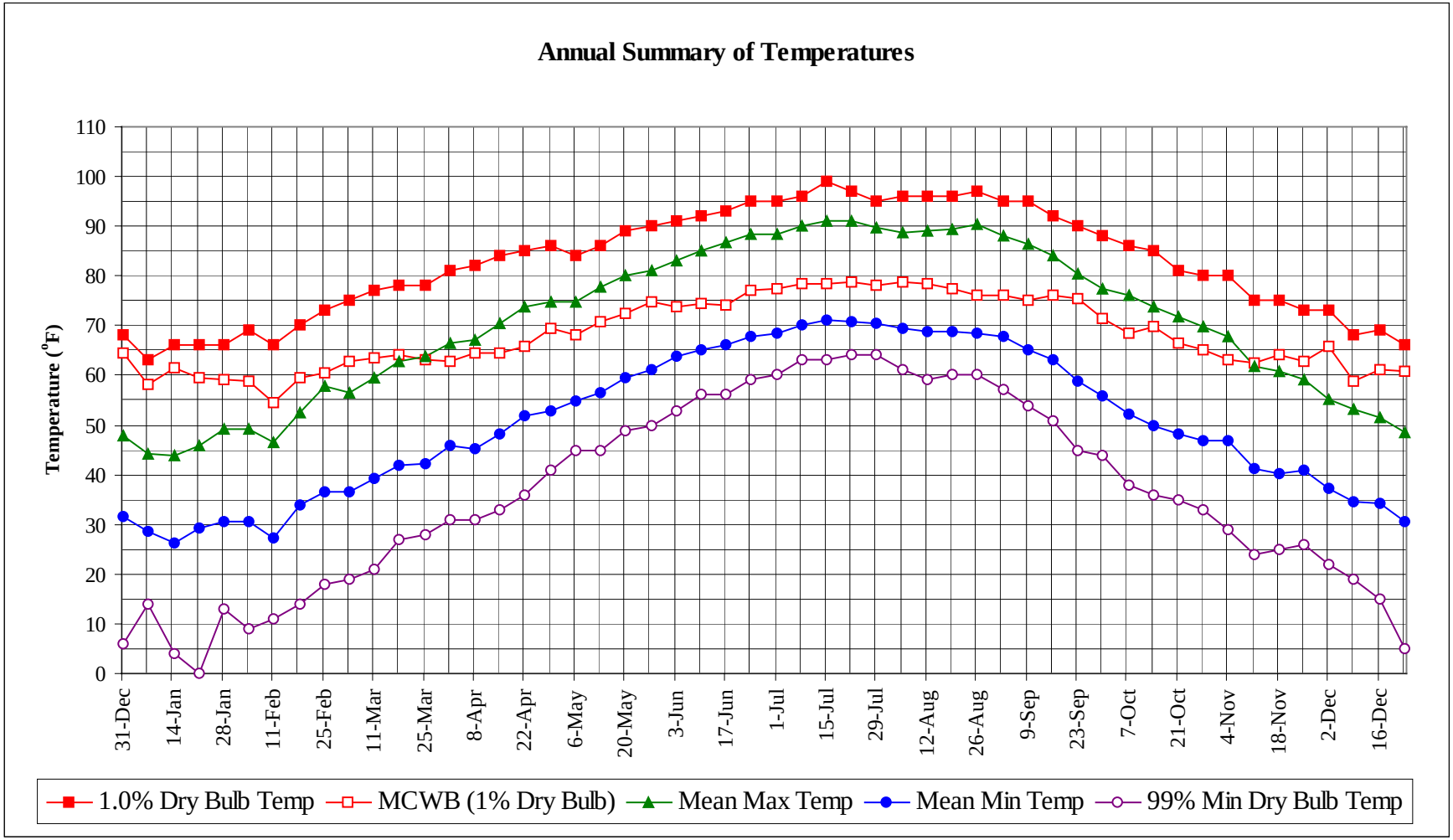
Period of Record = 1973 to 1996

Annual Totals

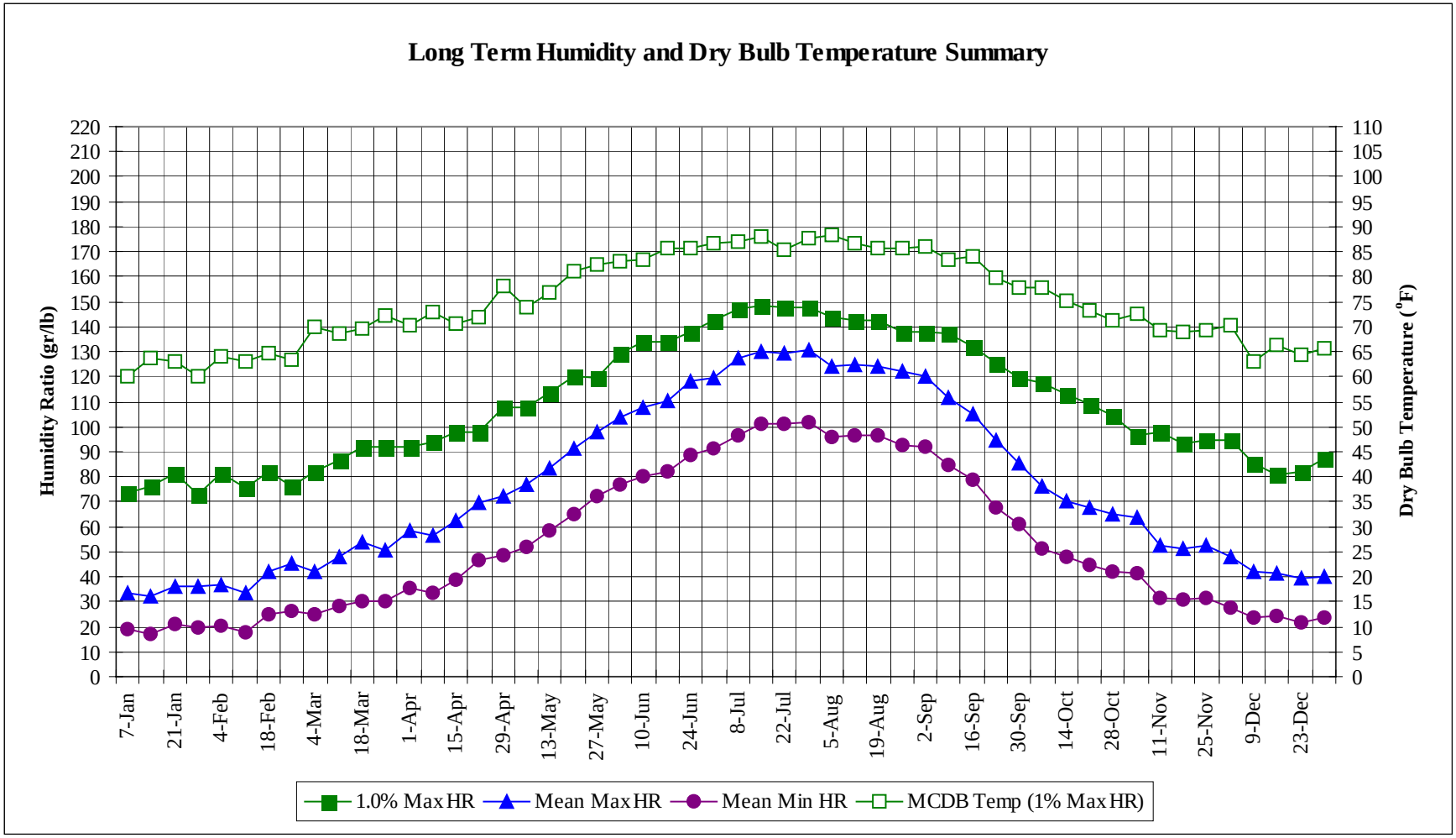
Temperature Range (°F)	Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
100 / 104		3	0	3	78.4
95 / 99	0	38	5	43	77.7
90 / 94	0	177	39	216	76.5
85 / 89	3	309	99	410	74.1
80 / 84	41	334	197	571	71.5
75 / 79	199	296	335	829	69.6
70 / 74	420	270	374	1064	66.8
65 / 69	343	241	294	878	61.7
60 / 64	301	228	269	798	56.8
55 / 59	256	204	239	699	52.0
50 / 54	242	185	217	644	47.5
45 / 49	231	174	210	615	43.0
40 / 44	217	155	198	570	38.6
35 / 39	213	124	169	506	34.3
30 / 34	196	88	133	417	29.9
25 / 29	122	48	72	242	25.2
20 / 24	65	24	40	129	20.4
15 / 19	41	12	21	74	15.8
10 / 14	18	5	7	30	11.1
5 / 9	8	2	3	13	6.0
0 / 4	4	1	2	7	1.5
-5 / -1	1	0	0	1	-3.2
-10 / -6	1	0	0	1	-7.0
-15 / -11	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.

JACKSON/MCKELLAR TN WMO No. 723346



JACKSON/MCKELLAR **TN** WMO No. 723346

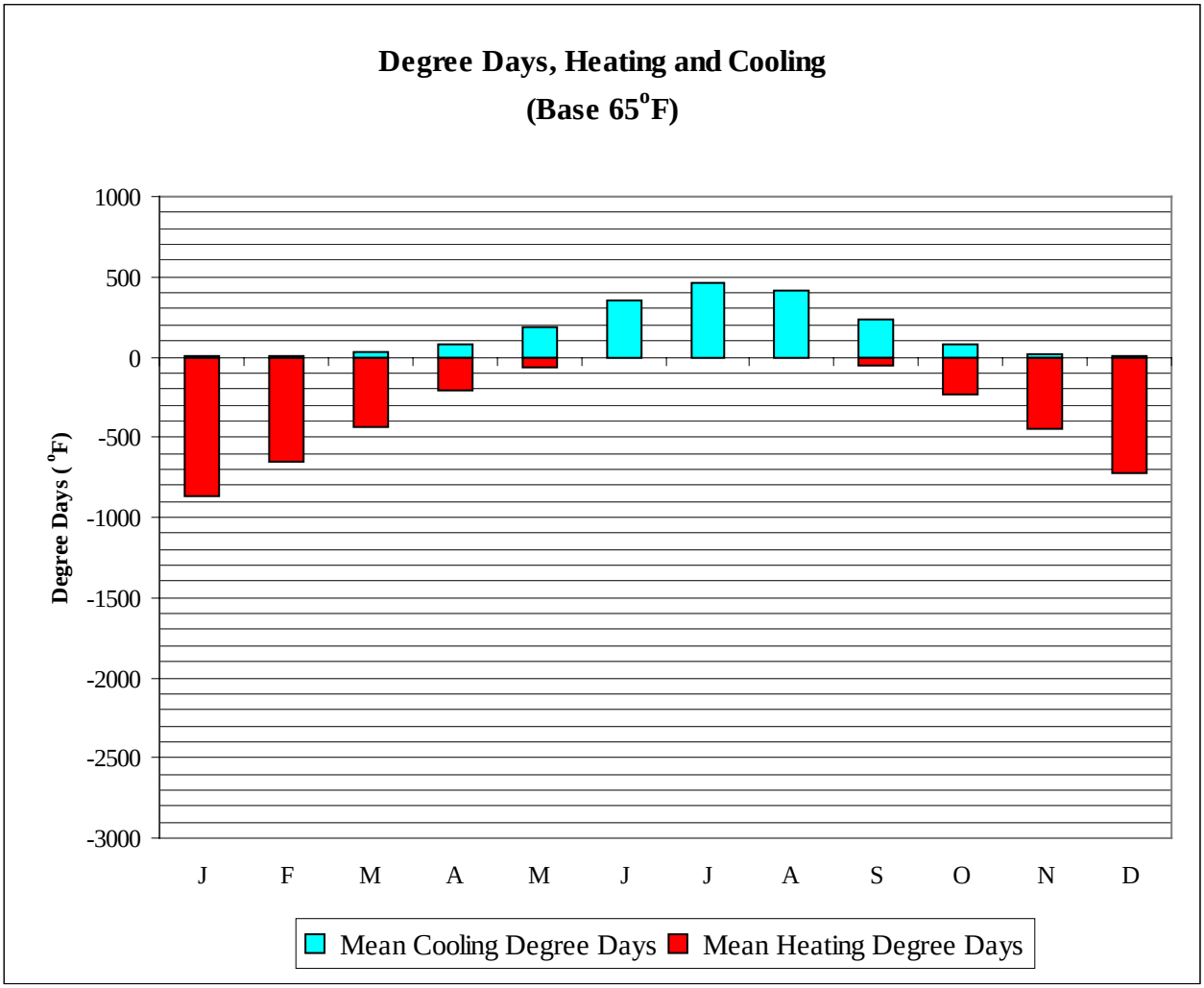


JACKSON/MCKELLAR TN WMO No. 723346

Long Term Dry Bulb Temperature and Humidity Summary

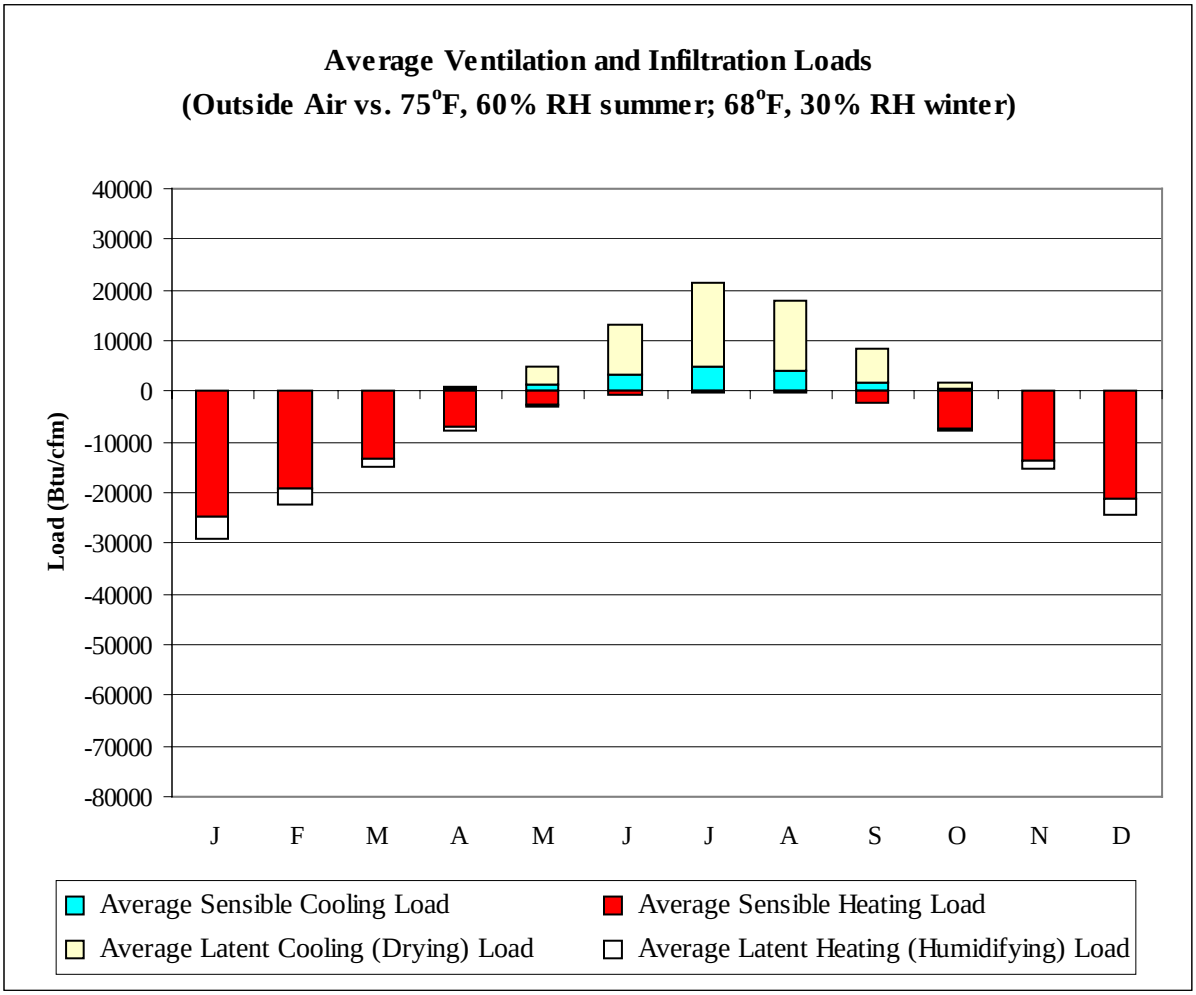
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	63.0	58.3	44.1	28.5	14.0	73.5	60.2	33.4	19.0
14-Jan	66.0	61.6	43.8	26.4	4.0	76.3	63.9	32.2	17.3
21-Jan	66.0	59.3	45.9	29.2	0.0	81.2	62.9	35.8	21.1
28-Jan	66.0	59.0	49.0	30.6	13.0	72.8	60.2	36.1	20.0
4-Feb	69.0	58.9	49.1	30.7	9.0	81.2	63.9	36.7	20.7
11-Feb	66.0	54.6	46.5	27.4	11.0	75.6	62.9	33.3	17.9
18-Feb	70.0	59.6	52.4	33.8	14.0	81.9	64.7	42.2	24.7
25-Feb	73.0	60.6	57.7	36.6	18.0	76.3	63.3	45.4	26.2
4-Mar	75.0	62.7	56.4	36.4	19.0	81.9	69.8	42.4	25.0
11-Mar	77.0	63.5	59.3	39.1	21.0	86.8	68.7	47.7	28.1
18-Mar	78.0	64.2	63.0	41.9	27.0	91.7	69.7	53.5	30.3
25-Mar	78.0	63.2	63.8	42.2	28.0	91.7	72.2	50.9	30.1
1-Apr	81.0	62.8	66.5	45.7	31.0	91.7	70.3	58.3	35.5
8-Apr	82.0	64.5	67.2	45.4	31.0	93.8	73.0	56.3	33.6
15-Apr	84.0	64.4	70.3	48.2	33.0	98.0	70.7	62.1	38.8
22-Apr	85.0	65.9	73.9	52.0	36.0	98.0	71.9	69.7	46.3
29-Apr	86.0	69.5	74.7	52.8	41.0	107.8	78.1	72.2	48.4
6-May	84.0	68.0	74.7	54.8	45.0	107.8	74.0	76.8	52.1
13-May	86.0	70.7	77.9	56.7	45.0	113.4	76.7	83.7	58.5
20-May	89.0	72.6	80.1	59.7	49.0	120.4	81.2	91.6	65.3
27-May	90.0	74.6	81.2	61.3	50.0	119.7	82.3	97.7	72.1
3-Jun	91.0	73.8	83.2	63.7	53.0	129.5	83.2	104.0	77.1
10-Jun	92.0	74.5	85.1	65.3	56.0	133.7	83.2	107.9	80.2
17-Jun	93.0	74.2	86.8	66.2	56.0	133.7	85.7	110.2	82.4
24-Jun	95.0	77.1	88.3	67.8	59.0	137.9	85.7	118.1	88.4
1-Jul	95.0	77.5	88.5	68.6	60.0	142.8	86.8	119.7	91.3
8-Jul	96.0	78.5	90.0	70.1	63.0	147.0	87.2	127.4	96.5
15-Jul	99.0	78.4	90.9	71.1	63.0	148.4	88.1	129.9	101.5
22-Jul	97.0	78.8	91.1	70.8	64.0	147.7	85.3	129.4	101.1
29-Jul	95.0	78.0	89.7	70.6	64.0	147.7	87.8	130.5	102.0
5-Aug	96.0	78.8	88.7	69.3	61.0	143.5	88.2	124.0	95.7
12-Aug	96.0	78.3	89.1	68.8	59.0	142.8	86.6	124.9	96.5
19-Aug	96.0	77.6	89.3	68.8	60.0	142.8	85.7	124.2	96.3
26-Aug	97.0	76.1	90.3	68.4	60.0	137.9	85.6	121.9	92.7
2-Sep	95.0	76.1	88.0	67.9	57.0	137.9	85.9	120.5	91.9
9-Sep	95.0	75.2	86.3	65.2	54.0	137.2	83.4	111.5	85.0
16-Sep	92.0	76.1	84.1	63.3	51.0	132.3	83.9	105.2	78.8
23-Sep	90.0	75.3	80.3	58.8	45.0	125.3	80.0	94.2	67.4
30-Sep	88.0	71.3	77.5	55.9	44.0	119.7	77.9	85.6	61.1
7-Oct	86.0	68.4	76.0	52.0	38.0	117.6	77.9	76.0	51.1
14-Oct	85.0	69.8	73.9	50.0	36.0	112.7	75.1	70.4	47.9
21-Oct	81.0	66.6	71.8	48.3	35.0	109.2	73.2	67.8	44.4
28-Oct	80.0	65.2	69.8	46.9	33.0	104.3	71.2	65.0	42.2
4-Nov	80.0	63.2	67.8	47.0	29.0	96.6	72.6	63.5	41.7
11-Nov	75.0	62.4	61.8	41.3	24.0	98.0	69.4	52.8	31.8
18-Nov	75.0	64.0	60.7	40.2	25.0	93.1	68.9	51.1	31.2
25-Nov	73.0	62.8	59.3	40.8	26.0	94.5	69.3	52.7	31.3
2-Dec	73.0	65.9	55.2	37.2	22.0	94.5	70.2	47.6	27.6
9-Dec	68.0	58.9	53.3	34.5	19.0	85.4	63.0	42.4	23.9
16-Dec	69.0	61.1	51.6	34.3	15.0	80.5	66.3	41.4	24.0
23-Dec	66.0	60.7	48.4	30.7	5.0	81.9	64.3	39.6	21.4
31-Dec	68.0	64.6	48.0	31.7	6.0	87.5	65.6	40.2	23.4

JACKSON/MCKELLAR TN WMO No. 723346



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	1	863
FEB	5	654
MAR	30	436
APR	83	215
MAY	187	71
JUN	351	9
JUL	462	1
AUG	410	5
SEP	238	55
OCT	81	228
NOV	19	454
DEC	3	727
ANN	1868	3718

JACKSON/MCKELLAR TN WMO No. 723346



	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	-24753	11	-4199
FEB	3	-19082	18	-3171
MAR	67	-13379	134	-1562
APR	406	-7164	560	-416
MAY	1208	-2821	3761	-12
JUN	3193	-501	9825	0
JUL	4840	-100	16644	0
AUG	4027	-291	13800	0
SEP	1832	-2140	6664	-1
OCT	345	-7548	1240	-198
NOV	23	-13846	294	-1479
DEC	0	-21215	64	-3272
ANN	15944	-112840	53015	-14310

Average Annual Solar Radiation – Nearest Available Site

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

City: MEMPHIS
State: TN
WBAN No: 13893
Lat(N): 35.05
Long(W): 89.98
Elev(ft): 285

Stn Type: Secondary
SHADING GEOMETRY IN DIMENSIONLESS UNITS
Window: 1
Overhang: 0.394
Vert Gap: 0.286

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	780	1020	1340	1710	1940	2100	2060	1890	1530	1250	850	690	1430
	Std Dev	60	80	116	118	137	119	121	115	91	96	73	67	37
	Minimum	670	880	1150	1460	1660	1830	1790	1690	1360	1000	630	580	1360
	Maximum	930	1200	1590	1910	2220	2340	2330	2110	1740	1460	950	800	1520
	Diffuse	360	450	580	700	800	840	830	760	650	460	380	330	600
Clear Day	Global	1100	1440	1880	2290	2520	2600	2520	2300	1940	1510	1140	980	1850
NORTH	Global	230	290	370	450	560	640	600	500	400	320	240	210	400
	Diffuse	230	290	370	440	500	540	520	470	400	320	240	210	380
Clear Day	Global	210	270	340	430	590	680	630	480	380	300	230	200	400
EAST	Global	500	630	790	970	1060	1140	1130	1070	890	770	530	450	830
	Diffuse	280	350	450	540	610	640	640	590	500	400	290	250	460
Clear Day	Global	790	970	1180	1340	1410	1410	1370	1300	1160	970	780	710	1120
SOUTH	Global	1100	1140	1080	940	770	700	740	910	1070	1290	1110	1030	990
	Diffuse	380	430	500	530	550	560	560	570	540	480	390	350	490
Clear Day	Global	1980	1950	1700	1260	920	770	820	1080	1470	1780	1880	1920	1460
WEST	Global	510	650	810	980	1080	1130	1110	1060	900	770	550	460	830
	Diffuse	280	350	450	540	620	650	640	600	510	400	300	250	470
Clear Day	Global	790	970	1180	1340	1410	1410	1370	1300	1160	970	780	710	1120

Average Annual Solar Heat and Illumination – Nearest Available Site

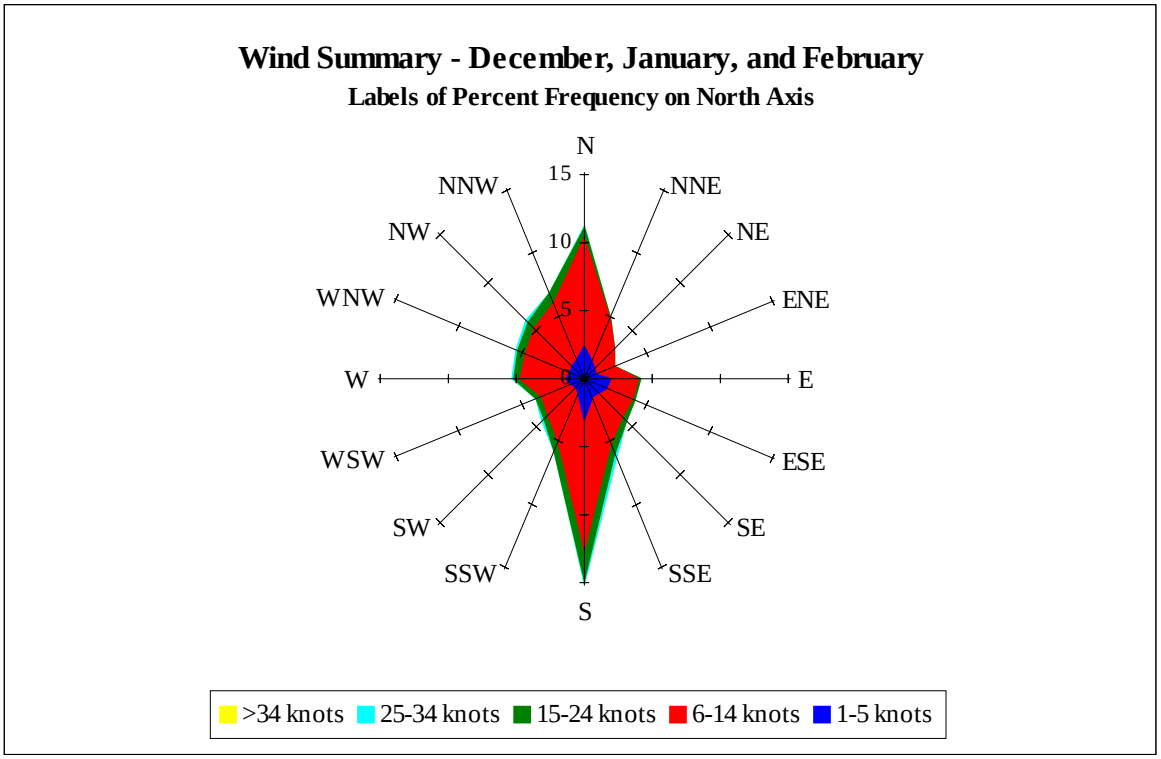
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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

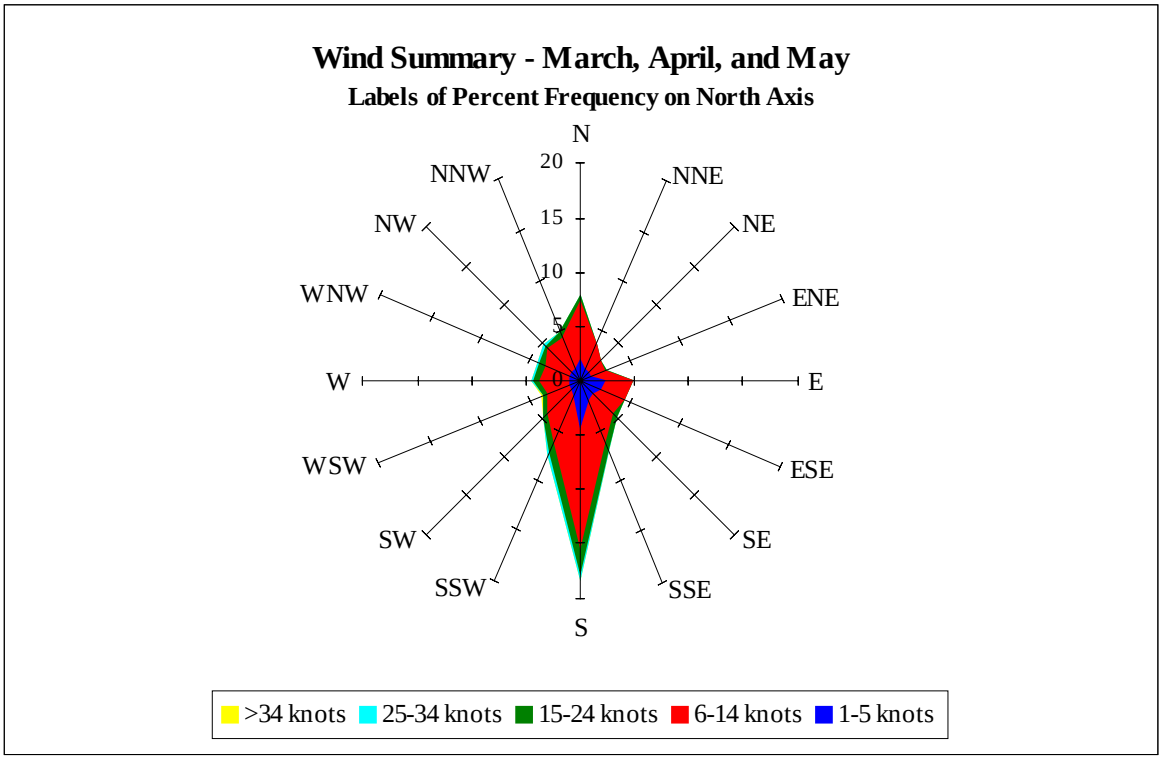
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	520	710	960	1230	1410	1530	1510	1380	1100	880	570	450	1020
NORTH	Unshaded	160	200	250	310	370	410	390	330	280	220	170	140	270
	Shaded	150	180	230	280	340	380	360	310	260	210	160	130	250
EAST	Unshaded	350	440	560	690	750	810	800	760	630	540	370	310	590
	Shaded	320	400	510	630	680	730	720	690	580	500	340	280	530
SOUTH	Unshaded	820	820	730	590	470	430	450	560	700	910	820	770	670
	Shaded	800	780	610	430	350	360	360	400	550	820	800	760	580
WEST	Unshaded	350	460	570	700	770	800	790	750	640	550	380	310	590
	Shaded	330	420	520	630	690	720	710	680	580	500	350	290	530

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

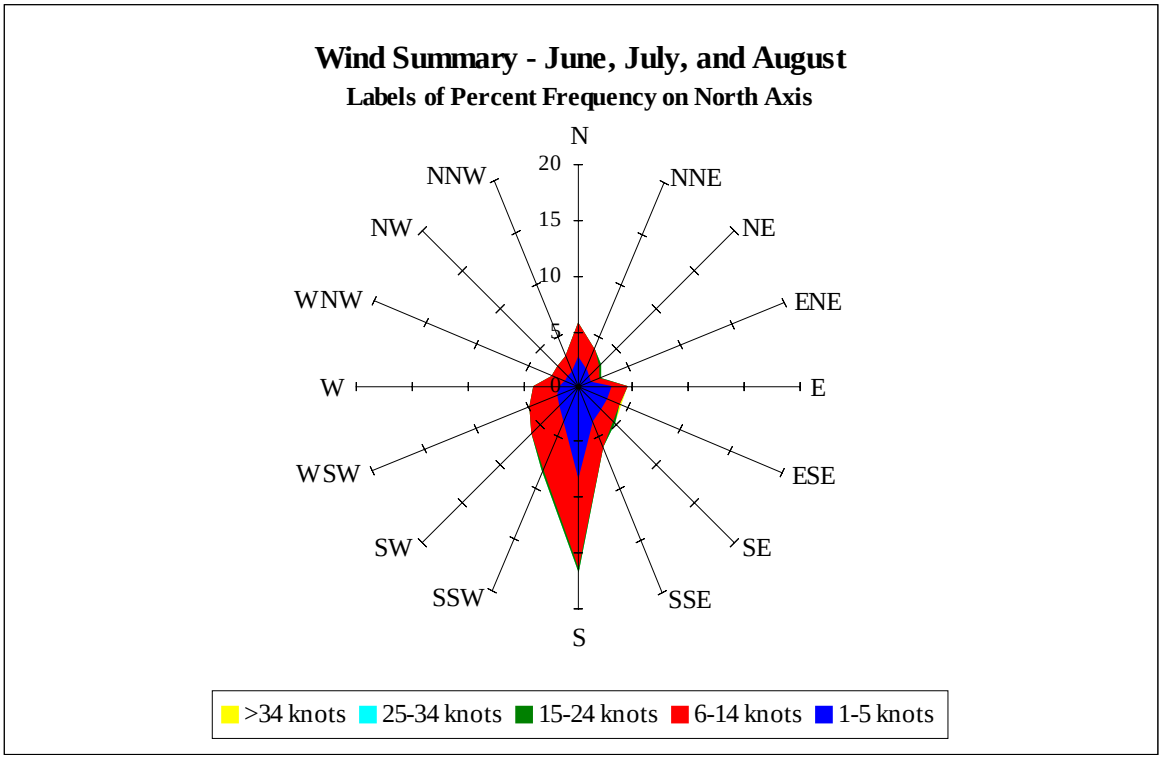
		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	44	79	87	69	28	47	86	103	96	67
	M.Cloudy	25	47	53	43	17	33	63	79	75	51
NORTH	M.Clear	10	15	15	13	8	21	17	17	18	16
	M.Cloudy	10	16	18	15	7	16	18	19	19	16
EAST	M.Clear	78	57	15	13	8	75	72	30	18	16
	M.Cloudy	28	31	18	15	7	41	50	28	19	16
SOUTH	M.Clear	40	70	78	62	26	13	27	39	35	16
	M.Cloudy	18	35	41	32	12	12	24	33	31	16
WEST	M.Clear	10	15	25	70	68	13	17	17	54	77
	M.Cloudy	10	16	21	35	24	12	18	19	43	52
M.Clear	(% hrs)	33	34	35	34	34	48	45	36	37	42
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	30	71	89	81	48	21	49	55	35	3
	M.Cloudy	18	44	61	58	33	11	28	31	20	3
NORTH	M.Clear	9	16	17	17	13	7	11	11	9	2
	M.Cloudy	8	16	19	18	12	5	11	12	8	1
EAST	M.Clear	64	70	28	17	13	50	41	11	9	2
	M.Cloudy	23	36	24	18	12	13	19	12	8	1
SOUTH	M.Clear	20	54	70	63	34	46	84	90	66	9
	M.Cloudy	11	30	45	42	22	12	29	32	22	3
WEST	M.Clear	9	16	17	55	72	7	11	25	54	14
	M.Cloudy	8	16	19	38	38	5	11	15	19	3
M.Clear	(% hrs)	48	49	40	39	46	35	34	35	35	38



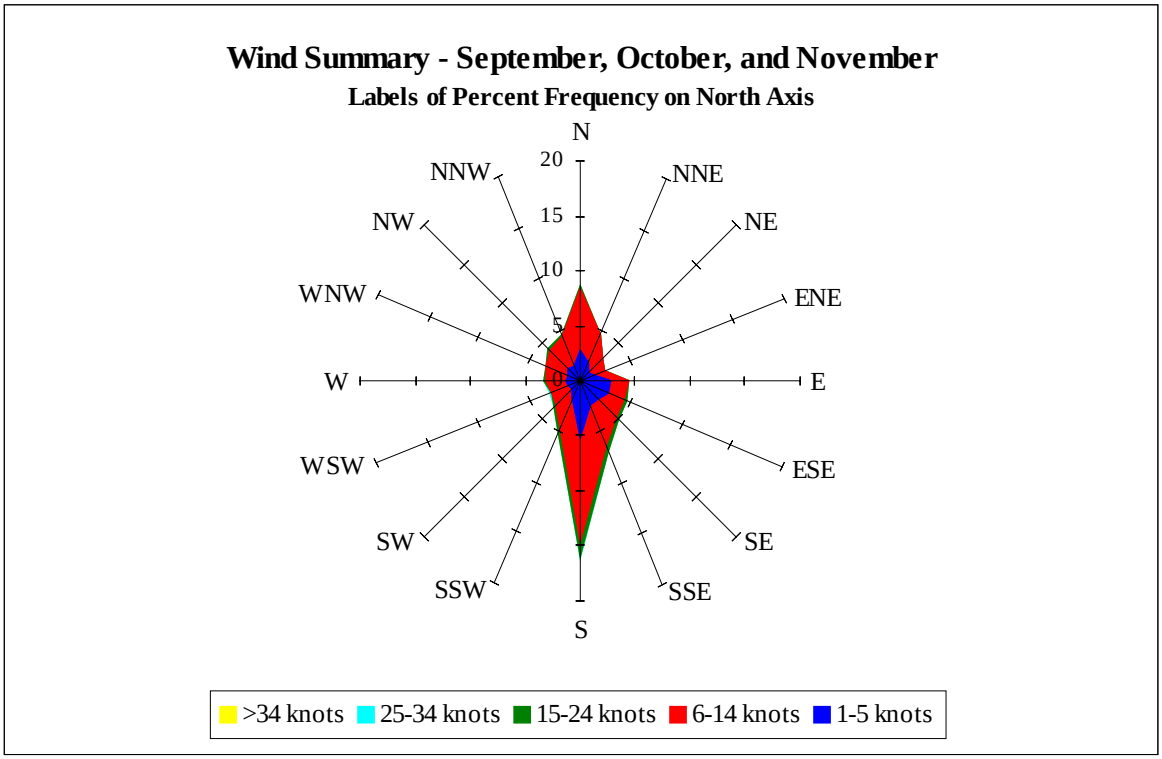
Percent Calm = 8.41



Percent Calm = 10.99



Percent Calm = 20.27



Percent Calm = 18.34