

MC GHEE TYSON, TN	Station ID = ICAO_KTYS
Latitude = 35.81 N	Elevation = 981 Feet
Longitude = 83.99 W	Average Pressure = 29.02 inches Hg
Period of Record = 1988 To 2017	

Design Criteria Data

	Mean Coincident (Average) Values				
Dry Bulb Temperature (T)	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	95	75	101	7.3	W
0.4% Occurrence	93	74	99	7.3	W
1.0% Occurrence	91	73	101	7.1	W
2.0% Occurrence	88	73	101	7.1	W
Mean Daily Range	19	-	-	-	N
97.5% Occurrence	26	23	14	5.3	N
99.0% Occurrence	21	19	11	5.9	N
99.6% Occurrence	17	15	9	5.8	NNE
Median of Extreme Lows	10	8	6	5.2	N

	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T _{wb})					
Median of Extreme Highs	78	89	127	6.8	WSW
0.4% Occurrence	77	87	124	6.7	WSW
1.0% Occurrence	76	86	121	6.7	SW
2.0% Occurrence	75	84	118	6.6	SW

	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)					
Median of Extreme Highs	137	83	0.88	5.7	SW
0.4% Occurrence	129	81	0.83	5.5	SW
1.0% Occurrence	127	81	0.83	5.7	SW
2.0% Occurrence	122	79	0.79	5.8	SW

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	53	1014	622	2255

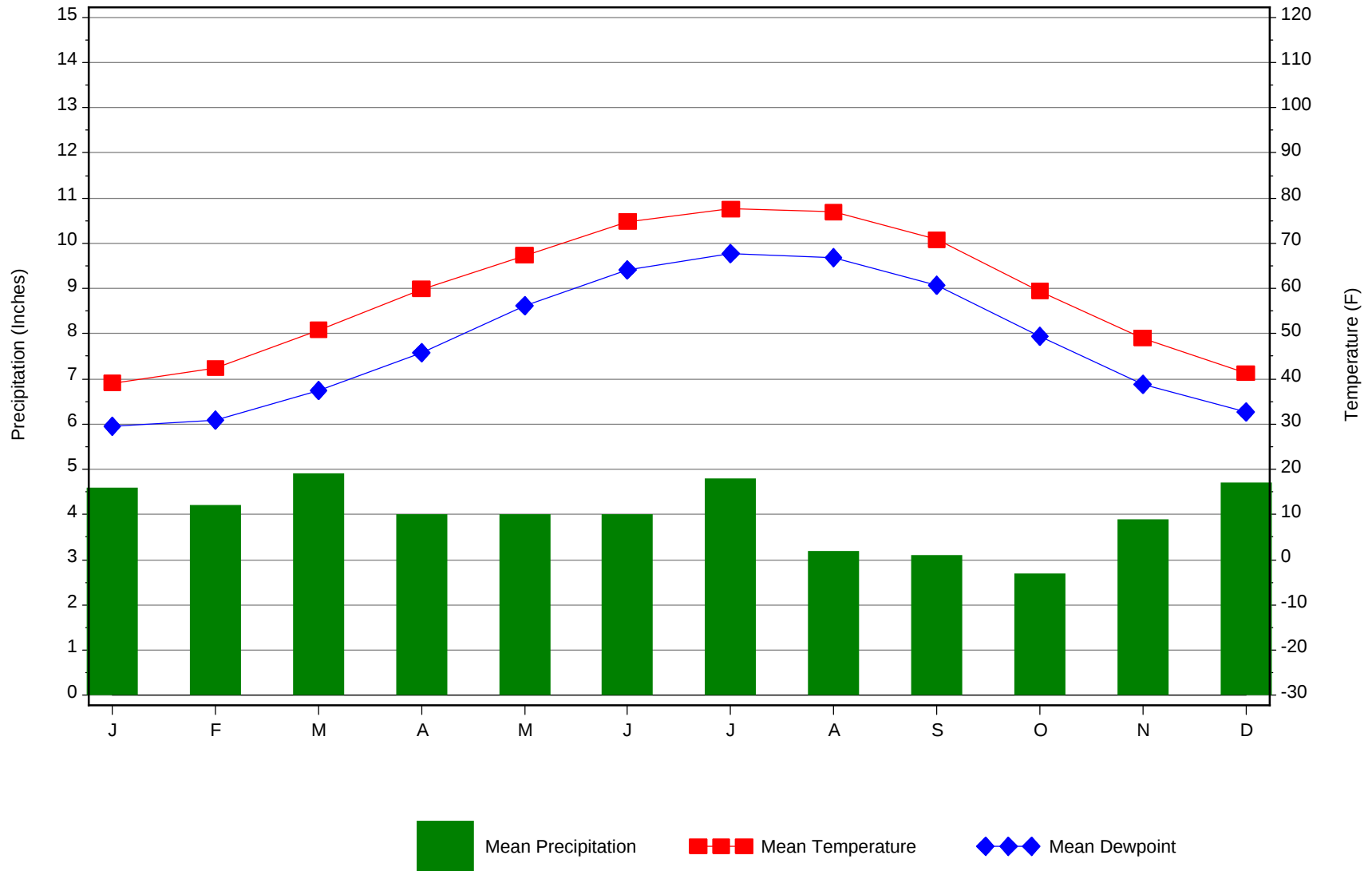
Other Site Data

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
8	0.6	120	3.4 + 1.0
Ground Water Temperature (°F) 50 Foot Depth*	Frost Depth 50 Year Recurrence (in)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
61.7	N/A	N/A	46

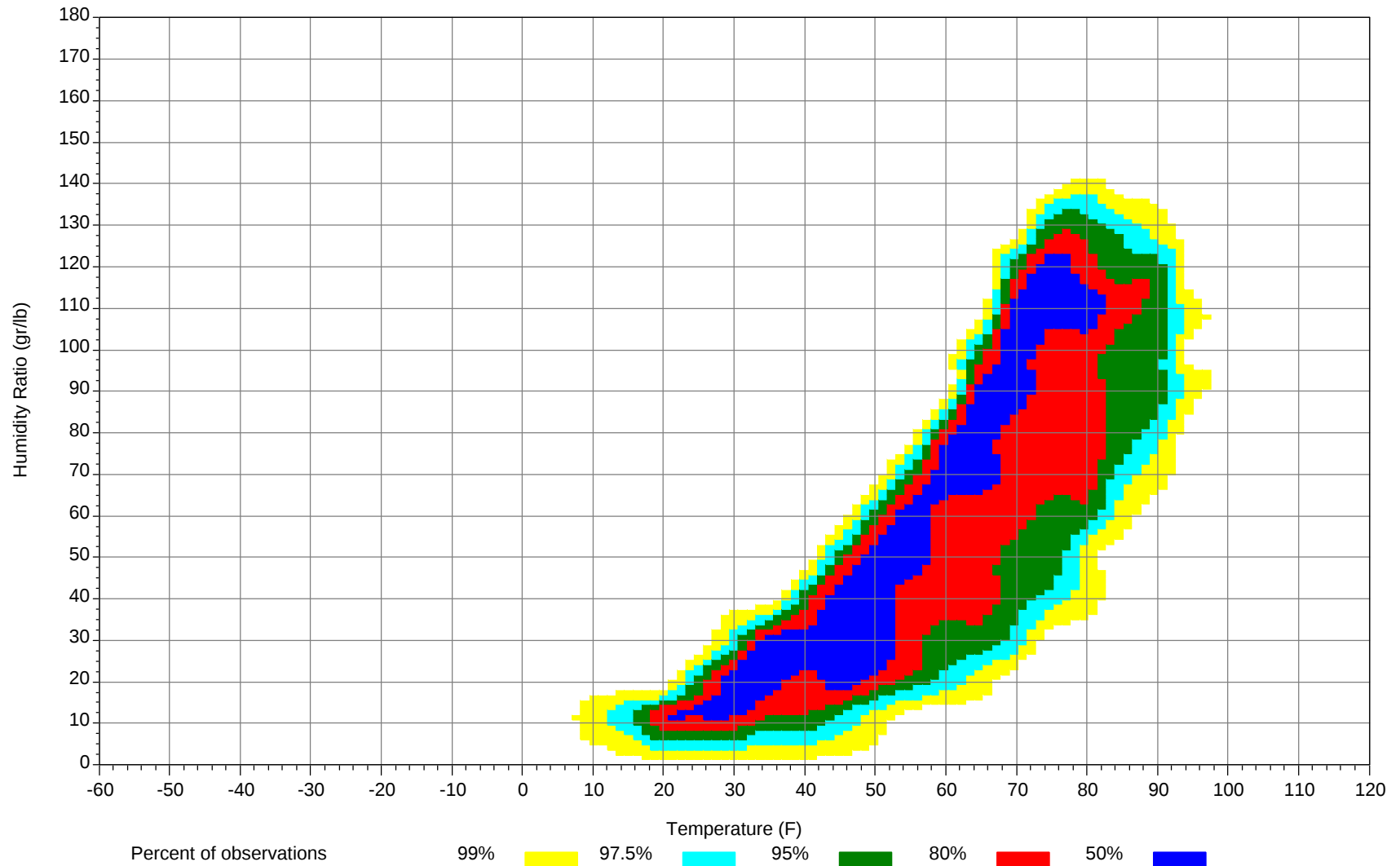
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



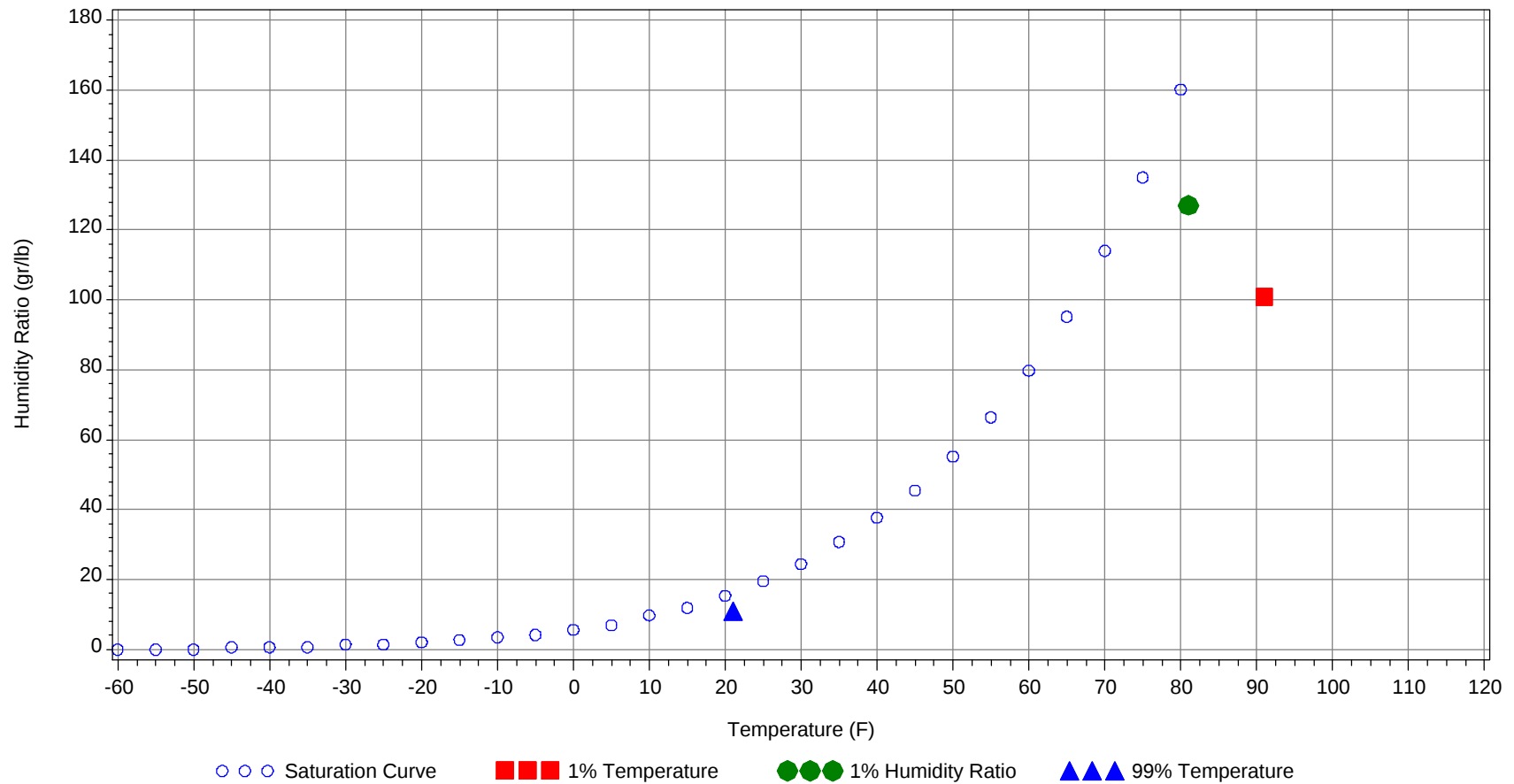
Average Annual Climate



Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values



	(° F) / (gr/lb)	MCDB (° F)	MCWB (° F)	MCDP (° F)	MCHR (gr/lb)	Enthalpy (btu/lb)
1.0% Dry Bulb	91.0		73		101.0	37.6
99.0% Dry Bulb	21.0				11.0	6.7
1.0% Humidity Ratio	127.0	81.0	75.3	73.3		39.4

Dry-Bulb Temperature Hours For An Average Year

	January					February					March				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109															
100/104															
95/ 99															
90/ 94															
85/ 89												0		0	66
80/ 84							0		0	63		2	0	2	63.8
75/ 79		0		0	63		1	0	1	61.7		9	4	13	61.4
70/ 74	0	2	1	3	61.1	0	4	2	6	59.7	1	21	14	36	58.5
65/ 69	1	4	2	7	58.4	3	6	4	13	57	5	23	18	46	55.8
60/ 64	5	11	9	25	55.7	4	16	13	33	53.4	15	35	35	85	53.7
55/ 59	8	18	15	41	51.3	10	24	22	56	49.8	28	37	42	107	50.4
50/ 54	15	27	26	68	47.3	17	32	33	82	46	38	36	41	115	46.6
45/ 49	27	41	39	107	42.7	29	37	39	105	41.9	42	34	37	113	41.8
40/ 44	26	31	33	90	38.4	22	26	27	75	37.5	33	19	21	73	38
35/ 39	41	46	48	135	33.6	44	37	38	119	33.7	40	19	22	81	33.9
30/ 34	45	31	35	111	29.3	44	23	26	93	29.1	29	9	10	48	29.2
25/ 29	39	19	23	81	24.2	29	11	14	54	24	15	2	3	20	24.6
20/ 24	17	8	9	34	19.6	13	4	4	21	19.6	3	1	1	5	19.9
15/ 19	15	6	5	26	15.6	6	2	1	9	15.9	1	0	0	1	15.9
10/ 14	5	2	1	8	10.7	2	1	1	4	10.4	0	0		0	11.5
5/ 9	2	1	1	4	6.2	1	0	0	1	6.2	0			0	7.2
0/ 4	1	0	0	1	1.6	0	0	0	0	1.7					
-5/ -1	0	0		0	-3.5	0	0		0	-2.3					
-10/ -6						0			0	-6.5					

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.

Dry-Bulb Temperature Hours For An Average Year

	April					May					June				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109													0	0	73
100/104												0	0	0	71.6
95/ 99												2	0	2	73.5
90/ 94							2	1	3	71.7		18	7	25	72.9
85/ 89		1	0	1	67.9		12	4	16	69.5		38	18	56	72
80/ 84		17	7	24	65	0	46	22	68	68.2	1	76	46	123	70.4
75/ 79	0	28	17	45	62.6	3	54	37	94	66	19	57	61	137	69.2
70/ 74	7	44	37	88	60.1	27	56	62	145	63.7	94	35	71	200	67.6
65/ 69	16	33	34	83	57.6	46	31	44	121	61.8	69	10	25	104	64.7
60/ 64	42	43	50	135	55.5	74	29	44	147	58.5	41	4	9	54	60.1
55/ 59	44	30	38	112	51.3	42	12	18	72	53.5	11	0	2	13	55.2
50/ 54	45	23	27	95	47.3	30	5	11	46	49.4	4		0	4	50.9
45/ 49	40	14	17	71	42.6	19	1	5	25	45	0			0	47.1
40/ 44	21	5	8	34	38.5	6	0	0	6	41.5					
35/ 39	18	2	4	24	34.7	1		0	1	37.5					
30/ 34	5	0	0	5	30.2	0			0	34					
25/ 29	1			1	25.5										
20/ 24															
15/ 19															
10/ 14															
5/ 9															
0/ 4															
-5/ -1															
-10/ -6															

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Dry-Bulb Temperature Hours For An Average Year

	July					August					September				
Temperature Range (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)
105/109		0		0	74										
100/104		0	0	0	72.4		0	0	0	72.7					
95/ 99		5	2	7	74.8		4	2	6	74.7		1	0	1	72.3
90/ 94		33	14	47	74.6		31	14	45	74		10	4	14	70.5
85/ 89	0	53	28	81	73.7		49	23	72	73.3		24	8	32	70.8
80/ 84	4	82	60	146	72.5	2	81	58	141	71.8	0	52	27	79	69.1
75/ 79	46	48	74	168	71.3	34	51	73	158	70.8	5	55	47	107	67.5
70/ 74	139	23	60	222	69.3	127	27	66	220	69	57	54	74	185	66.6
65/ 69	44	3	8	55	65.5	58	4	11	73	65.3	62	23	38	123	63.7
60/ 64	14	0	1	15	61.1	25	1	2	28	60.9	65	15	28	108	59.5
55/ 59	1		0	1	55.7	3		0	3	55.9	30	4	9	43	54.4
50/ 54	0			0	49.4	0			0	52	14	1	4	19	50.1
45/ 49											5	0	1	6	45.6
40/ 44											1		0	1	42.2
35/ 39															
30/ 34															
25/ 29															
20/ 24															
15/ 19															
10/ 14															
5/ 9															
0/ 4															
-5/ -1															
-10/ -6															

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Dry-Bulb Temperature Hours For An Average Year

	October					November					December				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109															
100/104															
95/ 99															
90/ 94															
85/ 89		1	0	1	68.3		0		0	64					
80/ 84		14	4	18	66.9		0	0	0	64.5					
75/ 79	1	30	12	43	64.4		5	1	6	63.9		0	0	0	64.5
70/ 74	5	46	33	84	62.1	0	16	6	22	60.5	0	3	1	4	62.7
65/ 69	13	38	35	86	60.2	4	18	12	34	58.4	1	4	2	7	59.9
60/ 64	43	48	57	148	57.3	13	33	28	74	55.5	6	15	10	31	56.8
55/ 59	47	33	42	122	52.7	17	37	35	89	51	9	24	20	53	52.4
50/ 54	49	22	32	103	48.7	29	42	45	116	47.3	17	33	29	79	47.6
45/ 49	43	12	23	78	44	44	41	46	131	42.5	30	44	44	118	42.8
40/ 44	23	3	7	33	40.2	34	22	28	84	38.5	26	32	35	93	38.5
35/ 39	19	1	4	24	36.2	47	19	26	92	34.5	49	45	49	143	34.1
30/ 34	5	0	0	5	32.1	32	6	12	50	30	49	28	34	111	29.4
25/ 29	1			1	27.8	16	1	2	19	25.3	38	13	18	69	24.7
20/ 24						2	0	0	2	20.6	13	4	5	22	20.1
15/ 19						0			0	17.1	7	2	2	11	16.1
10/ 14											1	1	0	2	10.6
5/ 9											0	0	0	0	5.6
0/ 4											1	0		1	1.6
-5/ -1															
-10/ -6															

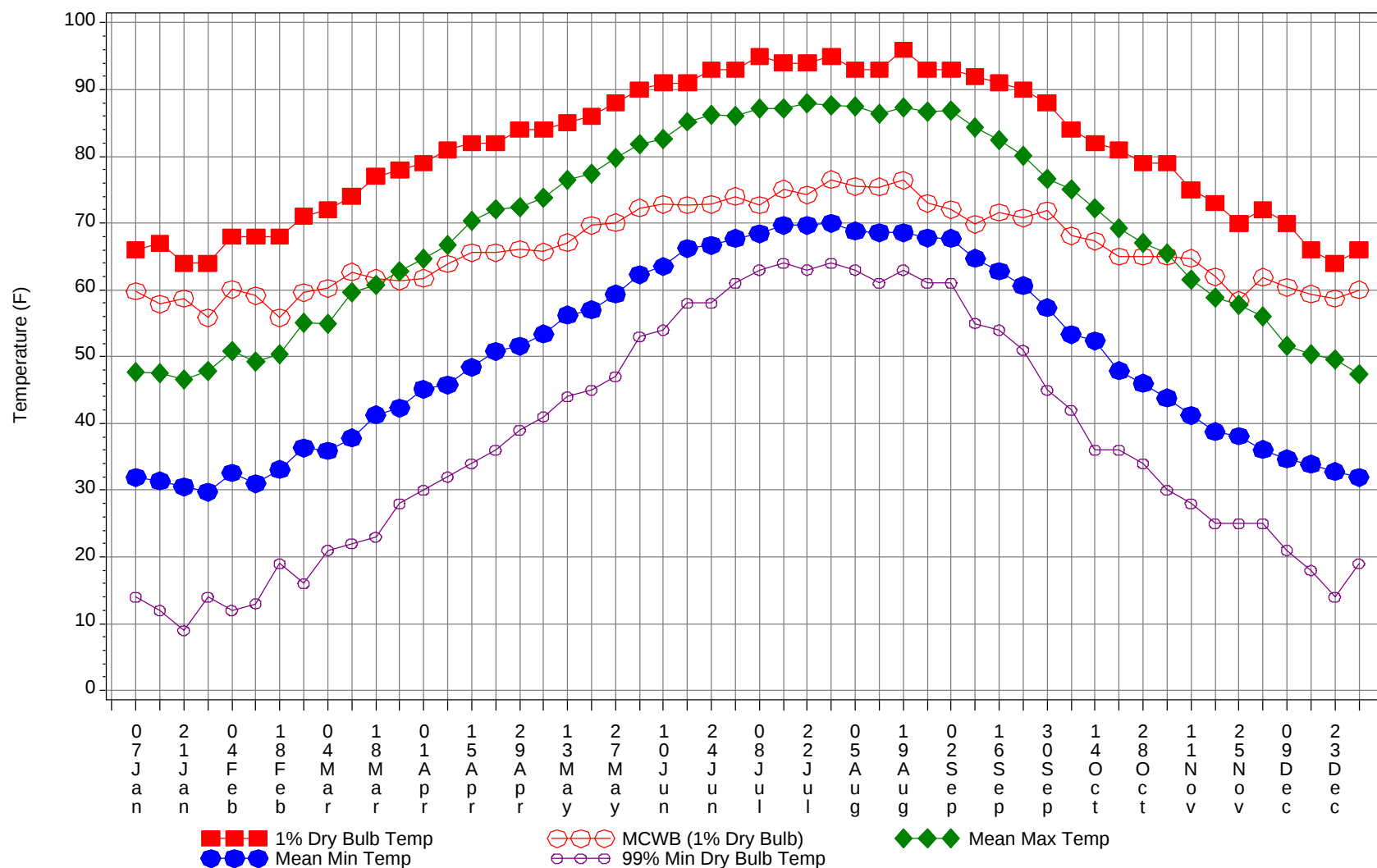
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

Dry-Bulb Temperature Hours For An Average Year

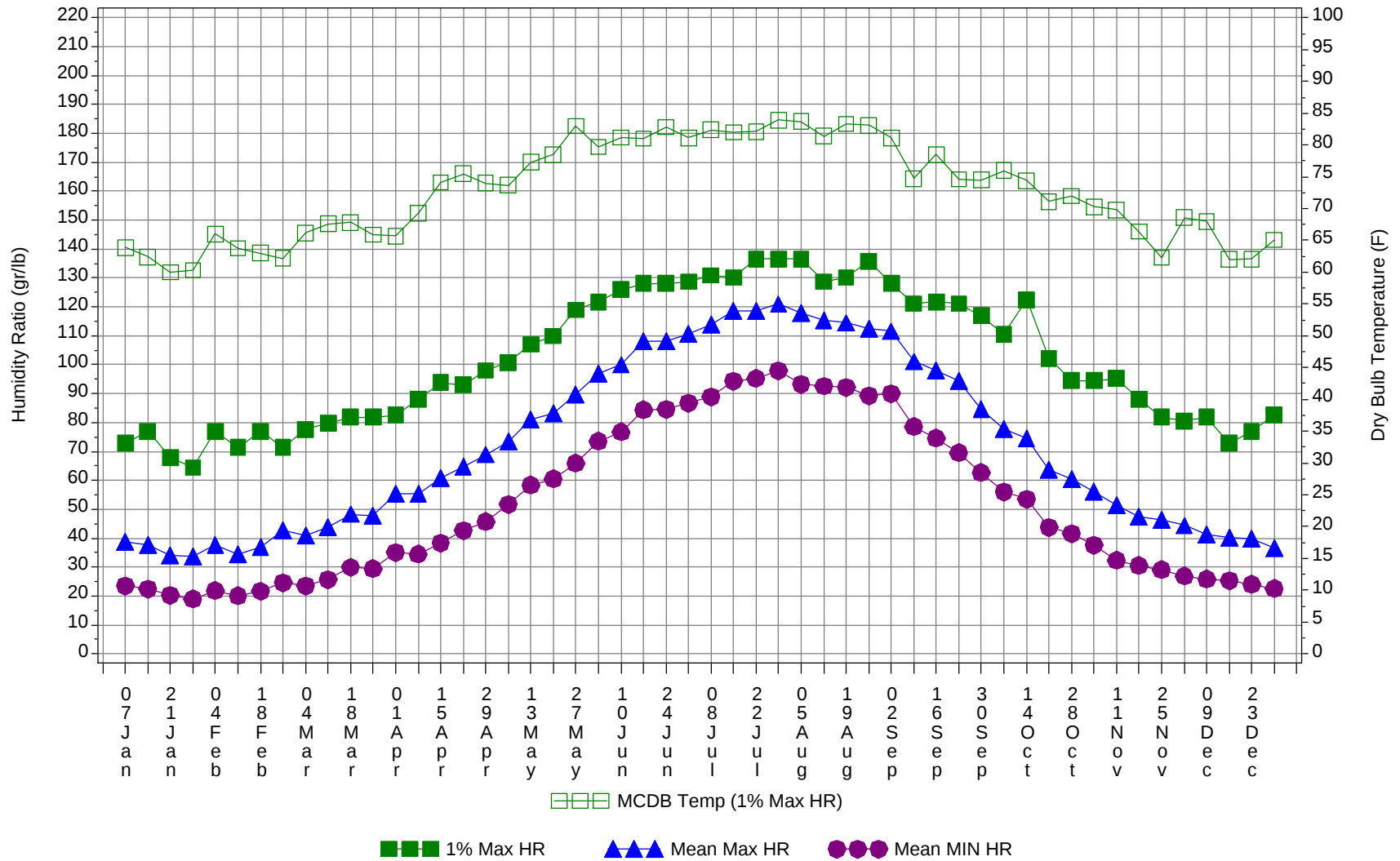
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109		0	0	0	73.5
100/104		1	0	1	72.1
95/ 99		11	4	15	74.4
90/ 94		95	40	135	73.6
85/ 89	0	179	83	262	72.5
80/ 84	8	370	224	602	70.5
75/ 79	107	339	326	772	68.5
70/ 74	457	331	426	1214	66.1
65/ 69	320	196	234	750	61.8
60/ 64	347	251	286	884	57.1
55/ 59	250	219	243	712	51.8
50/ 54	259	223	249	731	47.5
45/ 49	279	225	248	752	42.7
40/ 44	193	139	158	490	38.4
35/ 39	259	169	192	620	34.1
30/ 34	209	97	116	422	29.4
25/ 29	139	47	59	245	24.4
20/ 24	48	16	19	83	19.8
15/ 19	29	9	9	47	15.8
10/ 14	9	3	3	15	10.6
5/ 9	4	1	1	6	6.1
0/ 4	1	0	0	1	1.6
-5/ -1	0	0		0	-3.1
-10/ -6	0			0	-6.5

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.

Annual Summary of Temperatures



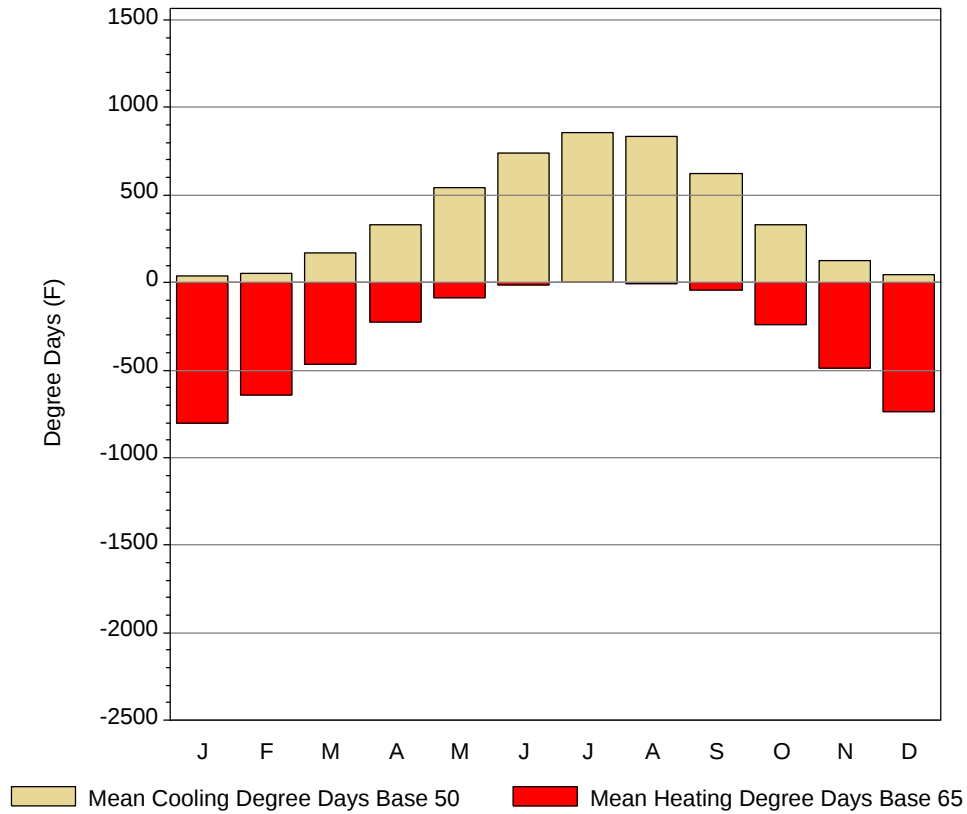
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

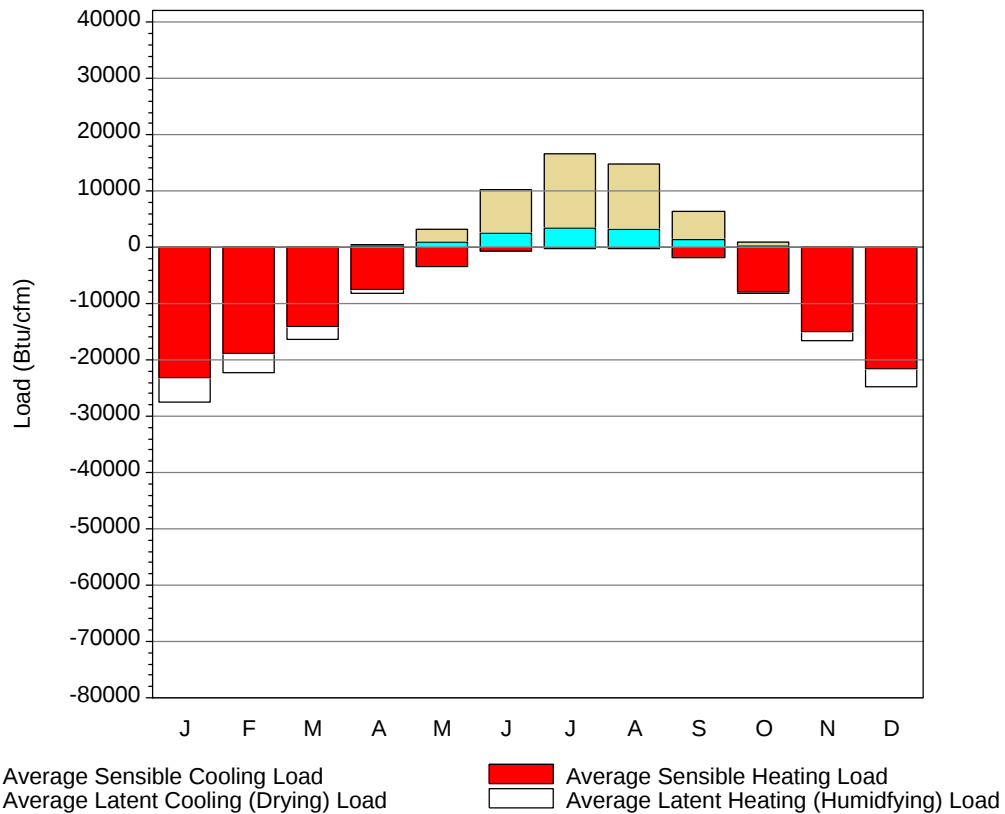
Week Ending	1.0% Temp (°F)	MCWB@ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB@ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	66	59.8	47.7	31.9	14	72.8	63.9	38.7	23.5
14-Jan	67	57.9	47.5	31.4	12	77	62.4	37.6	22.4
21-Jan	64	58.7	46.6	30.5	9	67.9	60	34	20.2
28-Jan	64	55.8	47.9	29.7	14	64.4	60.3	33.8	19
4-Feb	68	60.1	50.8	32.6	12	77	66	37.7	21.9
11-Feb	68	59.1	49.3	31	13	71.4	63.8	34.3	20
18-Feb	68	55.8	50.4	33.1	19	77	63	36.9	21.6
25-Feb	71	59.6	55.1	36.3	16	71.4	62.2	42.7	24.6
4-Mar	72	60.2	55	35.9	21	77.7	66.2	40.8	23.5
11-Mar	74	62.7	59.6	37.8	22	79.8	67.6	43.7	25.7
18-Mar	77	61.7	60.7	41.3	23	81.9	67.8	48.3	29.9
25-Mar	78	61.3	62.8	42.3	28	81.9	65.9	47.7	29.5
1-Apr	79	61.7	64.6	45.1	30	82.6	65.7	55.4	35.1
8-Apr	81	63.9	66.7	45.8	32	88.2	69.3	55.5	34.5
15-Apr	82	65.6	70.3	48.4	34	93.8	74.1	60.9	38.3
22-Apr	82	65.6	72	50.8	36	93.1	75.5	64.8	42.7
29-Apr	84	66.1	72.4	51.6	39	98	74	68.9	45.7
6-May	84	65.7	73.8	53.4	41	100.8	73.7	73.5	51.7
13-May	85	67.1	76.4	56.2	44	107.1	77.3	81	58.4
20-May	86	69.7	77.4	57	45	109.9	78.5	83.1	60.5
27-May	88	70.1	79.8	59.4	47	119	83	89.6	66
4-Jun	90	72.3	81.8	62.3	53	121.8	79.7	96.8	73.6
10-Jun	91	72.8	82.6	63.5	54	126	81.2	100	76.8
17-Jun	91	72.7	85.2	66.2	58	128.1	81	108.1	84.4
24-Jun	93	72.8	86.2	66.7	58	128.1	82.8	108.2	84.6
1-Jul	93	74	86.1	67.7	61	128.8	81.1	110.7	86.8
8-Jul	95	72.7	87.2	68.4	63	130.9	82.4	113.8	88.9
15-Jul	94	75.1	87.1	69.7	64	130.2	82	118.6	94.3
22-Jul	94	74.2	88	69.7	63	136.5	82.1	118.7	95.3
29-Jul	95	76.5	87.6	70	64	136.5	83.9	121	97.9
5-Aug	93	75.5	87.5	68.8	63	136.5	83.7	117.9	93.3
12-Aug	93	75.4	86.4	68.6	61	128.8	81.4	115.5	92.6
19-Aug	96	76.4	87.3	68.6	63	130.2	83.3	114.5	92.1
26-Aug	93	73	86.7	67.8	61	135.8	83.1	112.5	89.2
2-Sep	93	72	86.8	67.7	61	128.1	81.1	111.6	89.9
9-Sep	92	69.8	84.4	64.7	55	121.1	74.7	101.1	78.6
16-Sep	91	71.6	82.4	62.8	54	121.8	78.5	98	74.7
23-Sep	90	70.8	80.1	60.6	51	121.1	74.6	94.3	69.6
30-Sep	88	71.9	76.6	57.3	45	116.9	74.5	84.6	62.7
7-Oct	84	68.1	75.1	53.3	42	110.6	76	77.9	56
14-Oct	82	67.3	72.3	52.4	36	122.5	74.4	74.6	53.4
21-Oct	81	65	69.2	47.9	36	102.2	71.1	63.8	43.7
28-Oct	79	65	67	46	34	94.5	72	60.5	41.5
4-Nov	79	65	65.5	43.8	30	94.5	70.3	56	37.5
11-Nov	75	64.7	61.6	41.2	28	95.2	69.8	51.3	32.4
18-Nov	73	62	58.8	38.8	25	88.2	66.4	47.4	30.5
25-Nov	70	58.4	57.7	38.1	25	81.9	62.3	46.3	29.1
2-Dec	72	61.9	56	36.1	25	80.5	68.6	44.4	26.9
9-Dec	70	60.4	51.6	34.7	21	81.9	68	41.4	25.8
16-Dec	66	59.4	50.3	33.9	18	72.8	62	40.3	25.3
23-Dec	64	58.7	49.6	32.8	14	77	62.1	39.9	24
31-Dec	66	60	47.4	31.9	19	82.6	65.1	36.7	22.6

Degree Days, Heating and Cooling (Base 65 F) & Cooling (Base 50F)



Month	Mean Cooling Degree Days (°F) Base 50	Mean Cooling Degree Days (°F) Base 65	Mean Heating Degree Days (°F) Base 65
JAN	37.2	1.3	804.4
FEB	55.4	2.9	642.4
MAR	166.4	21.4	463.3
APR	332.8	70.9	226.3
MAY	543	161.2	88.8
JUN	743.3	304.4	11.2
JUL	856	392.6	1.6
AUG	832.6	370.8	3.2
SEP	625.7	215.6	41
OCT	328.5	63.4	237.2
NOV	122.7	11	490.9
DEC	46	1.8	737.2
ANN	4689.6	1617.3	3747.5

Average Ventilation and Infiltration Loads (Outside Air vs 75F, 60% RH summer; 68F, 30% RH winter)



Month	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	-23239	2	-4346
FEB	1	-18804	3	-3523
MAR	38	-14166	13	-2168
APR	280	-7531	261	-648
MAY	941	-3425	2276	-20
JUN	2460	-627	7726	0
JUL	3490	-143	13067	0
AUG	3246	-251	11523	0
SEP	1488	-1792	4792	-3
OCT	212	-7929	771	-238
NOV	11	-14908	120	-1640
DEC	0	-21491	19	-3361
ANN	12167	-114306	40573	-15947

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	KNOXVILLE, TN 13891	Window:	1.000
Lat, Lon, Elev	35.82N 83.98W 981ft	Overhang:	0.416
Press, Stn_Type	14.3psia Secondary	Vert Gap:	0.293

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	720	950	1270	1640	1840	1980	1870	1740	1440	1180	790	640	1340
	Std.Dev.	54	69	96	118	124	135	146	103	109	106	70	49	39
	Minimum	580	850	1100	1390	1670	1700	1570	1520	1240	1020	650	570	1290
	Maximum	830	1150	1470	1910	2160	2340	2130	1920	1660	1470	930	740	1440
	Diffuse	380	470	610	730	840	890	890	800	670	480	390	330	620
Clear Day	Global	1080	1420	1870	2280	2530	2610	2530	2290	1930	1480	1110	960	1840
NORTH	Global	230	290	370	450	550	620	580	490	400	310	240	200	390
	Diffuse	230	290	370	440	500	540	520	470	400	310	240	200	380
Clear Day	Global	210	260	340	430	580	680	630	490	380	300	220	190	390
EAST	Global	460	580	750	920	990	1040	990	940	810	700	490	400	760
	Diffuse	270	350	440	540	600	630	620	580	490	390	290	240	450
Clear Day	Global	780	970	1180	1340	1400	1410	1370	1290	1140	950	770	690	1110
SOUTH	Global	980	1040	1020	930	770	710	730	870	1010	1210	1030	940	940
	Diffuse	370	430	500	540	560	560	570	570	540	470	390	340	490
Clear Day	Global	2000	1970	1720	1280	940	800	850	1110	1490	1790	1890	1920	1480
WEST	Global	480	600	770	930	1000	1050	1000	970	830	730	510	420	780
	Diffuse	280	350	450	540	610	650	630	590	500	390	290	240	460
Clear Day	Global	780	970	1180	1340	1400	1410	1370	1290	1140	950	770	690	1110

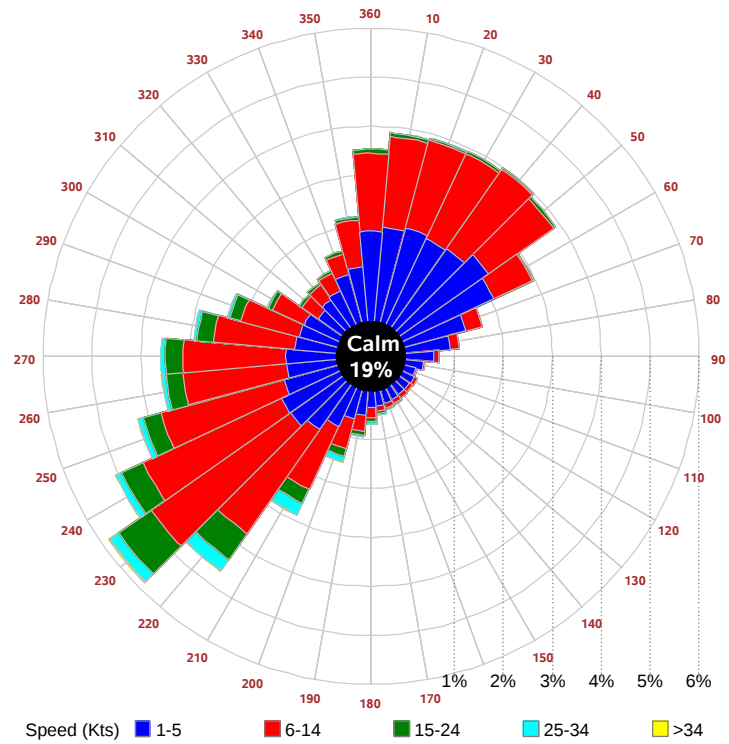
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	480	660	900	1180	1340	1440	1360	1260	1030	830	540	420	960
NORTH	Unshaded	160	200	250	310	360	400	380	330	280	220	170	140	270
	Shaded	140	180	230	280	330	360	350	300	260	200	150	130	240
EAST	Unshaded	320	410	530	650	700	730	700	660	570	490	340	280	530
	Shaded	290	370	480	580	620	650	620	590	510	450	310	250	480
SOUTH	Unshaded	730	760	700	590	470	430	450	540	670	860	760	700	640
	Shaded	710	710	580	430	350	360	360	390	520	770	740	690	550
WEST	Unshaded	330	420	540	660	710	740	710	690	590	510	360	290	550
	Shaded	300	390	490	590	630	660	630	610	530	470	330	270	490

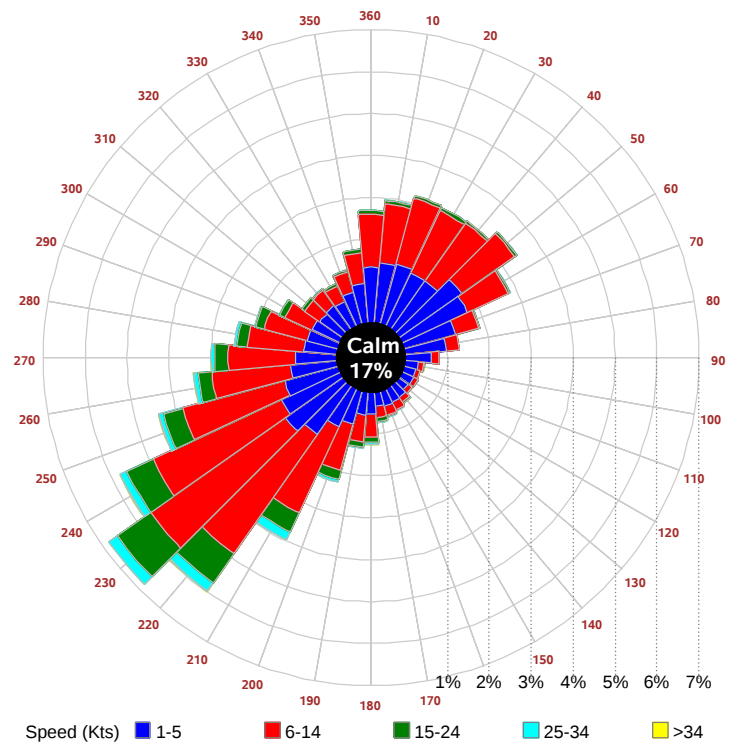
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	30	69	86	76	41	33	75	99	100	76	
	M.Cloudy	17	41	50	47	24	21	48	70	75	54	
NORTH	M.Clear	8	14	15	14	10	22	16	18	17	17	
	M.Cloudy	7	15	17	16	10	12	17	20	20	17	
EAST	M.Clear	70	67	22	14	10	64	78	45	17	17	
	M.Cloudy	20	31	19	16	10	25	42	35	20	17	
SOUTH	M.Clear	28	63	79	69	37	10	21	38	39	23	
	M.Cloudy	11	30	38	36	17	9	19	31	33	20	
WEST	M.Clear	8	14	15	58	75	10	16	18	40	73	
	M.Cloudy	7	15	17	32	27	9	17	20	33	46	
M.Clear	(% hrs)	31	30	30	30	31	38	42	38	35	37	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	16	60	85	84	59	10	41	54	42	10	
	M.Cloudy	10	34	56	58	37	6	23	29	24	7	
NORTH	M.Clear	6	14	17	17	14	4	10	11	10	4	
	M.Cloudy	5	13	18	18	14	3	10	12	10	3	
EAST	M.Clear	43	74	43	17	14	34	48	12	10	4	
	M.Cloudy	13	31	29	18	14	8	18	12	10	3	
SOUTH	M.Clear	10	45	68	67	45	26	74	91	75	27	
	M.Cloudy	6	22	40	42	25	6	24	29	26	7	
WEST	M.Clear	6	14	17	42	72	4	10	12	48	35	
	M.Cloudy	5	13	18	30	35	3	10	12	19	9	
M.Clear	(% hrs)	35	39	38	37	39	27	29	30	31	33	

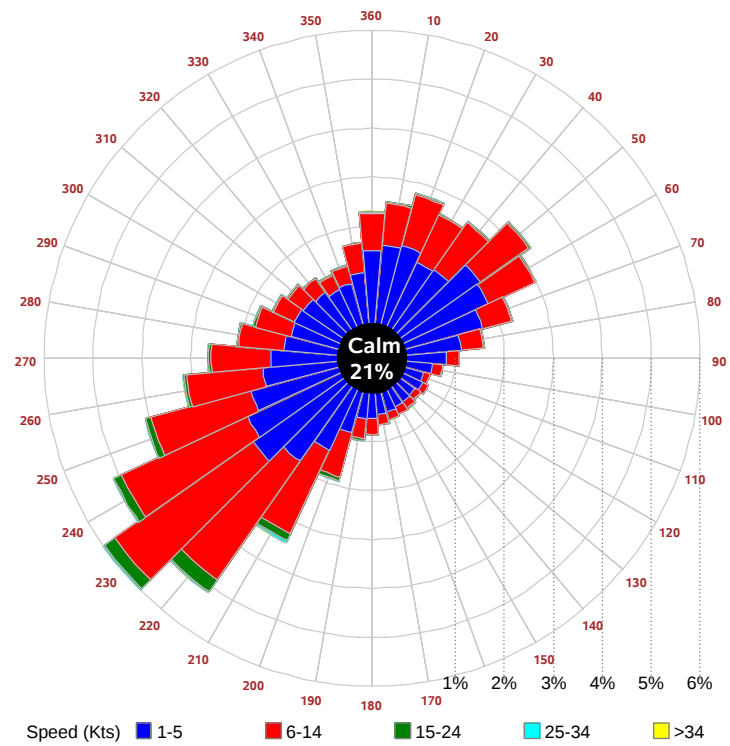
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

