

MERIDIAN NAS/MCCAIN MS

Latitude = 32.55 N

WMO No. 722345

Longitude = 88.57 W

Elevation = 318 feet

Period of Record = 1973 to 1996

Average Pressure = 29.70 inches Hg

Design Criteria Data

	Design Value	Mean Coincident (Average) Values			
		Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Dry Bulb Temperature (T)	(°F)				
Median of Extreme Highs	100	78	110	4.4	W
0.4% Occurrence	97	77	111	4.5	W
1.0% Occurrence	94	77	111	4.5	W
2.0% Occurrence	92	76	111	4.5	W
Mean Daily Range	23	-	-	-	-
97.5% Occurrence	29	27	17	2.7	N
99.0% Occurrence	24	22	13	3.0	N
99.6% Occurrence	20	18	11	3.6	N
Median of Extreme Lows	13	11	6	5.6	N
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T_{wb})	(°F)				
Median of Extreme Highs	83	93	151	3.7	W
0.4% Occurrence	80	91	134	3.8	W
1.0% Occurrence	79	90	131	3.7	W
2.0% Occurrence	78	88	127	3.7	W
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)	(gr/lb)				
Median of Extreme Highs	158	87	1.04	2.4	S
0.4% Occurrence	142	85	0.94	2.7	W
1.0% Occurrence	137	84	0.90	2.7	W
2.0% Occurrence	132	83	0.88	2.7	W
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		171	1456	1405	3047

Other Site Data

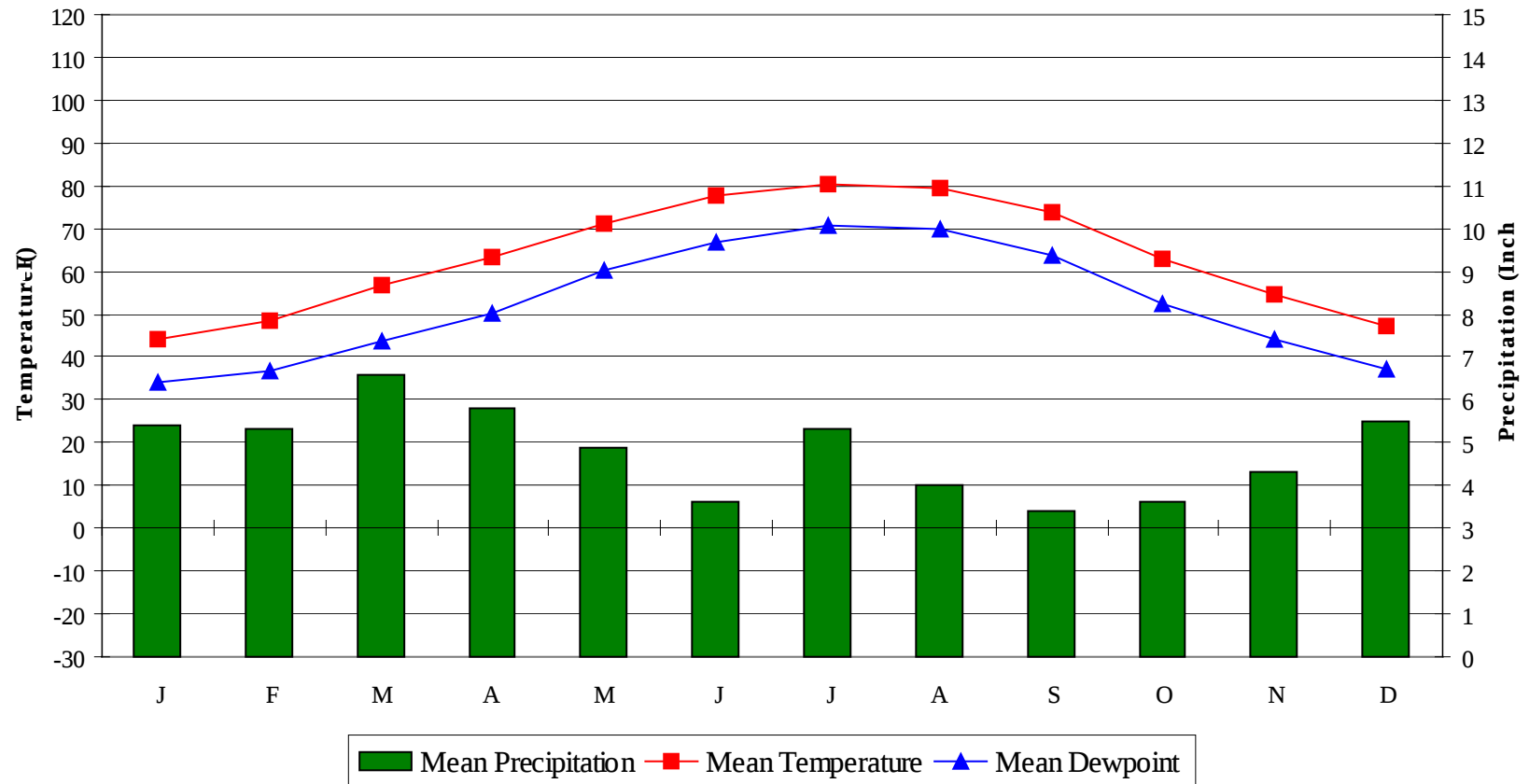
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
11	4.0	90	5.3 + 1.6
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
65.8	5	2	38

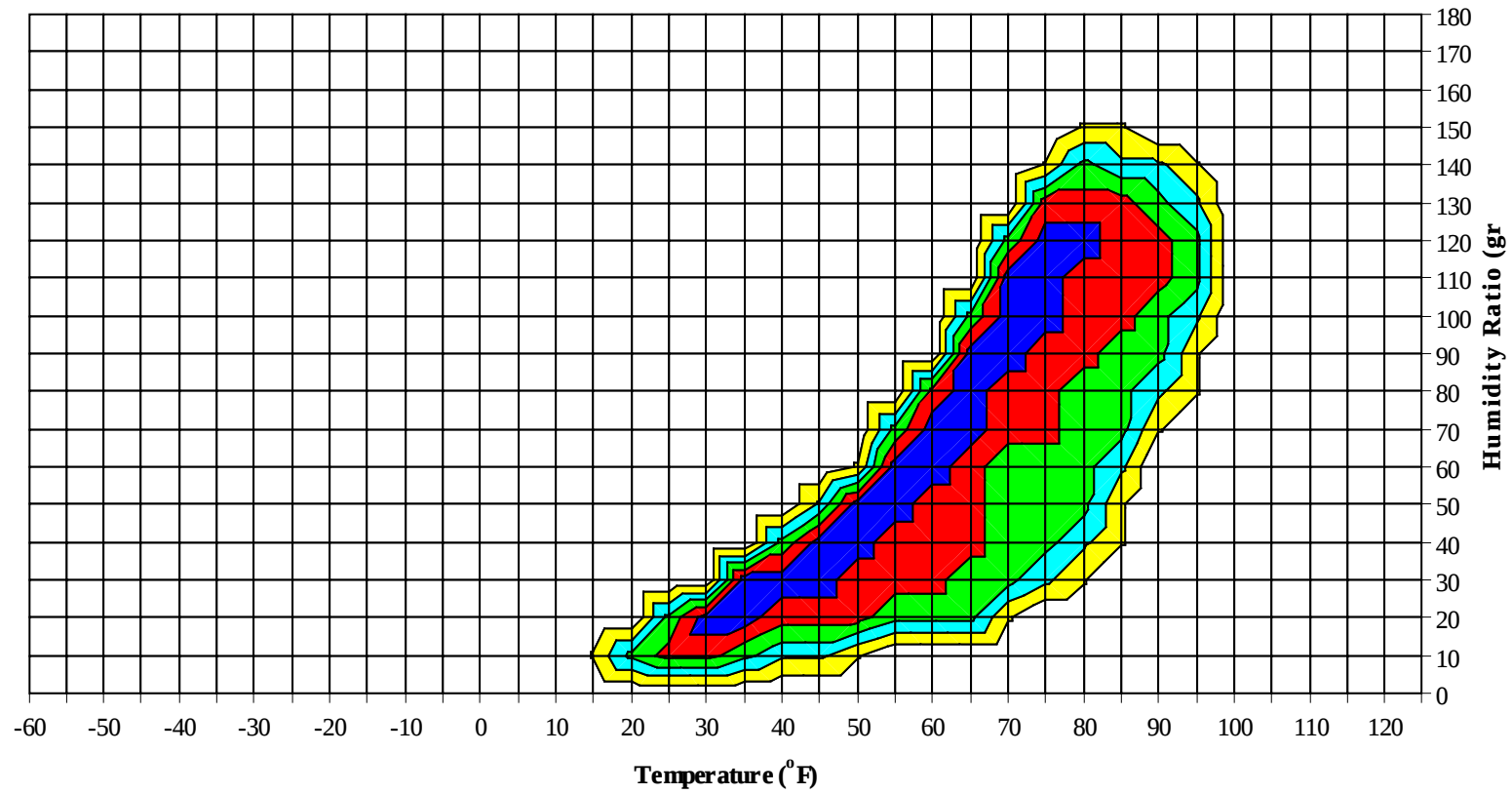
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

MERIDIAN NAS/MCCAIN MS

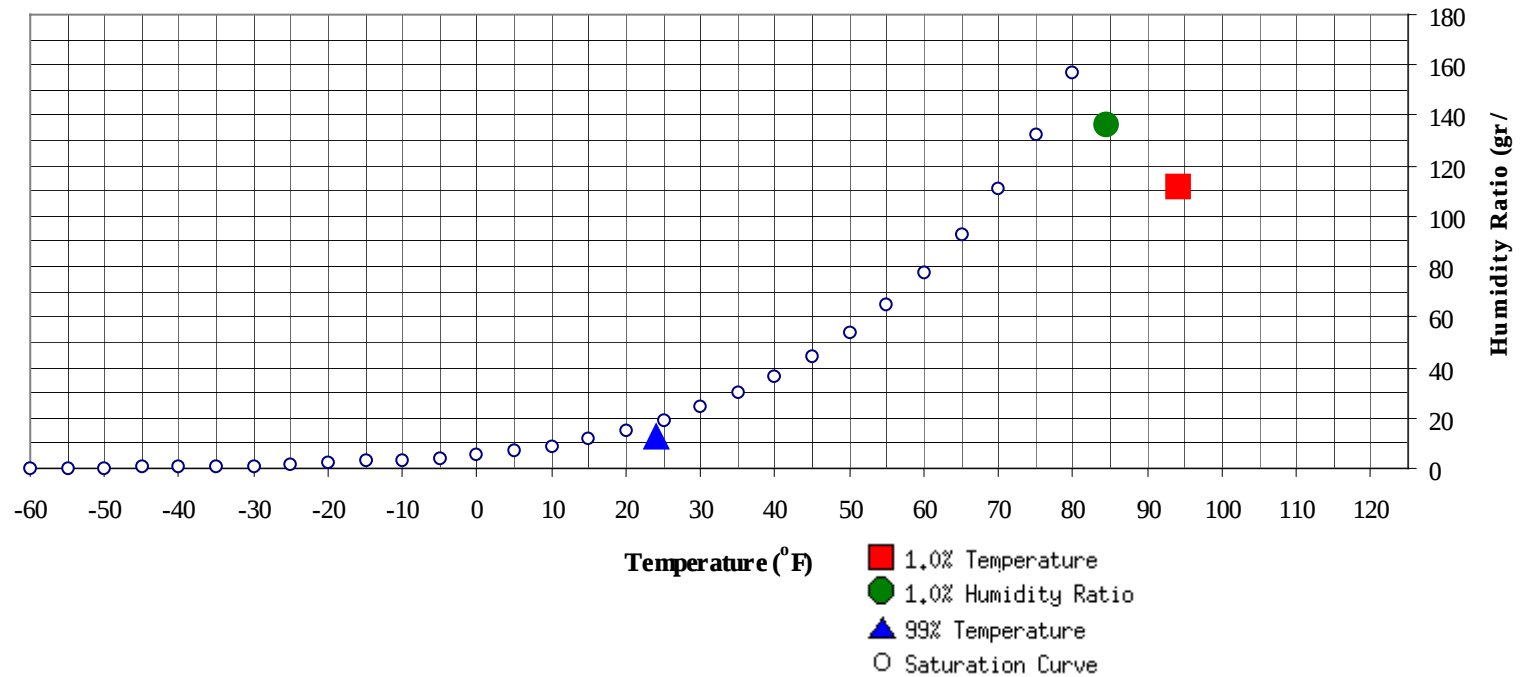
WMO No. 722345

Average Annual Climate



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

Psychrometric Summary of Peak Design Values

	(°F)	MCHR	Enthalpy	1.0% Humidity	(gr/lb)	MCDB	MCWB	MC Dewpt	Enthalpy
		(gr/lb)	(btu/lb)			(°F)	(°F)	(°F)	(btu/lb)
99% Dry Bulb	24	12.7	7.7	Ratio	136.5	84.5	78.2	75.9	41.7

	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
1.0% Dry Bulb	94	111.9	76.7	40.2

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

Period of Record = 1973 to 1996

Temperature Range (°F)	January					February					March				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94												0		0	64.0
85 / 89							0		0	67.8		3	0	3	66.4
80 / 84							2	0	3	65.1		14	3	17	64.2
75 / 79		3	0	3	64.4		9	1	10	61.7	0	30	11	42	62.8
70 / 74	0	10	2	13	61.8	1	19	7	27	60.7	6	37	22	65	61.2
65 / 69	6	18	9	32	59.6	7	29	16	52	58.2	16	41	32	90	58.6
60 / 64	12	25	18	55	55.7	14	31	24	69	54.8	31	38	39	109	55.6
55 / 59	13	31	22	65	51.3	21	31	27	78	51.1	34	31	39	104	51.2
50 / 54	21	40	31	92	47.1	22	26	28	77	46.5	39	25	35	99	47.1
45 / 49	25	37	33	94	42.5	28	27	31	87	42.4	32	14	26	72	42.8
40 / 44	29	32	41	102	38.1	29	21	29	78	38.0	32	8	21	61	38.5
35 / 39	42	24	35	101	33.8	33	15	25	74	33.6	28	4	12	45	34.3
30 / 34	40	16	28	85	29.1	31	10	19	59	29.2	21	1	6	28	30.1
25 / 29	34	8	20	62	24.7	22	3	11	36	24.9	5	0	1	7	25.0
20 / 24	17	3	5	25	20.1	12	1	2	15	20.5	1	0	0	2	20.6
15 / 19	7	1	2	9	15.4	3	0	1	4	16.3	1		0	1	16.1
10 / 14	2	1	0	3	10.8	1	0	0	1	11.5	0			0	12.5
5 / 9	1	0	1	2	5.8	0		0	1	6.9					
0 / 4	1		0	1	1.5										

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 (Sheet 2 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	April					May					June				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
110 / 114											0			0	84.0
105 / 109											0			0	84.0
100 / 104											0	1	0	1	76.1
95 / 99		0		0	66.0	0	1	0	1	76.9	0	12	2	14	75.7
90 / 94		2	0	2	67.8	0	13	1	15	74.1	0	50	10	60	75.4
85 / 89		12	1	13	67.6	0	48	10	58	71.7	2	79	23	104	74.0
80 / 84	0	39	9	47	65.9	2	66	22	90	69.4	13	58	37	108	72.6
75 / 79	1	52	20	73	64.1	15	55	39	110	68.1	45	26	65	136	71.3
70 / 74	13	43	34	91	62.4	44	36	62	142	66.3	90	11	68	170	69.0
65 / 69	31	41	47	119	59.8	70	19	58	148	63.4	56	2	26	85	64.9
60 / 64	45	29	45	119	56.6	52	8	30	90	59.0	24	0	7	31	60.0
55 / 59	41	14	35	90	52.2	32	2	16	49	54.2	7		2	9	55.2
50 / 54	39	6	25	70	48.1	21	0	7	28	49.7	2		0	3	51.0
45 / 49	29	2	14	45	43.8	9		2	11	45.3	1		0	1	45.4
40 / 44	22	1	8	31	39.7	3		0	4	41.2	0			0	41.8
35 / 39	13	0	2	15	35.6	0			0	37.8					
30 / 34	4		0	4	31.0										
25 / 29	0			0	28.0										
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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MERIDIAN NAS/MCCAIN MS

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Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)**Period of Record = 1973 to 1996**

Temperature Range (°F)	July					August					September				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
110 / 114															
105 / 109															
100 / 104		3	0	3	79.2		2	0	3	78.2		1		1	77.1
95 / 99		26	4	31	78.2		24	2	26	77.5		8	0	9	76.1
90 / 94	0	76	16	91	77.3	0	66	12	78	76.5		34	4	38	74.8
85 / 89	5	74	25	105	76.3	2	80	26	109	75.5	0	55	12	67	73.4
80 / 84	20	43	46	108	75.0	14	48	45	107	74.4	4	59	23	87	72.0
75 / 79	75	20	89	184	73.1	58	21	84	163	72.8	29	43	57	130	70.6
70 / 74	118	6	62	185	70.3	124	6	66	195	70.0	74	26	68	168	68.3
65 / 69	26	0	5	31	65.8	40	1	11	52	65.4	52	9	37	98	63.8
60 / 64	5		0	5	61.3	9	0	1	10	60.7	39	5	23	67	59.1
55 / 59	0			0	59.0	2		0	2	55.4	24	1	10	34	54.3
50 / 54											11	0	4	15	49.6
45 / 49											5		1	6	45.1
40 / 44											2			2	40.8
35 / 39											0			0	38.0
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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 (Sheet 4 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	October					November					December				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
110 / 114															
105 / 109															
100 / 104															
95 / 99		0		0	69.5										
90 / 94		2	0	2	73.1		0		0	66.0					
85 / 89		13	1	14	70.0		0		0	64.0					
80 / 84	0	38	4	42	67.8		8	0	8	65.8		1	0	1	69.1
75 / 79	3	53	14	69	65.7	1	27	4	32	65.8	1	6	1	7	67.1
70 / 74	16	54	34	104	64.2	7	34	14	55	63.8	4	18	6	28	63.9
65 / 69	33	41	43	117	61.4	19	40	25	84	60.4	9	25	14	48	60.5
60 / 64	38	26	46	110	57.6	24	40	35	98	56.4	16	32	22	71	56.3
55 / 59	42	14	39	96	53.5	26	32	32	89	51.7	18	34	25	76	51.2
50 / 54	35	5	31	72	48.8	28	30	34	92	47.3	23	41	31	95	46.9
45 / 49	33	1	22	55	44.6	35	16	35	86	43.2	27	35	34	96	42.6
40 / 44	27	1	11	39	40.0	33	9	27	68	38.9	32	26	38	96	38.3
35 / 39	16	0	3	19	35.7	28	4	20	52	34.6	32	17	33	82	33.9
30 / 34	4		0	5	31.1	29	0	11	40	30.3	38	8	25	72	29.5
25 / 29						11	0	2	13	26.2	30	3	15	48	25.1
20 / 24						1		0	1	21.4	12	1	2	15	20.4
15 / 19						0			0	17.0	3	1	1	5	15.1
10 / 14											1	0	1	3	9.9
5 / 9											1	0	0	2	5.9
0 / 4											0			0	2.5

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MERIDIAN NAS/MCCAIN MS

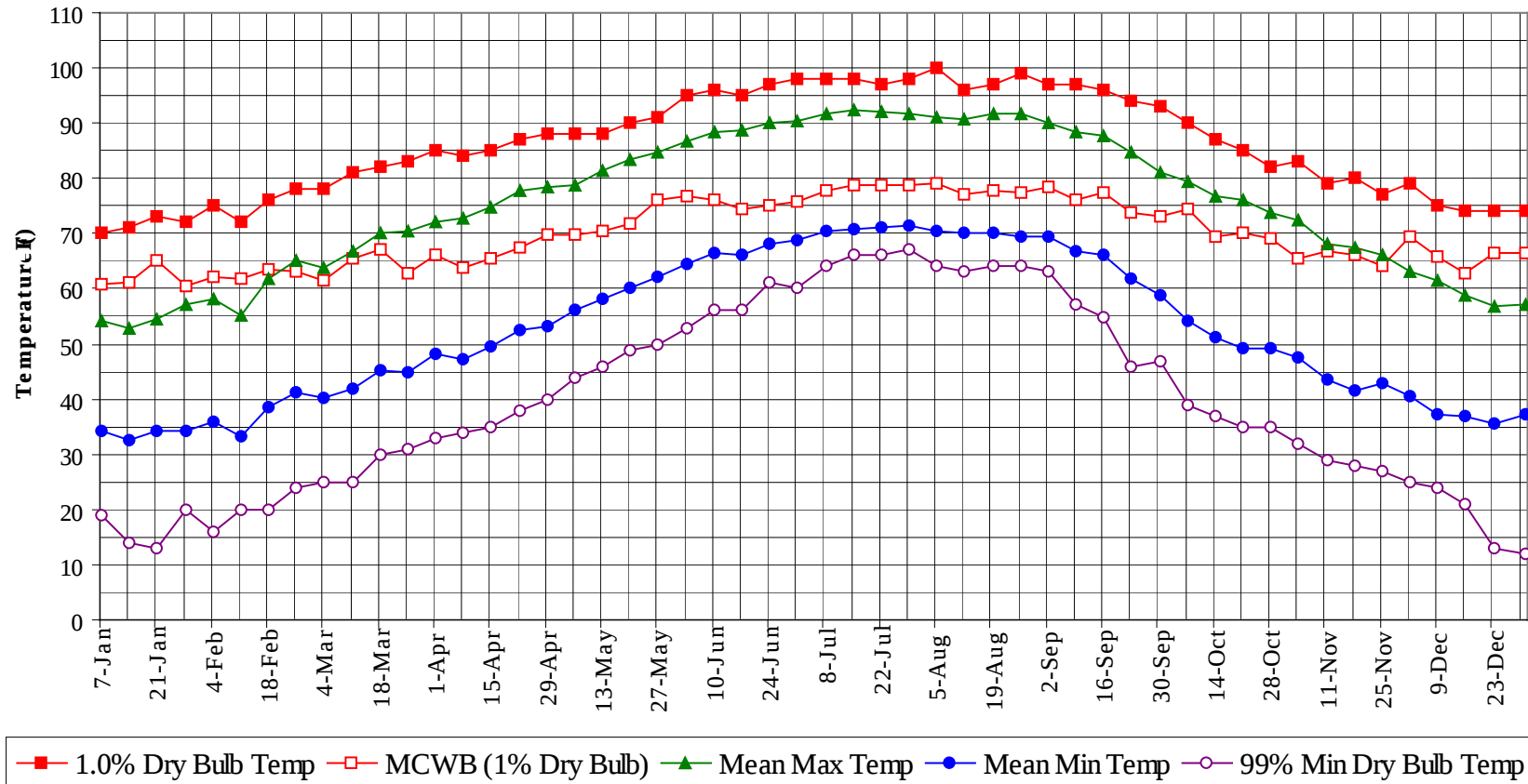
WMO No. 722345

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**Period of Record = 1973 to 1996**

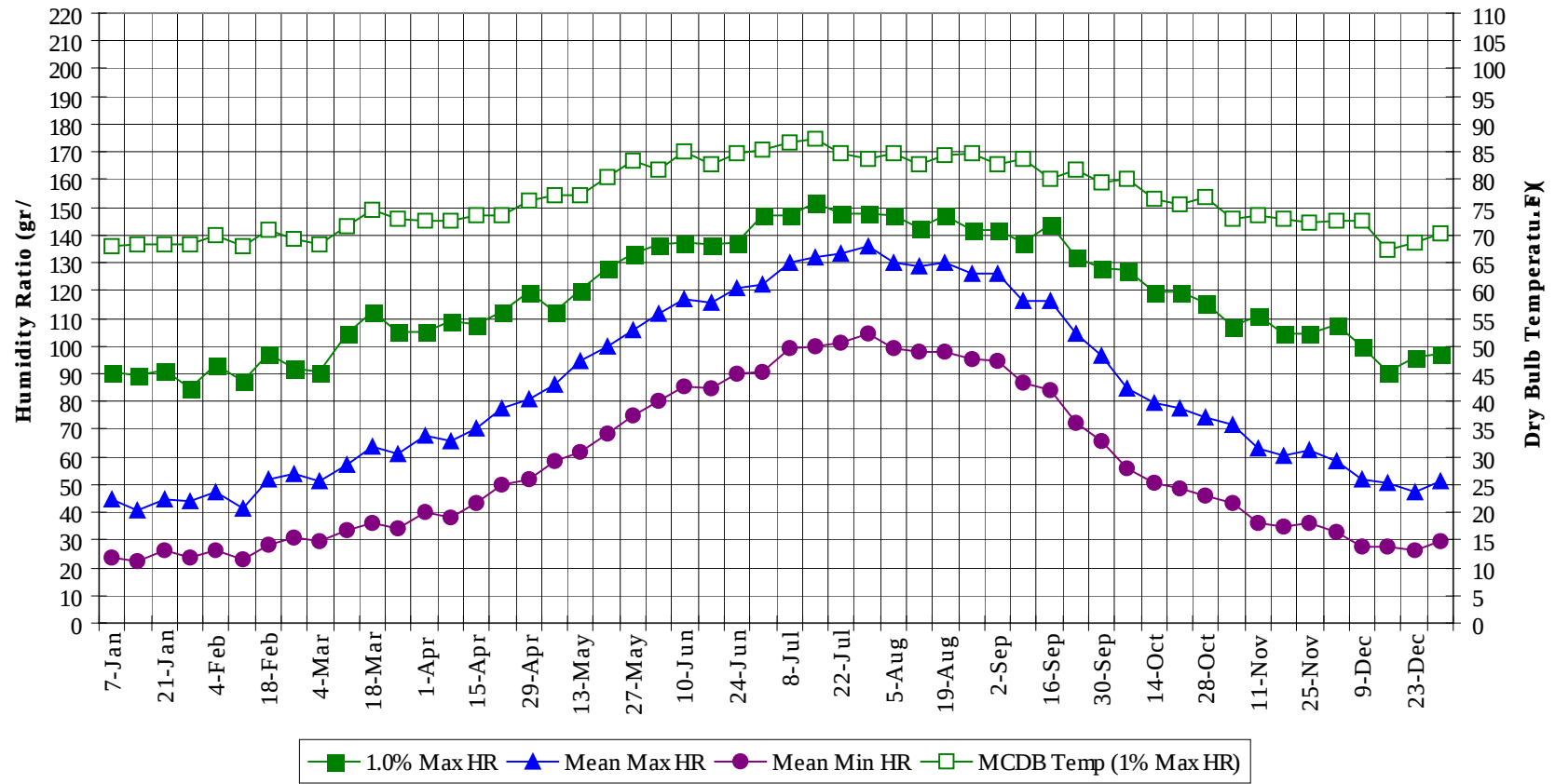
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
110 / 114	0			0	84.0
105 / 109	0			0	84.0
100 / 104	0	7	1	8	78.2
95 / 99	0	71	9	80	77.3
90 / 94	0	243	42	286	76.1
85 / 89	9	366	99	474	74.1
80 / 84	53	374	189	617	71.6
75 / 79	227	346	386	958	69.8
70 / 74	495	301	445	1240	67.1
65 / 69	367	266	323	956	61.8
60 / 64	309	233	291	833	57.0
55 / 59	260	189	245	694	52.1
50 / 54	242	173	228	643	47.5
45 / 49	223	131	199	553	43.1
40 / 44	209	98	175	481	38.6
35 / 39	194	64	130	388	34.1
30 / 34	168	36	89	293	29.5
25 / 29	101	15	50	167	25.0
20 / 24	44	5	11	59	20.3
15 / 19	14	2	4	20	15.6
10 / 14	4	1	2	7	10.6
5 / 9	2	0	1	4	6.0
0 / 4	1		0	1	1.6

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.

Annual Summary of Temperatures



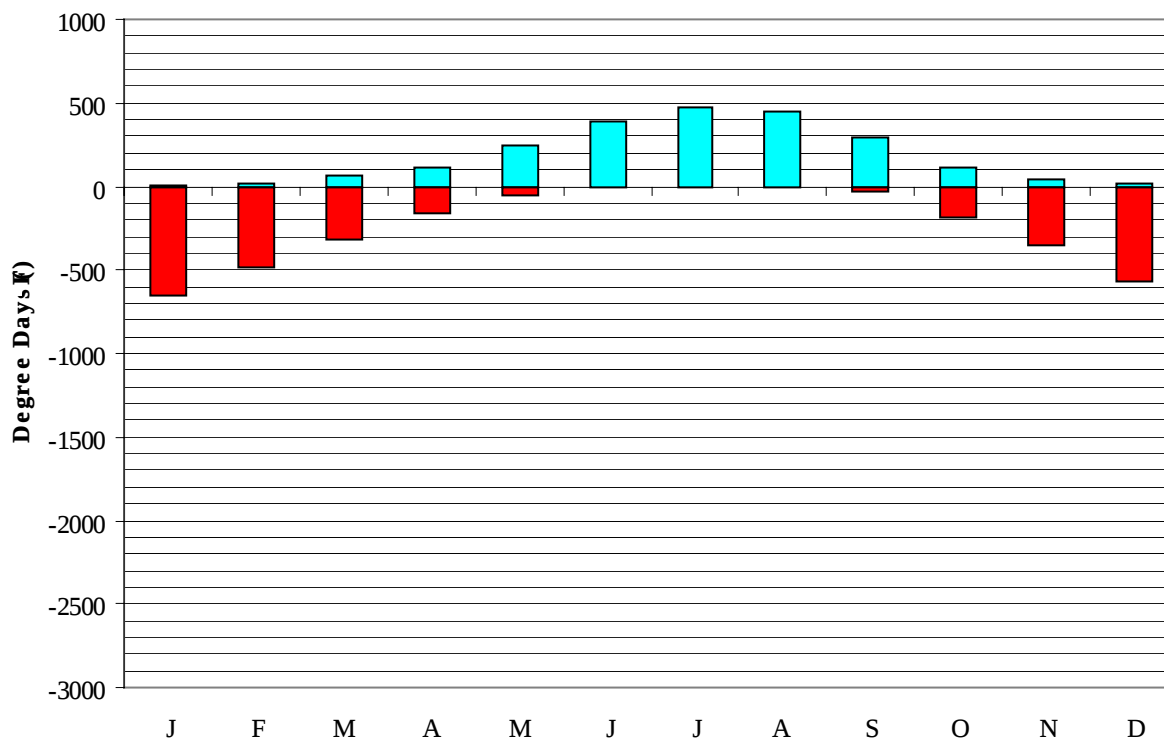
Long Term Humidity and Dry Bulb Temperature Summary



MERIDIAN NAS/MCCAIN MS
WMO No. 722345
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	70.0	60.9	54.3	34.3	19.0	90.3	68.0	44.8	23.9
14-Jan	71.0	61.0	52.7	32.5	14.0	89.6	68.3	41.0	22.2
21-Jan	73.0	65.2	54.6	34.3	13.0	91.0	68.2	44.8	26.0
28-Jan	72.0	60.5	57.0	34.1	20.0	84.7	68.4	43.9	23.5
4-Feb	75.0	62.2	58.3	36.0	16.0	93.1	70.0	47.2	26.0
11-Feb	72.0	61.7	55.3	33.3	20.0	87.5	68.1	41.7	23.0
18-Feb	76.0	63.4	61.8	38.5	20.0	97.3	70.8	52.1	28.3
25-Feb	78.0	63.1	65.0	41.2	24.0	91.7	69.4	54.0	30.7
4-Mar	78.0	61.3	63.9	40.1	25.0	90.3	68.3	51.2	29.7
11-Mar	81.0	65.4	66.8	42.0	25.0	104.3	71.5	57.1	33.4
18-Mar	82.0	67.0	70.1	45.3	30.0	112.0	74.5	63.4	35.9
25-Mar	83.0	62.8	70.3	44.8	31.0	105.0	72.9	61.0	34.3
1-Apr	85.0	66.1	72.1	48.3	33.0	105.0	72.7	67.4	40.1
8-Apr	84.0	63.9	72.9	47.1	34.0	109.2	72.5	65.4	37.8
15-Apr	85.0	65.4	74.9	49.4	35.0	107.8	73.6	70.0	43.3
22-Apr	87.0	67.6	77.8	52.4	38.0	112.0	73.7	77.2	49.9
29-Apr	88.0	69.8	78.6	53.1	40.0	119.7	76.2	80.7	51.6
6-May	88.0	69.8	78.9	56.2	44.0	112.0	77.3	85.9	58.2
13-May	88.0	70.4	81.3	58.1	46.0	120.4	77.3	94.2	61.9
20-May	90.0	71.7	83.5	60.2	49.0	128.1	80.4	99.7	68.4
27-May	91.0	76.1	84.8	62.3	50.0	133.0	83.4	105.9	75.0
3-Jun	95.0	76.8	86.7	64.4	53.0	136.5	81.7	111.9	80.0
10-Jun	96.0	75.9	88.6	66.3	56.0	137.2	84.9	117.0	85.6
17-Jun	95.0	74.4	88.8	66.1	56.0	136.5	82.7	115.9	84.4
24-Jun	97.0	75.0	89.9	68.1	61.0	137.2	84.9	121.0	89.8
1-Jul	98.0	75.8	90.5	68.6	60.0	147.0	85.5	122.2	90.8
8-Jul	98.0	77.9	91.7	70.5	64.0	147.0	86.7	129.9	98.9
15-Jul	98.0	78.8	92.3	70.9	66.0	151.9	87.4	132.0	99.9
22-Jul	97.0	78.8	92.0	71.1	66.0	147.7	84.7	133.1	101.2
29-Jul	98.0	78.7	91.6	71.5	67.0	147.7	83.7	135.8	104.3
5-Aug	100.0	79.2	91.0	70.6	64.0	147.0	84.6	130.2	99.2
12-Aug	96.0	77.1	90.9	70.0	63.0	142.8	82.8	128.7	97.6
19-Aug	97.0	77.7	91.6	70.2	64.0	147.0	84.2	130.1	98.0
26-Aug	99.0	77.3	91.9	69.5	64.0	142.1	84.6	126.4	95.2
2-Sep	97.0	78.3	90.2	69.4	63.0	142.1	82.7	125.8	94.6
9-Sep	97.0	76.2	88.5	66.9	57.0	137.2	83.7	116.2	86.5
16-Sep	96.0	77.4	87.8	66.1	55.0	143.5	80.2	116.1	84.2
23-Sep	94.0	73.9	84.8	61.8	46.0	132.3	81.9	104.4	72.2
30-Sep	93.0	73.3	81.2	58.9	47.0	128.1	79.5	96.4	65.4
7-Oct	90.0	74.4	79.4	54.3	39.0	127.4	80.1	84.7	56.1
14-Oct	87.0	69.4	76.8	51.3	37.0	119.7	76.4	79.3	50.5
21-Oct	85.0	70.3	76.0	49.2	35.0	119.7	75.4	77.4	48.3
28-Oct	82.0	69.2	73.9	49.0	35.0	115.5	76.9	74.1	46.1
4-Nov	83.0	65.5	72.6	47.6	32.0	107.1	72.9	71.3	43.5
11-Nov	79.0	66.9	68.2	43.5	29.0	111.3	73.6	62.9	36.0
18-Nov	80.0	66.2	67.6	41.5	28.0	104.3	73.0	60.1	34.5
25-Nov	77.0	64.1	66.2	43.0	27.0	104.3	72.2	62.5	36.0
2-Dec	79.0	69.5	63.2	40.5	25.0	107.8	72.5	58.1	33.0
9-Dec	75.0	65.9	61.6	37.2	24.0	100.1	72.7	51.6	27.8
16-Dec	74.0	62.7	59.0	37.0	21.0	90.3	67.2	50.4	27.5
23-Dec	74.0	66.6	56.9	35.7	13.0	95.9	68.7	47.5	26.6
31-Dec	74.0	66.4	57.1	37.2	12.0	97.3	70.1	51.0	29.3

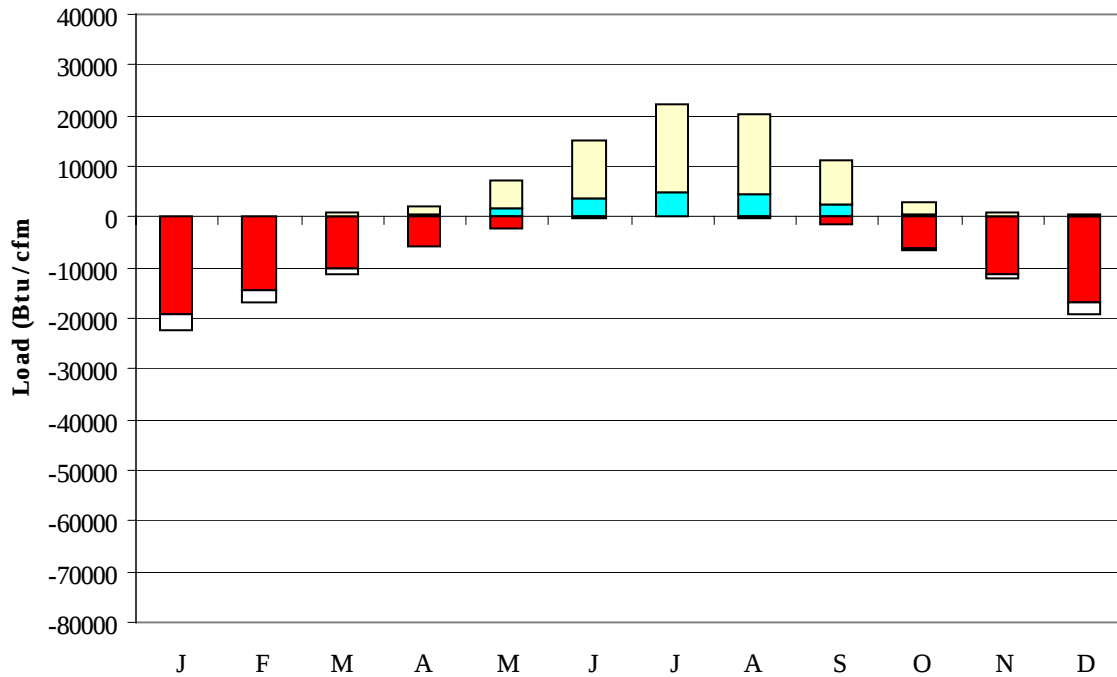
Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	7	653
FEB	18	483
MAR	60	318
APR	117	166
MAY	240	52
JUN	384	8
JUL	471	0
AUG	445	1
SEP	299	32
OCT	117	188
NOV	43	358
DEC	16	564
ANN	2216	2823

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



■ Average Sensible Cooling Load	■ Average Sensible Heating Load
■ Average Latent Cooling (Drying) Load	■ Average Latent Heating (Humidifying) Load

	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	2	-19227	121	-3126
FEB	35	-14496	177	-2283
MAR	232	-10078	602	-1080
APR	676	-5673	1247	-246
MAY	1881	-2108	5242	-2
JUN	3838	-421	11195	0
JUL	4970	-50	17450	0
AUG	4591	-114	15684	0
SEP	2629	-1339	8635	0
OCT	648	-6299	2286	-167
NOV	112	-11156	845	-1039
DEC	19	-16819	343	-2460
ANN	19633	-87780	63827	-10403

Average Annual Solar Radiation – Nearest Available Site

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

City: MERIDIAN
 State: MS
 WBAN No: 13865
 Lat(N): 32.33
 Long(W): 88.75
 Elev(ft): 308

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.321
 Vert Gap: 0.257

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	820	1070	1380	1720	1880	1960	1870	1770	1510	1290	930	760	1420
	Std Dev	63	86	103	119	111	118	119	105	107	114	80	62	31
	Minimum	700	930	1180	1510	1710	1700	1640	1530	1300	1020	710	650	1340
	Maximum	950	1220	1620	2040	2150	2190	2070	1990	1730	1520	1070	880	1480
	Diffuse	400	490	620	730	860	920	920	860	710	510	420	370	650
Clear Day	Global	1220	1540	1960	2320	2520	2570	2510	2310	2000	1600	1250	1100	1910
NORTH	Global	250	310	380	460	560	630	590	510	420	340	270	230	410
	Diffuse	250	310	380	450	510	540	530	490	420	340	270	230	390
Clear Day	Global	230	280	350	440	590	690	630	490	400	320	250	210	410
EAST	Global	500	650	790	940	1000	1050	1030	1000	870	770	560	470	800
	Diffuse	290	360	460	540	610	650	640	610	520	420	320	270	480
Clear Day	Global	840	1010	1210	1330	1360	1360	1340	1270	1160	990	830	770	1120
SOUTH	Global	1040	1120	1040	890	710	640	660	810	990	1230	1140	1050	940
	Diffuse	390	450	510	540	550	550	550	580	560	500	430	370	500
Clear Day	Global	2020	1940	1630	1170	820	690	740	1000	1390	1740	1910	1970	1420
WEST	Global	520	670	820	970	1020	1020	950	930	850	780	590	490	800
	Diffuse	300	370	470	550	620	650	630	610	530	420	330	280	480
Clear Day	Global	840	1010	1210	1330	1360	1360	1340	1270	1160	990	830	770	1120

Average Annual Solar Heat and Illumination – Nearest Available Site

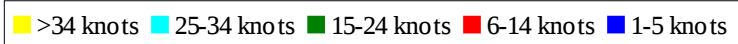
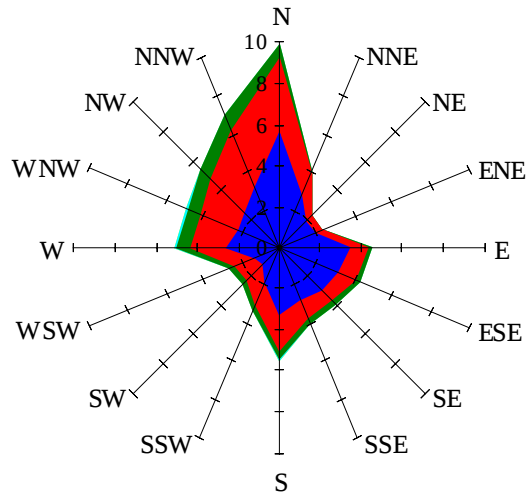
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	550	750	990	1250	1370	1430	1360	1280	1090	920	640	510	1010
NORTH	Unshaded	170	210	260	310	370	410	380	340	290	230	180	160	280
	Shaded	160	200	250	290	340	380	360	320	270	220	170	150	260
EAST	Unshaded	350	450	560	660	710	740	730	710	620	540	390	330	570
	Shaded	330	420	520	610	650	680	670	650	570	510	360	310	520
SOUTH	Unshaded	770	800	700	550	430	400	410	500	640	860	840	780	640
	Shaded	750	760	600	430	360	360	360	400	530	790	820	770	580
WEST	Unshaded	360	470	580	690	730	720	670	650	600	550	410	340	570
	Shaded	340	440	540	630	670	660	610	600	560	510	380	320	520

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	48	82	90	70	27	48	86	102	95	63
	M.Cloudy	26	50	55	42	17	31	61	77	73	46
NORTH	M.Clear	11	15	16	14	8	23	18	17	18	19
	M.Cloudy	11	17	18	15	7	16	19	20	20	17
EAST	M.Clear	78	55	16	14	8	74	70	28	18	16
	M.Cloudy	27	32	18	15	7	34	46	26	20	16
SOUTH	M.Clear	40	67	74	58	23	13	24	34	30	16
	M.Cloudy	17	36	41	31	11	12	22	30	27	16
WEST	M.Clear	11	15	27	71	66	13	18	17	55	74
	M.Cloudy	11	17	23	35	23	12	19	20	44	46
M.Clear	(% hrs)	33	34	33	32	37	44	40	28	28	33
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	32	74	91	80	46	26	55	59	37	4
	M.Cloudy	20	48	63	56	32	14	30	35	21	3
NORTH	M.Clear	10	16	18	17	13	7	12	12	9	2
	M.Cloudy	9	17	19	18	12	6	12	13	9	2
EAST	M.Clear	64	69	26	17	13	55	41	12	9	2
	M.Cloudy	24	38	24	18	12	14	19	13	9	2
SOUTH	M.Clear	21	52	68	59	31	51	85	90	65	10
	M.Cloudy	11	31	43	38	19	13	30	35	21	3
WEST	M.Clear	10	16	18	57	70	7	12	27	56	15
	M.Cloudy	9	17	19	37	35	6	12	17	19	4
M.Clear	(% hrs)	45	45	35	34	38	33	34	33	35	37

Wind Summary - December, January, and February

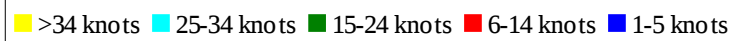
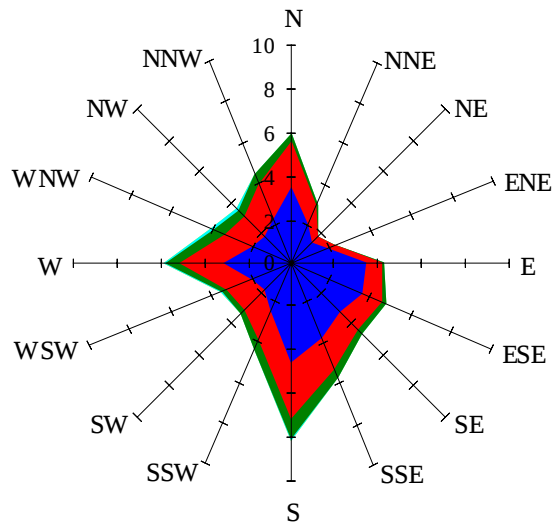
Labels of Percent Frequency on North Axis



Percent Calm = 29.36

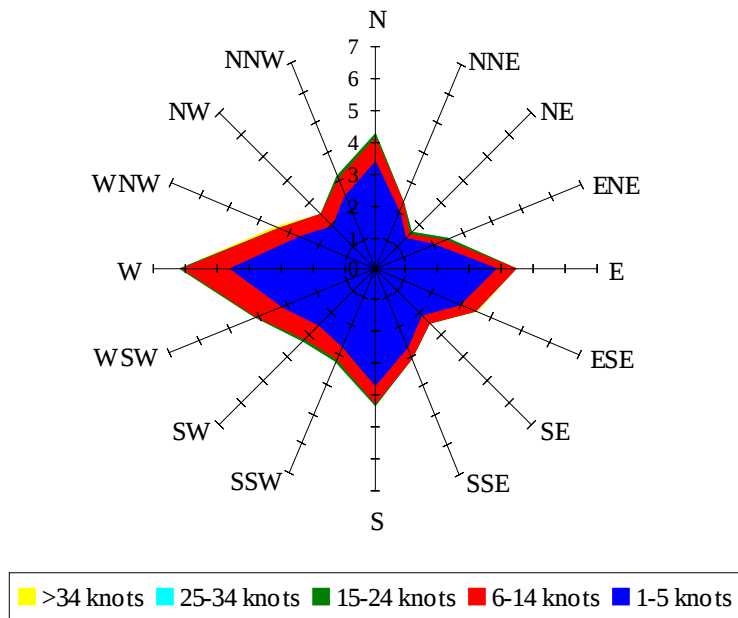
Wind Summary - March, April, and May

Labels of Percent Frequency on North Axis



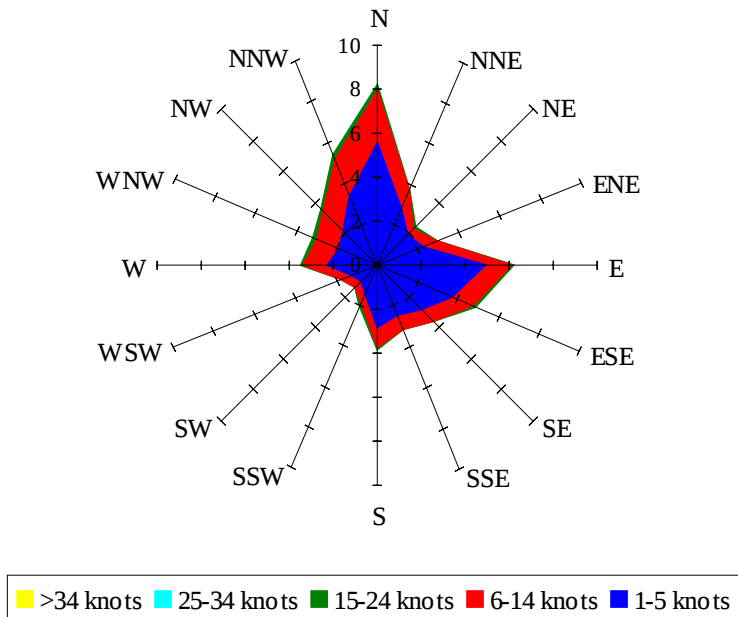
Percent Calm = 31.41

Wind Summary - June, July, and August **Labels of Percent Frequency on North Axis**



Percent Calm = 46.38

Wind Summary - September, October, and November **Labels of Percent Frequency on North Axis**



Percent Calm = 39.99