ANNISTON/CALHOUN AL	
Latitude = 33.58 N	WMO No. 722287
Longitude = 85.85 W	Elevation = 610 feet
Period of Record = 1973 to 1996	Average Pressure = 29.39 inches Hg

Design Criteria Data

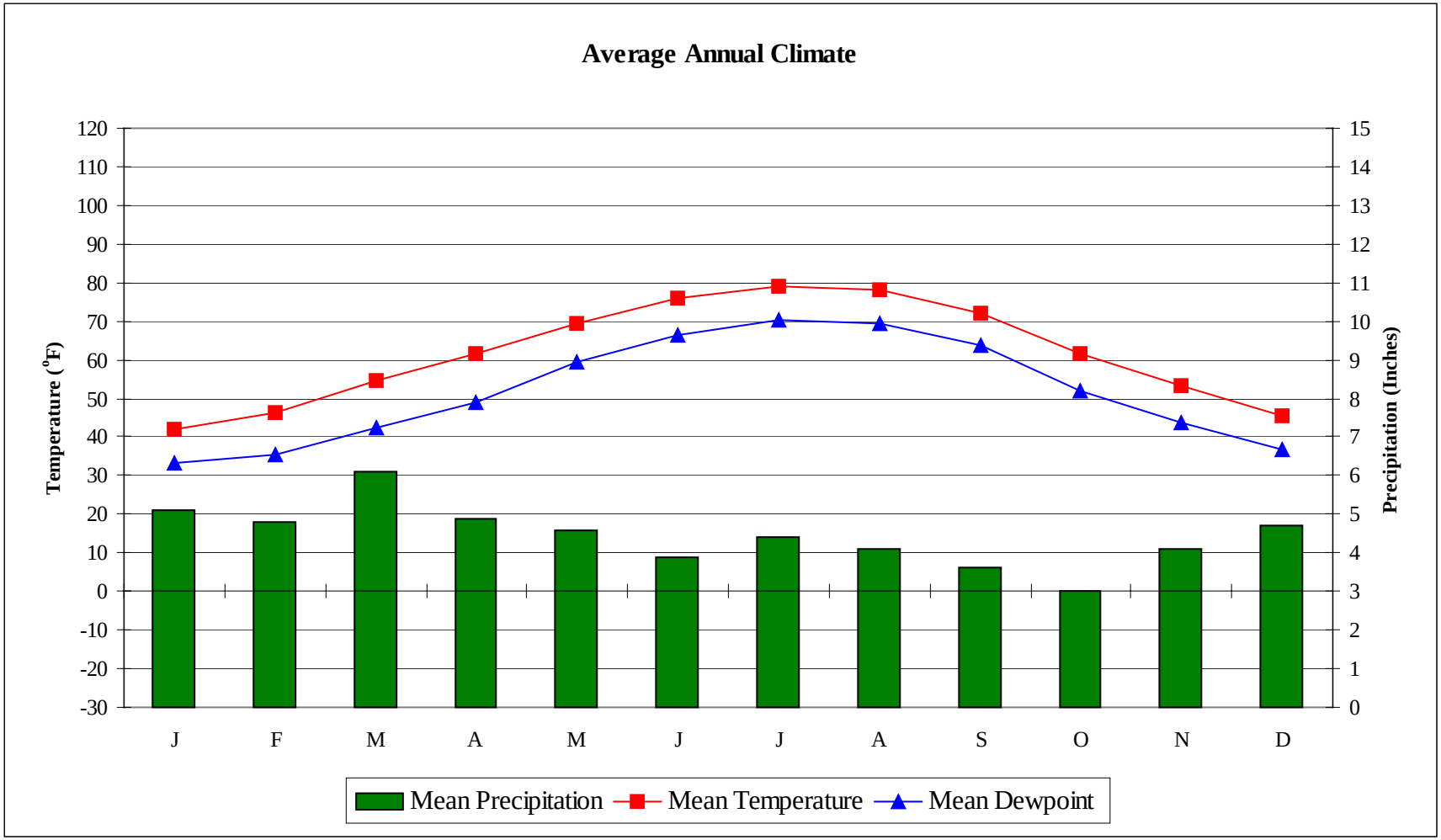
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	98	77	108	8.0	W
0.4% Occurrence	95	76	108	7.6	WSW
1.0% Occurrence	93	76	110	7.2	WSW
2.0% Occurrence	91	75	110	7.1	WSW
Mean Daily Range	22	-	-	-	-
97.5% Occurrence	28	26	17	5.3	E
99.0% Occurrence	23	21	13	5.5	WSW
99.6% Occurrence	19	17	10	5.3	N
Median of Extreme Lows	13	11	7	7.6	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	91	150	6.8	WSW
0.4% Occurrence	79	89	132	6.3	WSW
1.0% Occurrence	78	88	128	6.2	WSW
2.0% Occurrence	77	87	125	6.1	WSW
		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	165	87	1.07	4.1	S
0.4% Occurrence	139	84	0.90	4.4	W
1.0% Occurrence	134	82	0.88	4.3	WSW
2.0% Occurrence	130	81	0.85	4.5	WSW
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	97	1222	1200	2826

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	3.8	90	4.9 + 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 (#)
64.2	6	6	38

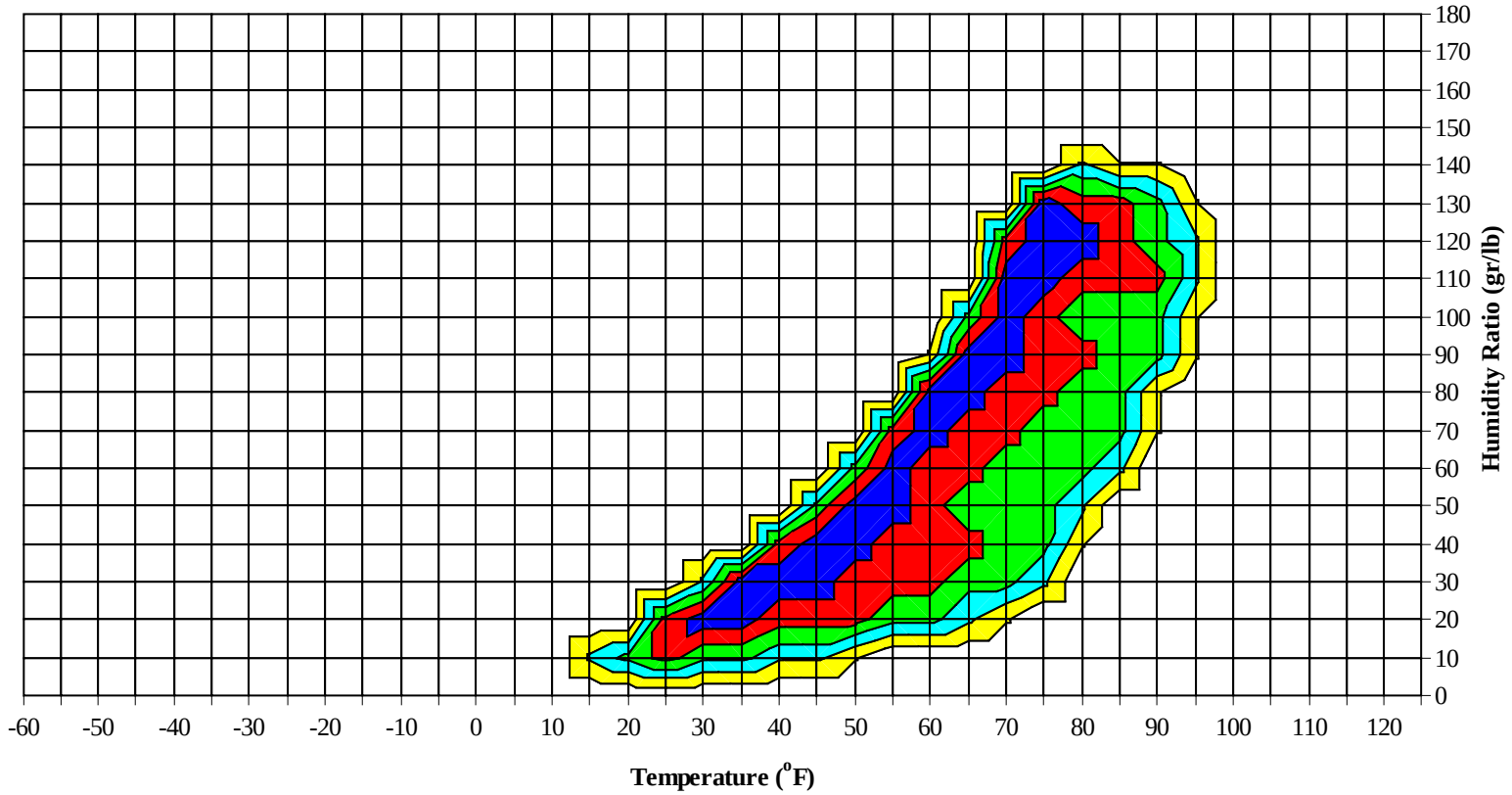
*Note: Temperatures at greater depths can be estimated by adding 1.5^oF per 100 feet additional depth.

ANNISTON/CALHOUN AL WMO No. 722287



ANNISTON/CALHOUN AL WMO No. 722287

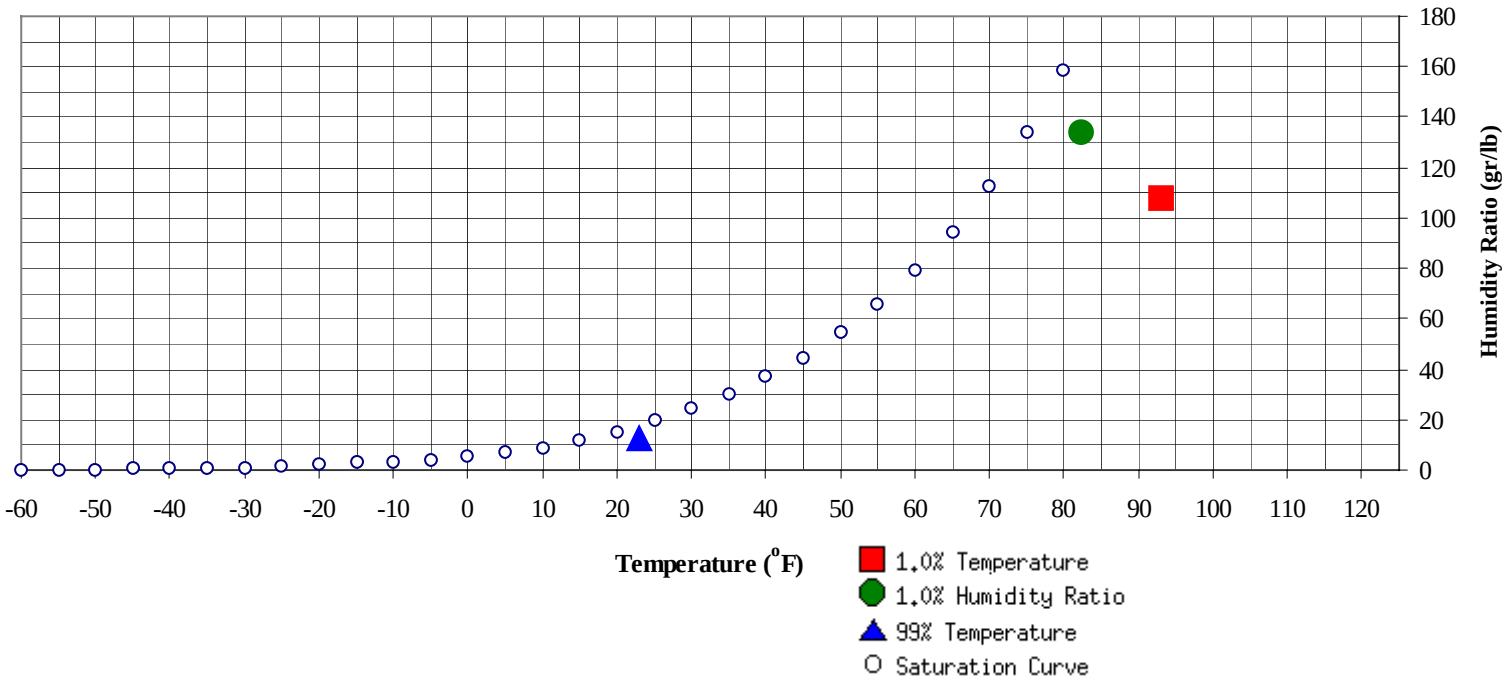
Long Term Psychrometric Summary



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

ANNISTON/CALHOUN AL WMO No. 722287

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	23	12.6	7.4

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	133.7	82.4	77	75	40.7

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	93	108.2	75.7	39.4

ANNISTON/CALHOUN AL WMO No. 722287

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												1	0	1	66.3
80 / 84							0	0	0	62.8		9	1	10	64.5
75 / 79		1		1	63.4		5	1	6	60.3	0	24	7	31	61.6
70 / 74		4	1	5	61.9	0	13	3	16	59.7	3	34	17	54	60.2
65 / 69	2	11	3	16	58.6	4	24	10	38	57.3	10	38	25	73	57.6
60 / 64	6	21	10	37	55.7	10	29	20	59	54.8	24	39	40	103	55.3
55 / 59	12	28	20	60	51.9	19	30	25	74	51.0	32	34	41	107	51.5
50 / 54	19	38	29	86	47.6	22	32	30	84	46.7	41	30	42	113	47.5
45 / 49	29	44	41	114	43.2	25	29	34	88	42.4	41	20	32	93	42.9
40 / 44	35	38	41	114	38.5	28	26	33	87	38.2	36	13	23	72	38.6
35 / 39	38	28	40	106	34.0	37	20	30	87	33.9	30	5	13	48	34.4
30 / 34	41	18	32	91	29.6	35	11	23	69	29.5	20	1	5	26	30.0
25 / 29	36	10	19	65	25.1	24	5	10	39	25.1	7	0	1	8	25.4
20 / 24	17	4	8	29	20.3	14	2	3	19	20.4	1	0	1	2	20.1
15 / 19	11	2	2	15	15.6	5	0	1	6	16.1	1	0	0	1	16.0
10 / 14	2	0	1	3	10.7	1	0	0	1	10.8	0			0	12.3
5 / 9	1	1	0	2	6.2	0			0	8.0					
0 / 4	1	0	0	1	1.5										
-5 / -1	0		0	0	-3.3										
-10 / -6	0			0	-6.0										

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.

ANNISTON/CALHOUN AL WMO No. 722287

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															
95 / 99							0		0	75.8		7	1	8	76.7
90 / 94		0		0	66.1		6	1	7	73.8	0	35	6	41	74.9
85 / 89		9	1	10	66.4		34	6	40	71.6	0	74	21	95	73.3
80 / 84	0	33	7	40	65.3	1	61	17	79	69.3	6	67	33	106	72.0
75 / 79	0	40	15	55	63.1	6	60	33	99	67.0	27	37	60	125	71.0
70 / 74	7	47	28	82	61.2	30	48	60	138	65.6	94	16	78	189	69.3
65 / 69	26	41	44	111	59.8	74	27	64	165	63.5	69	3	32	104	65.6
60 / 64	40	34	49	123	56.4	59	9	36	104	59.3	31	0	7	38	60.3
55 / 59	45	19	39	103	52.3	37	2	19	58	54.5	9		2	11	55.9
50 / 54	40	11	28	79	48.0	25	1	8	34	50.2	3		0	3	51.4
45 / 49	39	4	18	61	44.1	13	0	3	16	46.3	0			0	46.8
40 / 44	26	1	7	34	39.7	4		0	4	42.3					
35 / 39	13	0	2	15	35.6	0			0	37.5					
30 / 34	5		0	5	31.5										
25 / 29	0			0	27.9										
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															

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ANNISTON/CALHOUN AL WMO No. 722287

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	76.9		2	0	2	77.7					
95 / 99	0	17	3	20	77.0		10	1	11	76.1		3		3	74.4
90 / 94	0	60	12	72	76.4		50	7	57	75.8		17	1	18	74.0
85 / 89	1	81	25	107	75.4	0	86	21	107	75.0		49	7	56	73.1
80 / 84	12	52	43	107	74.6	6	62	39	107	73.9	1	65	18	84	71.3
75 / 79	54	26	85	165	73.1	43	29	87	159	72.9	13	51	45	109	70.0
70 / 74	142	9	72	223	70.7	141	8	80	229	70.5	74	33	83	190	68.7
65 / 69	34	1	8	43	66.5	47	1	12	60	66.1	71	13	44	128	64.7
60 / 64	5		0	5	62.0	10	0	1	11	61.1	36	6	23	65	59.5
55 / 59	0			0	58.0	1		0	1	57.0	26	3	14	43	55.3
50 / 54						0			0	52.7	12	0	4	16	50.6
45 / 49											6		1	7	46.5
40 / 44											1			1	42.3
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-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.

ANNISTON/CALHOUN AL WMO No. 722287

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	72.5		0		0	74.5					
85 / 89		6	0	6	70.4		0	0	0	67.3					
80 / 84	0	30	2	32	67.8		3	0	3	67.6					
75 / 79	1	50	9	60	64.9	0	17	1	18	63.8		2	0	2	66.6
70 / 74	10	52	27	89	63.8	3	34	10	47	62.6	2	10	3	15	64.2
65 / 69	30	48	45	123	61.2	14	40	23	77	60.3	8	20	9	37	60.7
60 / 64	40	34	52	126	57.5	25	39	32	96	56.7	11	29	16	56	56.7
55 / 59	46	18	46	110	53.5	29	37	36	102	52.1	17	36	24	77	51.6
50 / 54	39	7	33	79	49.2	30	31	37	98	47.2	20	40	32	92	47.2
45 / 49	34	1	22	57	45.3	31	22	35	88	43.1	27	39	37	103	42.8
40 / 44	29	1	11	41	40.9	35	13	32	80	39.1	36	33	42	111	38.6
35 / 39	16	0	3	19	36.6	32	4	21	57	35.0	37	21	37	95	34.1
30 / 34	4		0	4	32.3	28	1	10	39	30.8	39	10	28	77	29.8
25 / 29	0			0	28.5	12	0	2	14	26.4	30	4	14	48	25.4
20 / 24						1		0	1	21.5	14	2	4	20	20.7
15 / 19						0			0	15.7	4	1	1	6	15.5
10 / 14											2	1	1	4	10.5
5 / 9											1	0	0	1	6.3
0 / 4											0			0	2.1
-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.

ANNISTON/CALHOUN AL WMO No. 722287

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

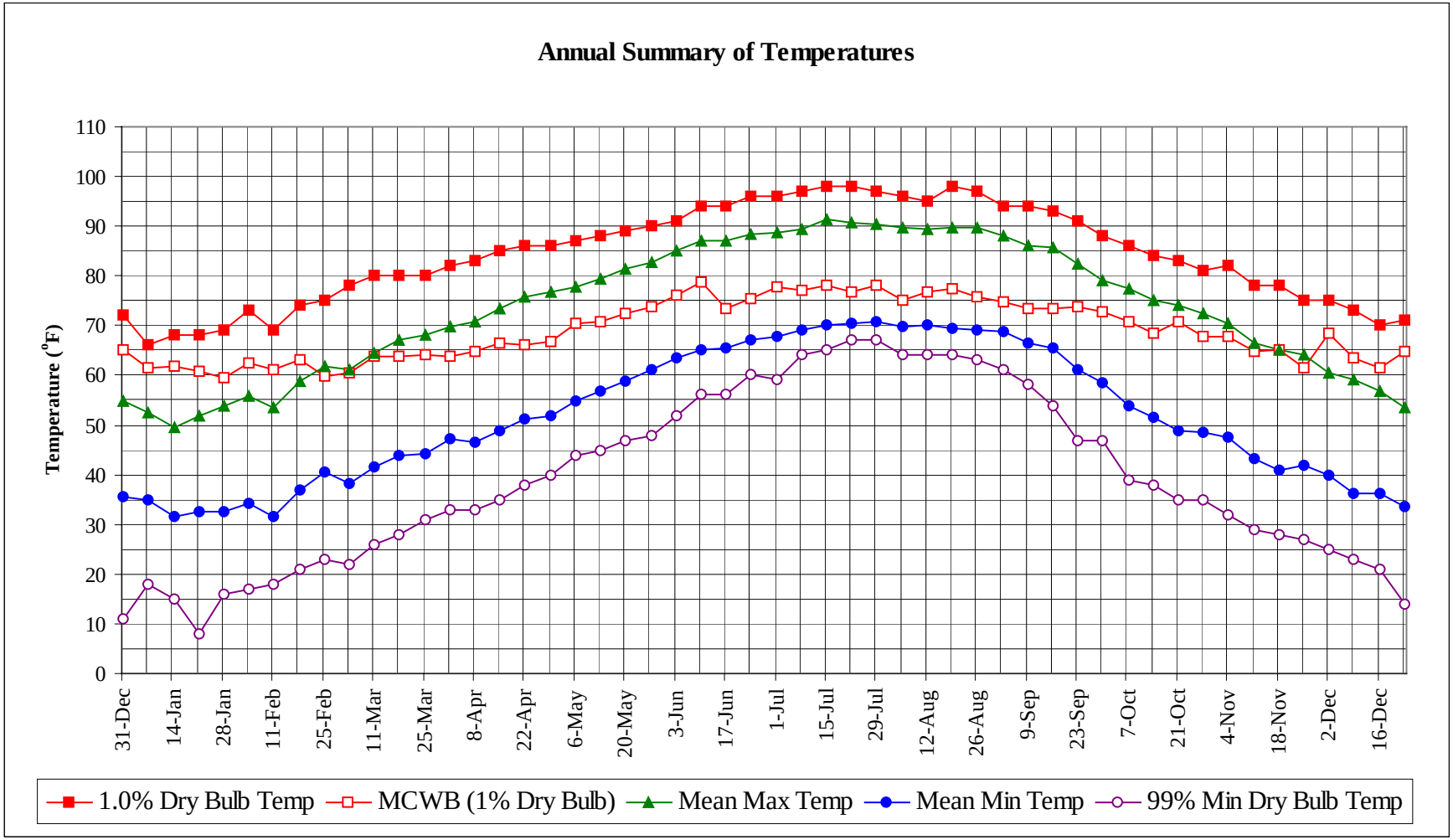
Period of Record = 1973 to 1996

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	77.3
95 / 99	0	37	6	43	76.5
90 / 94	0	167	27	194	75.6
85 / 89	2	340	81	423	73.8
80 / 84	25	382	160	567	71.5
75 / 79	144	343	343	829	69.6
70 / 74	504	308	459	1271	67.5
65 / 69	388	265	319	972	62.3
60 / 64	296	241	287	824	57.2
55 / 59	274	206	268	748	52.5
50 / 54	251	191	243	685	47.8
45 / 49	246	160	224	630	43.4
40 / 44	230	125	190	545	38.9
35 / 39	203	78	146	427	34.4
30 / 34	172	41	99	312	29.9
25 / 29	110	20	46	176	25.3
20 / 24	47	7	15	69	20.5
15 / 19	22	3	4	29	15.7
10 / 14	4	1	2	7	10.7
5 / 9	3	1	1	5	6.3
0 / 4	1	0	0	1	1.7
-5 / -1	0		0	0	-3.3
-10 / -6	0			0	-6.0

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.

ANNISTON/CALHOUN AL WMO No. 722287



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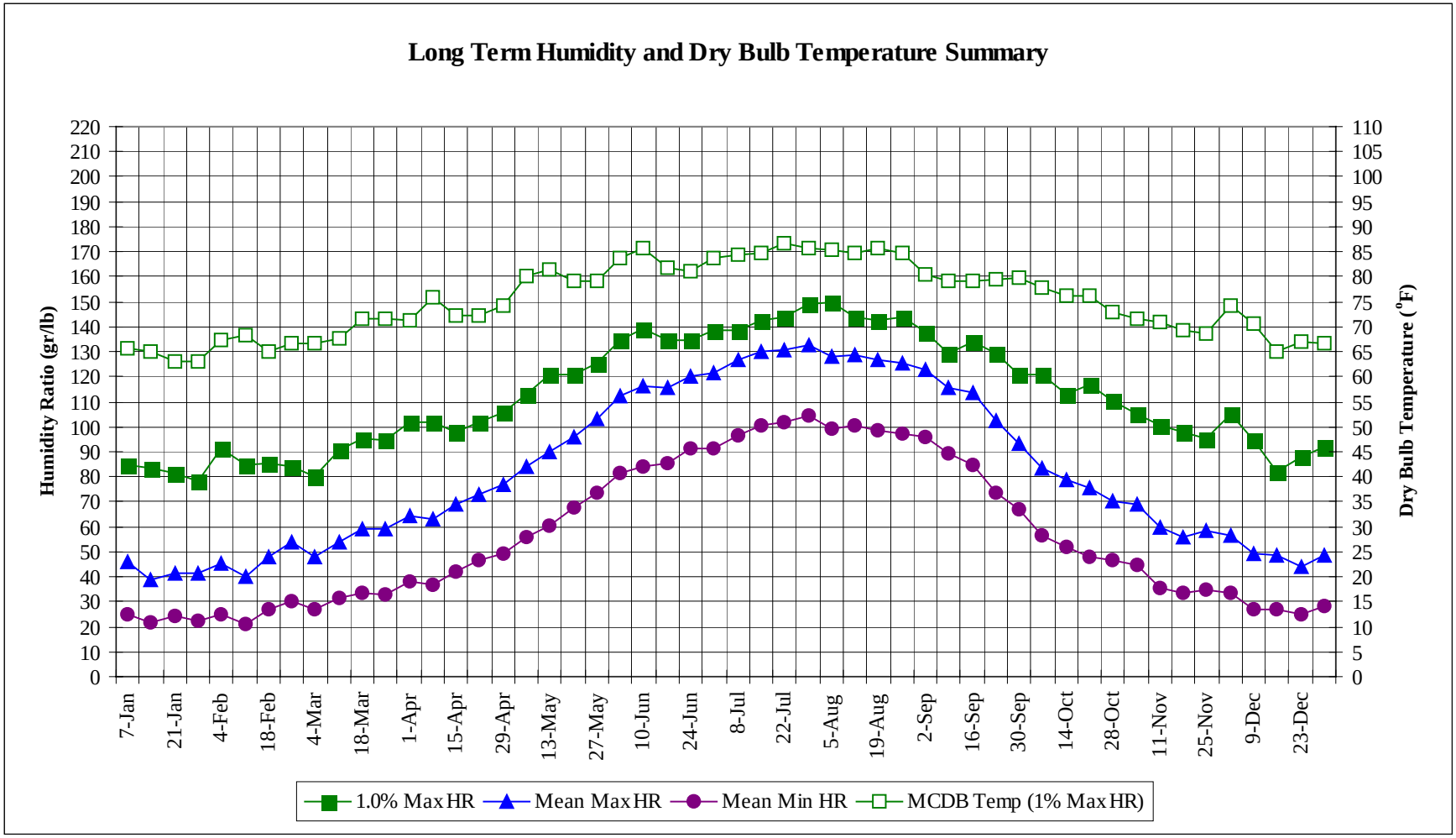
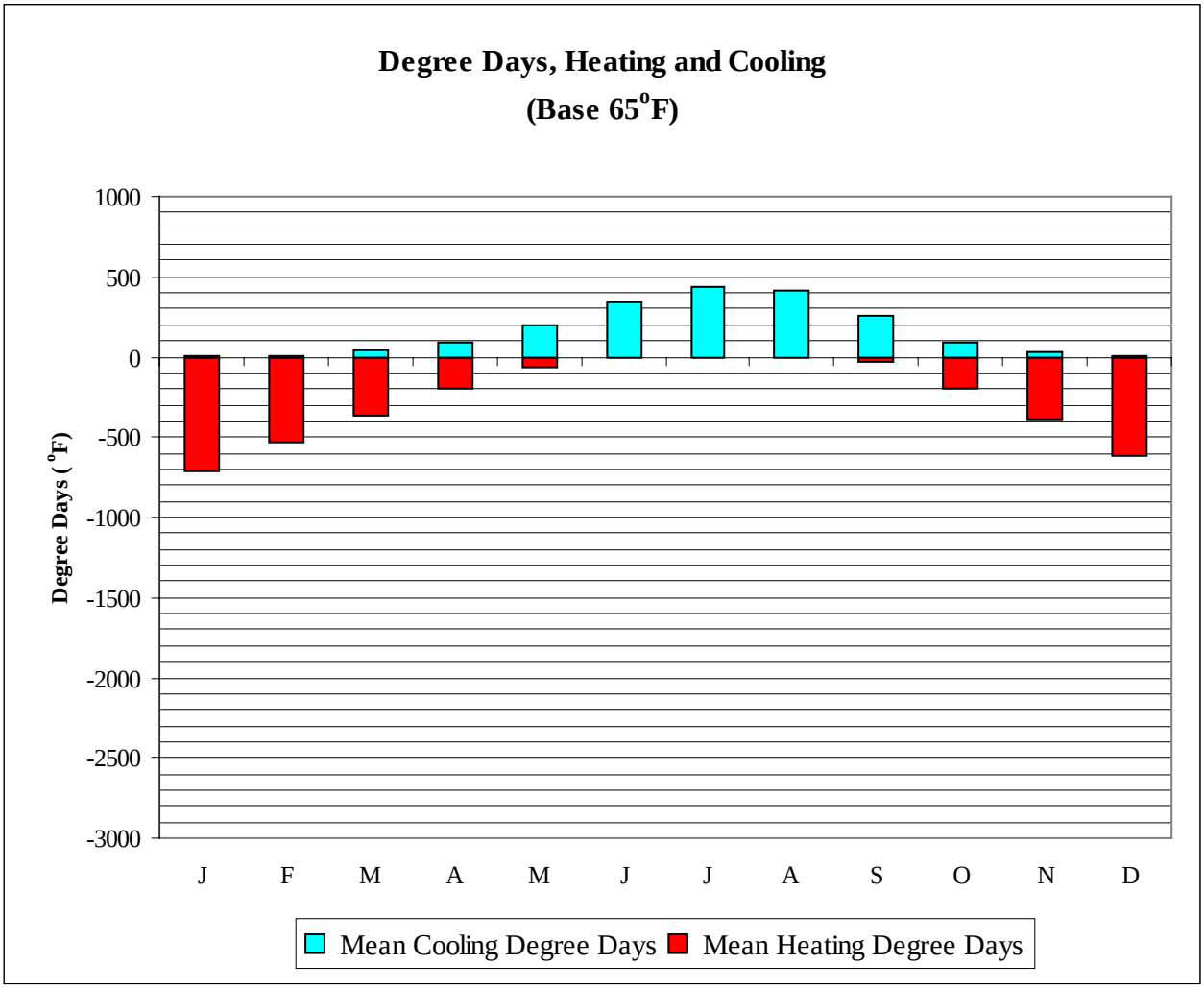


ANNISTON/CALHOUN AL WMO No. 722287

Long Term Dry Bulb Temperature and Humidity Summary

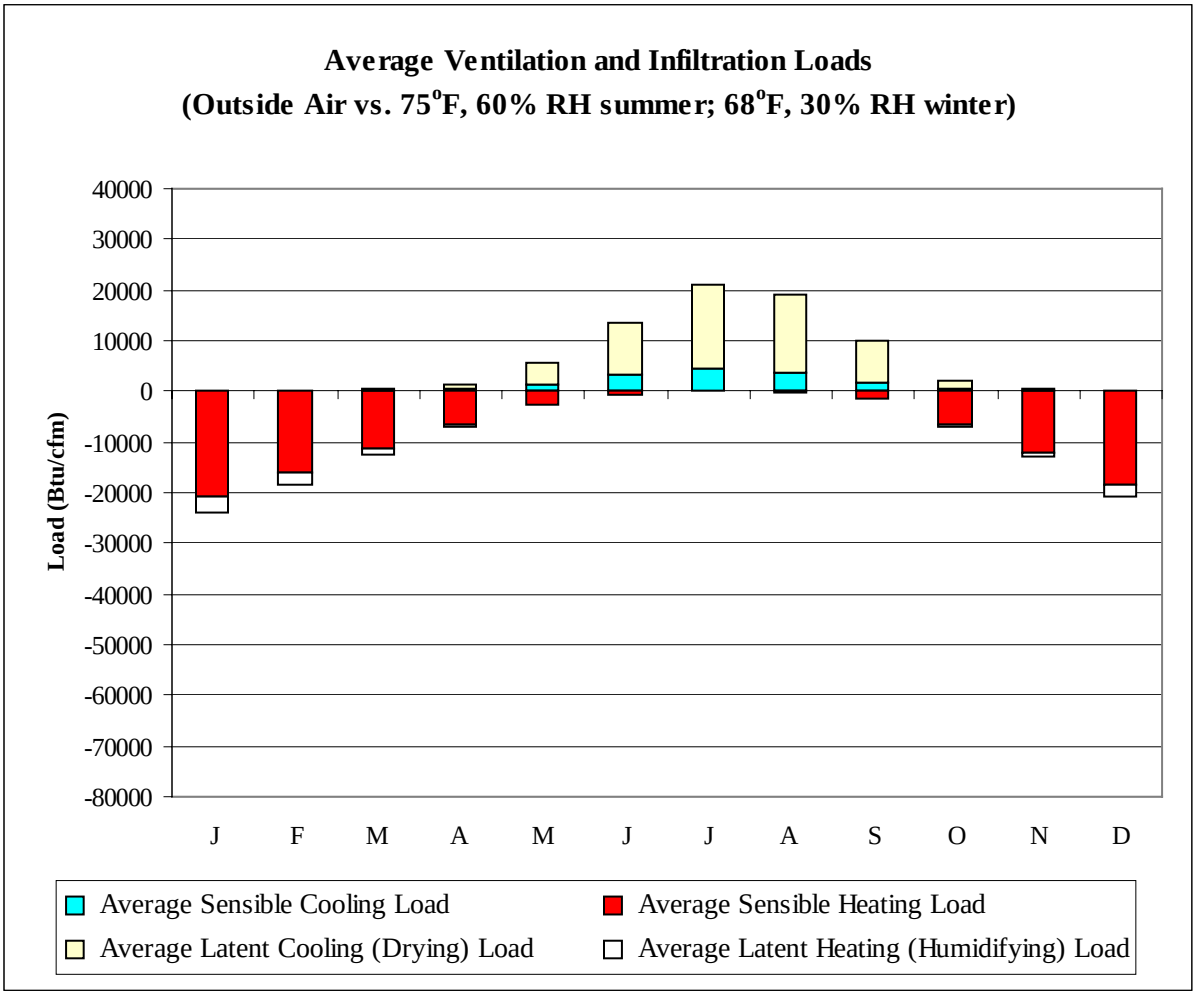
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	66.0	61.6	52.5	34.8	18.0	84.7	65.6	45.7	25.3
14-Jan	68.0	62.0	49.6	31.6	15.0	83.3	64.9	38.8	22.0
21-Jan	68.0	60.9	51.9	32.5	8.0	81.2	63.0	41.6	24.1
28-Jan	69.0	59.5	53.8	32.5	16.0	78.4	63.2	41.3	22.3
4-Feb	73.0	62.4	55.8	34.2	17.0	91.0	67.3	45.4	24.7
11-Feb	69.0	61.2	53.5	31.7	18.0	84.7	68.2	39.9	20.9
18-Feb	74.0	63.0	58.8	36.8	21.0	85.4	64.9	47.6	27.2
25-Feb	75.0	59.8	61.9	40.5	23.0	84.0	66.6	53.7	30.3
4-Mar	78.0	60.6	61.3	38.3	22.0	79.8	66.5	47.8	27.2
11-Mar	80.0	63.8	64.4	41.4	26.0	90.3	67.8	53.6	31.7
18-Mar	80.0	63.7	67.1	43.8	28.0	95.2	71.7	59.0	33.6
25-Mar	80.0	64.2	68.2	44.2	31.0	94.5	71.7	59.1	32.6
1-Apr	82.0	63.8	69.8	47.2	33.0	101.5	71.2	64.4	38.4
8-Apr	83.0	64.8	70.7	46.6	33.0	101.5	75.8	62.8	36.6
15-Apr	85.0	66.6	73.5	48.8	35.0	98.0	72.4	69.1	42.2
22-Apr	86.0	66.2	75.9	51.1	38.0	101.5	72.1	72.8	46.8
29-Apr	86.0	66.8	76.9	52.0	40.0	105.7	74.2	76.6	49.6
6-May	87.0	70.4	77.8	54.7	44.0	112.7	80.3	84.0	55.7
13-May	88.0	70.9	79.5	56.9	45.0	121.1	81.6	89.8	60.6
20-May	89.0	72.5	81.4	58.7	47.0	121.1	79.1	96.0	67.4
27-May	90.0	73.7	82.7	61.0	48.0	125.3	79.1	102.9	73.4
3-Jun	91.0	76.1	85.0	63.6	52.0	134.4	83.8	112.2	81.6
10-Jun	94.0	78.8	86.9	65.2	56.0	139.3	85.6	116.3	84.2
17-Jun	94.0	73.4	87.2	65.6	56.0	134.4	81.8	115.3	85.2
24-Jun	96.0	75.4	88.3	67.1	60.0	134.4	81.1	120.3	91.1
1-Jul	96.0	77.8	88.8	67.8	59.0	138.6	83.8	121.3	91.6
8-Jul	97.0	77.3	89.4	69.3	64.0	138.6	84.6	126.9	96.4
15-Jul	98.0	78.2	91.2	70.2	65.0	142.8	84.6	130.0	100.8
22-Jul	98.0	76.6	90.7	70.6	67.0	143.5	86.7	130.8	101.8
29-Jul	97.0	78.1	90.3	70.8	67.0	149.1	85.7	133.0	104.3
5-Aug	96.0	75.3	89.6	69.7	64.0	149.8	85.3	128.3	98.9
12-Aug	95.0	76.7	89.2	70.0	64.0	143.5	84.9	128.8	100.6
19-Aug	98.0	77.3	89.8	69.4	64.0	142.8	85.7	126.6	98.8
26-Aug	97.0	75.7	89.9	69.2	63.0	143.5	84.7	125.7	96.9
2-Sep	94.0	74.8	88.2	68.7	61.0	137.9	80.4	122.9	95.7
9-Sep	94.0	73.5	86.2	66.4	58.0	129.5	79.0	115.4	89.4
16-Sep	93.0	73.3	85.8	65.5	54.0	133.7	79.0	113.9	84.9
23-Sep	91.0	73.9	82.3	61.1	47.0	129.5	79.6	102.7	73.8
30-Sep	88.0	72.8	79.0	58.5	47.0	121.1	79.7	93.2	67.0
7-Oct	86.0	70.6	77.4	53.9	39.0	121.1	77.8	83.5	56.2
14-Oct	84.0	68.4	75.2	51.5	38.0	112.7	76.1	78.8	52.0
21-Oct	83.0	70.6	74.0	48.9	35.0	116.9	76.3	75.4	47.6
28-Oct	81.0	67.8	72.3	48.5	35.0	110.6	73.0	70.2	46.4
4-Nov	82.0	67.8	70.5	47.5	32.0	105.0	71.5	68.9	44.3
11-Nov	78.0	64.7	66.4	43.1	29.0	100.8	71.0	60.1	35.8
18-Nov	78.0	65.2	65.1	41.0	28.0	98.0	69.3	56.1	33.4
25-Nov	75.0	61.3	64.2	41.9	27.0	95.2	68.6	58.6	34.9
2-Dec	75.0	68.3	60.6	40.0	25.0	105.0	74.3	56.6	33.3
9-Dec	73.0	63.5	59.1	36.3	23.0	94.5	70.5	49.6	27.3
16-Dec	70.0	61.4	56.9	36.2	21.0	81.9	65.0	48.4	27.0
23-Dec	71.0	64.8	53.6	33.7	14.0	88.2	67.0	43.9	24.8
31-Dec	72.0	65.3	54.7	35.6	11.0	91.7	66.8	48.6	28.0

ANNISTON/CALHOUN AL WMO No. 722287



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	2	712
FEB	10	537
MAR	43	360
APR	95	193
MAY	200	63
JUN	344	9
JUL	436	1
AUG	409	1
SEP	253	35
OCT	90	200
NOV	29	385
DEC	7	615
ANN	1919	3111

ANNISTON/CALHOUN AL WMO No. 722287



	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	-20837	28	-3199
FEB	12	-15972	66	-2477
MAR	133	-11293	236	-1236
APR	510	-6513	737	-377
MAY	1367	-2522	4307	-16
JUN	3141	-488	10596	0
JUL	4298	-58	16585	0
AUG	3820	-116	15233	0
SEP	1886	-1462	8114	-1
OCT	404	-6768	1743	-133
NOV	49	-11952	465	-1076
DEC	2	-18239	176	-2469
ANN	15622	-96220	58286	-10984

Average Annual Solar Radiation – Nearest Available Site

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

City: BIRMINGHAM
State: AL
WBAN No: 13876
Lat(N): 33.57
Long(W): 86.75
Elev(ft): 630

Stn Type: Secondary
SHADING GEOMETRY IN DIMENSIONLESS UNITS
Window: 1
Overhang: 0.354
Vert Gap: 0.271

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	810	1050	1380	1730	1900	1970	1870	1780	1510	1270	900	740	1410
	Std Dev	58	89	111	121	120	146	134	109	101	112	77	55	40
	Minimum	710	880	1170	1480	1690	1680	1670	1510	1260	1020	700	620	1330
	Maximum	950	1260	1640	1940	2170	2270	2160	2000	1710	1470	1020	840	1470
	Diffuse	380	470	600	720	850	920	930	850	700	500	400	350	640
Clear Day	Global	1180	1510	1930	2310	2520	2580	2510	2300	1970	1560	1210	1060	1890
NORTH	Global	240	300	370	460	560	630	590	500	410	330	260	220	410
	Diffuse	240	300	370	450	510	540	530	490	410	330	260	220	390
Clear Day	Global	220	270	340	440	590	680	630	490	390	310	240	210	400
EAST	Global	510	640	800	960	1030	1060	1020	1000	860	760	550	460	800
	Diffuse	290	350	450	550	620	650	640	610	510	410	310	260	470
Clear Day	Global	830	1010	1200	1330	1380	1370	1340	1270	1150	970	810	750	1120
SOUTH	Global	1080	1130	1070	930	740	670	690	840	1020	1250	1140	1060	970
	Diffuse	380	430	510	540	560	560	570	580	560	490	410	360	500
Clear Day	Global	2040	1970	1670	1210	870	730	790	1040	1430	1750	1910	1960	1450
WEST	Global	530	670	830	980	1030	1040	960	950	870	770	570	490	810
	Diffuse	290	360	460	550	630	660	640	610	520	410	320	270	480
Clear Day	Global	830	1010	1200	1330	1380	1370	1340	1270	1150	970	810	750	1120

Average Annual Solar Heat and Illumination – Nearest Available Site

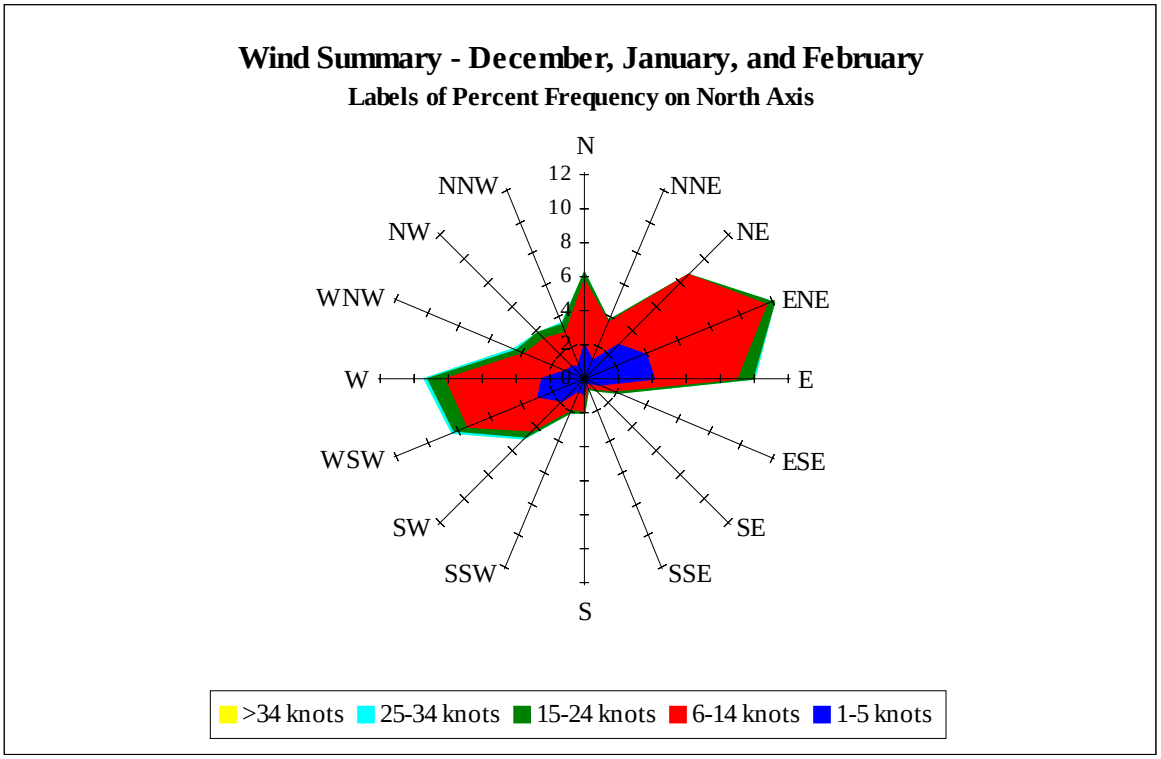
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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

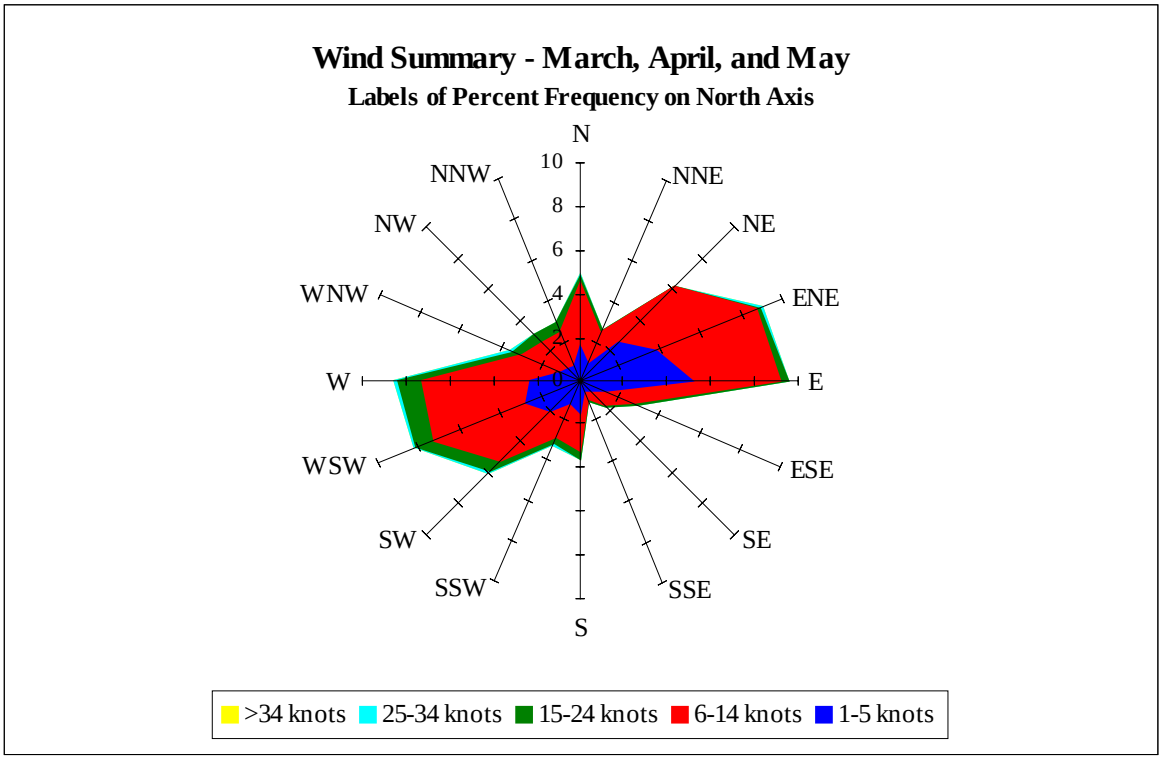
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	540	730	980	1250	1380	1440	1360	1290	1090	900	610	490	1010
NORTH	Unshaded	170	210	260	310	370	410	390	340	290	230	180	150	270
	Shaded	150	190	240	290	340	370	360	320	270	210	170	140	250
EAST	Unshaded	350	450	570	680	730	750	720	710	610	530	380	320	570
	Shaded	330	410	520	620	660	680	650	640	560	490	360	300	520
SOUTH	Unshaded	800	810	720	580	450	410	430	520	670	880	840	800	660
	Shaded	790	770	610	440	360	360	360	400	540	800	820	780	580
WEST	Unshaded	370	470	580	700	730	730	680	670	610	550	400	340	570
	Shaded	340	430	540	640	670	670	610	620	560	510	370	310	520

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

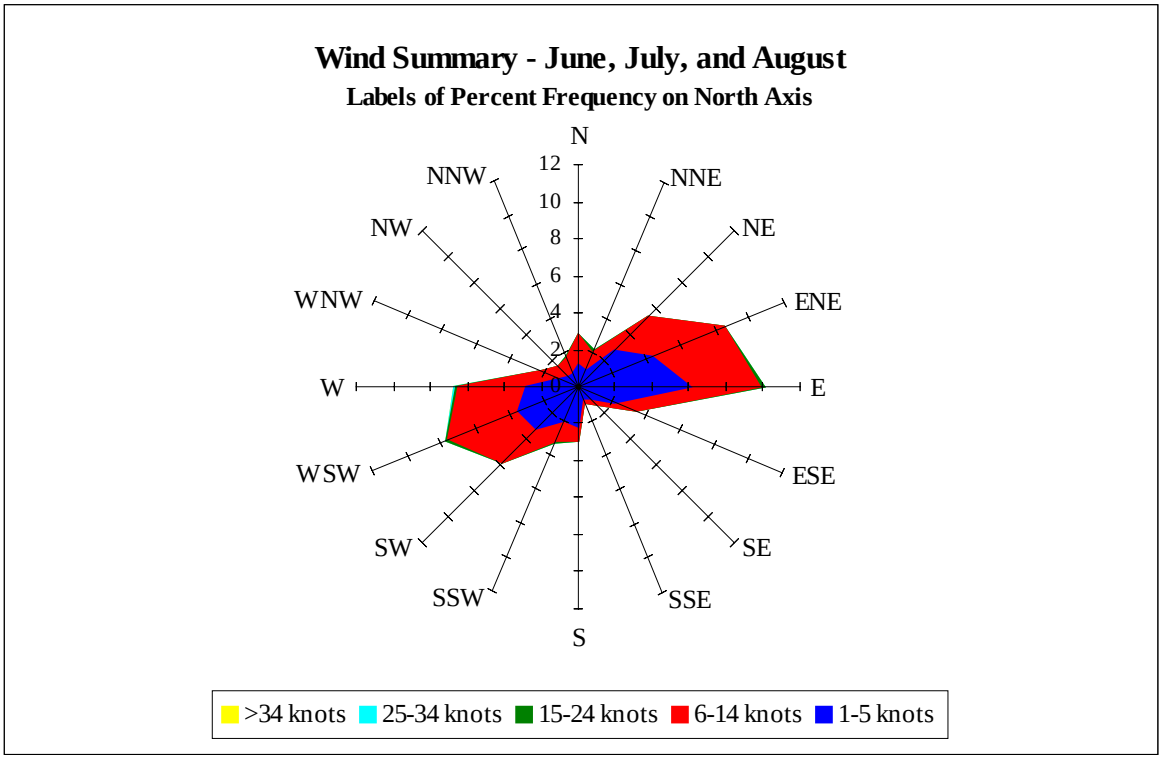
		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	50	82	89	66	24	50	88	103	92	61
	M.Cloudy	28	51	57	41	15	34	61	76	72	45
NORTH	M.Clear	11	15	15	13	7	21	18	17	18	19
	M.Cloudy	11	17	18	14	7	16	19	19	19	17
EAST	M.Clear	79	53	15	13	7	74	68	25	18	16
	M.Cloudy	29	31	18	14	7	38	44	24	19	15
SOUTH	M.Clear	43	71	76	57	21	14	27	37	31	16
	M.Cloudy	19	38	43	31	10	13	24	31	28	15
WEST	M.Clear	11	15	31	73	63	14	18	17	57	74
	M.Cloudy	11	17	24	36	23	13	19	19	45	47
M.Clear	(% hrs)	35	32	31	32	35	44	42	28	29	34
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	35	74	90	78	42	27	54	57	34	3
	M.Cloudy	21	49	64	56	30	14	30	33	19	2
NORTH	M.Clear	10	16	17	17	12	8	11	12	9	2
	M.Cloudy	9	17	19	18	12	6	12	13	8	1
EAST	M.Clear	66	66	23	17	12	55	38	12	9	2
	M.Cloudy	25	38	22	18	12	14	19	13	8	1
SOUTH	M.Clear	23	55	69	58	29	54	87	90	63	6
	M.Cloudy	13	33	45	39	19	14	31	35	21	2
WEST	M.Clear	10	16	17	59	68	8	11	30	57	10
	M.Cloudy	9	17	19	40	35	6	12	18	19	3
M.Clear	(% hrs)	44	43	33	35	42	34	35	35	35	38



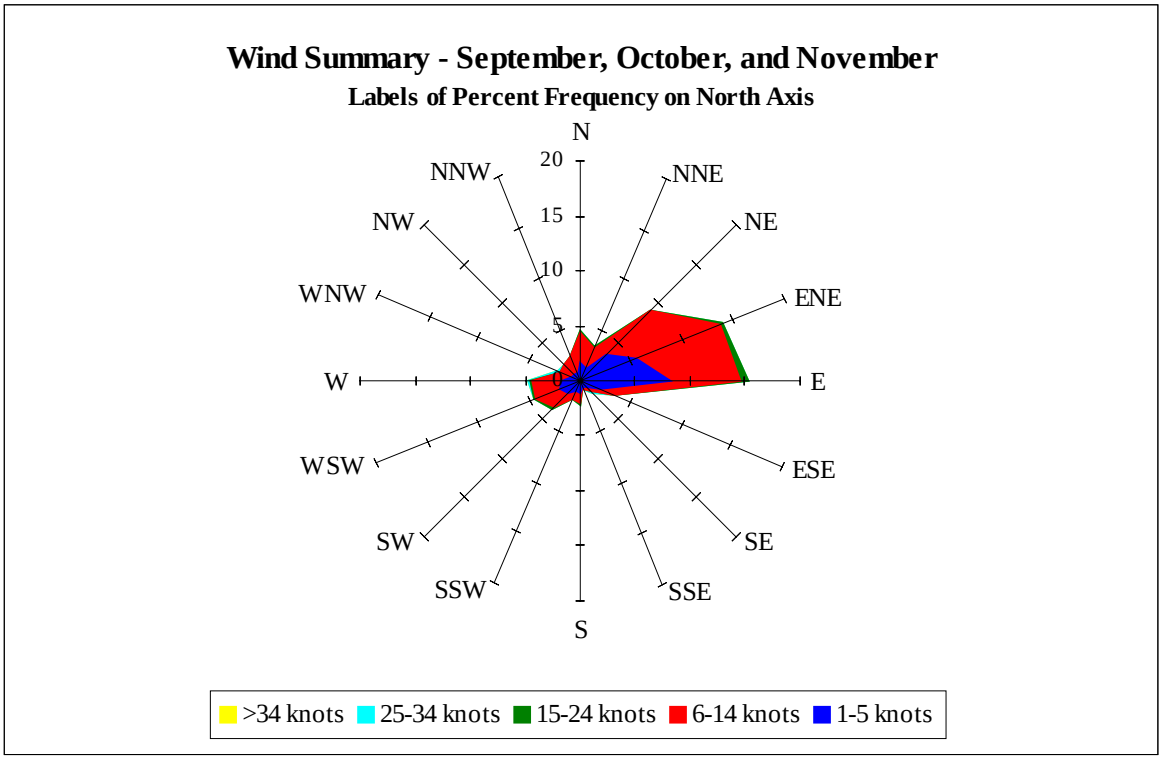
Percent Calm = 18.02



Percent Calm = 23.65



Percent Calm = 33.49



Percent Calm = 24.81