

MAXWELL AFB/MONTGOMERY AL

Latitude = 32.38 N

WMO No. 722265

Longitude = 86.37 W

Elevation = 167 feet

Period of Record = 1973 to 1996

Average Pressure = 29.85 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	99	77	105	6.6	W
0.4% Occurrence	97	77	107	5.8	W
1.0% Occurrence	95	77	108	5.8	W
2.0% Occurrence	93	76	109	5.8	W
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	35	31	20	4.8	N
99.0% Occurrence	30	27	15	5.0	N
99.6% Occurrence	26	23	12	4.8	N
Median of Extreme Lows	19	16	7	7.4	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	94	153	5.4	WSW
0.4% Occurrence	80	91	137	4.9	W
1.0% Occurrence	79	90	132	4.9	W
2.0% Occurrence	78	88	128	4.8	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	153	86	1.00	4.6	WSW
0.4% Occurrence	141	85	0.94	4.0	W
1.0% Occurrence	137	84	0.90	4.0	WSW
2.0% Occurrence	132	83	0.88	3.8	WSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		203	1993	1821	3432

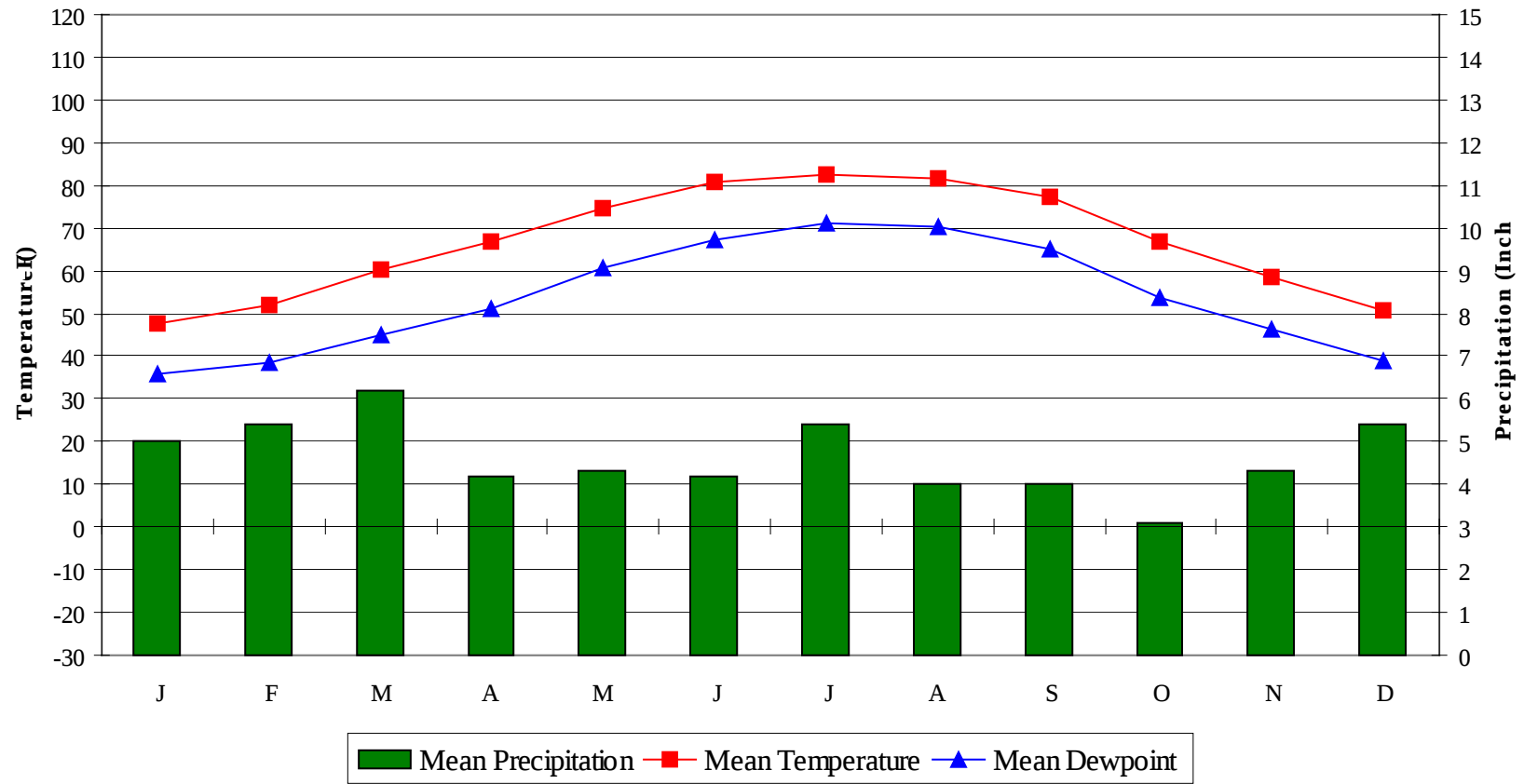
Other Site Data

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	4.8 + 2.0
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 (#)
69.5	4	0	18

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

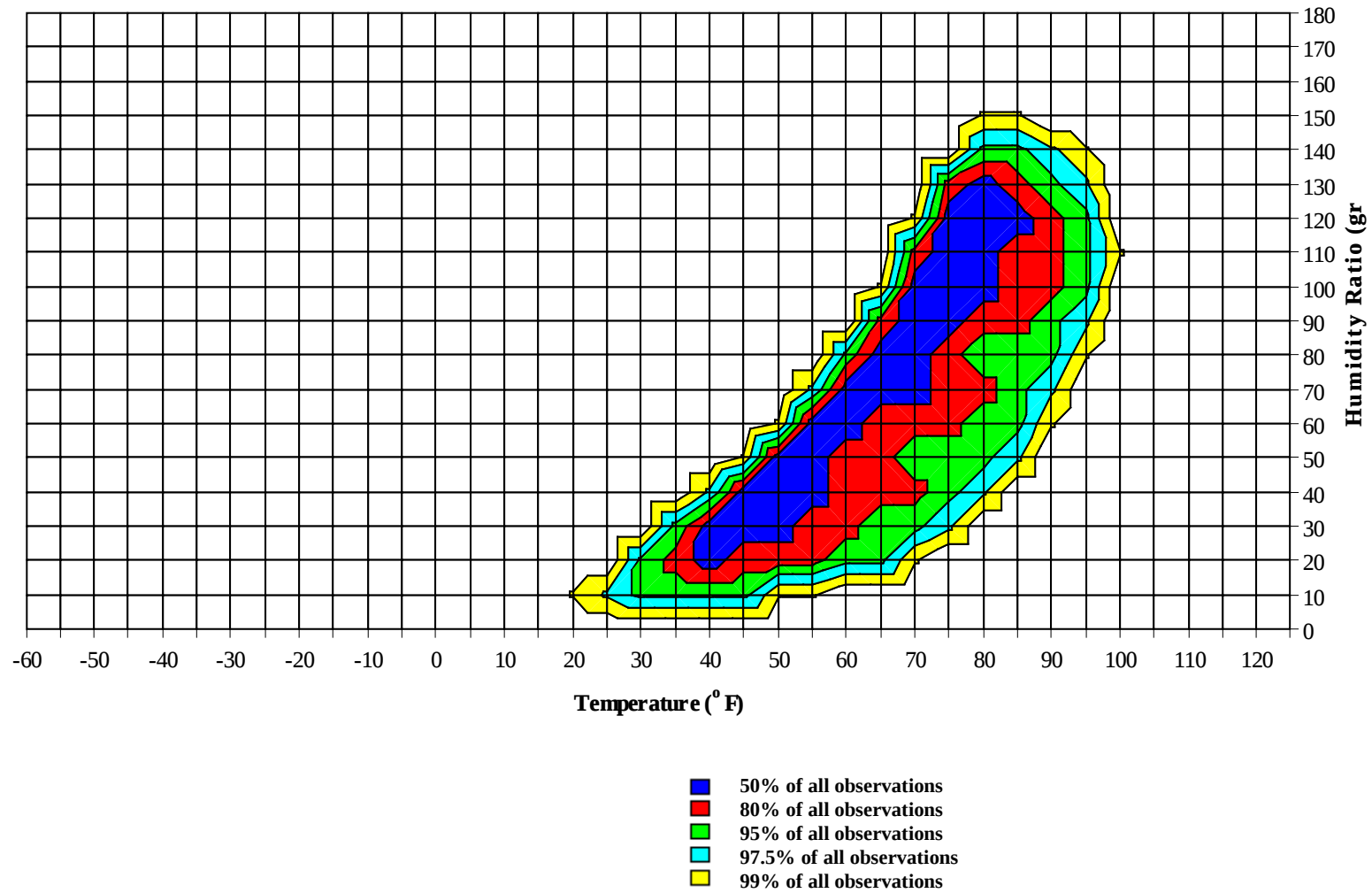
MAXWELL AFB/MONTGOMERY AL WMO No. 722265

Average Annual Climate

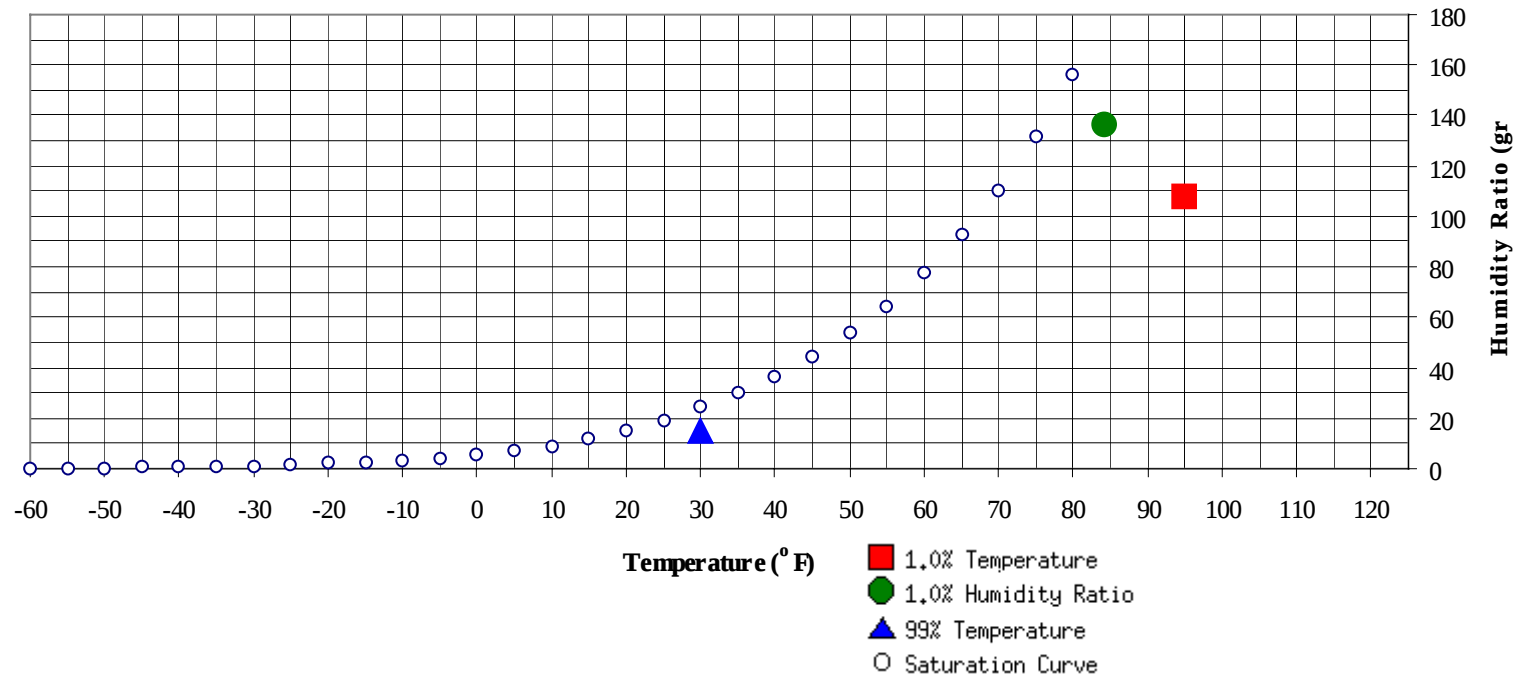


MAXWELL AFB/MONTGOMERY AL WMO No. 722265

Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
99% Dry Bulb	30	15.3	9.5		136.5	84.2	78.2	75.9	41.6

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	95	107.7	76.5	39.8

MAXWELL AFB/MONTGOMERY AL WMO No. 722265

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		
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89							0		0	67.0		2	0	2	68.5
80 / 84		0		0	67.8		2	0	2	65.9		16	3	18	66.1
75 / 79		3	0	3	65.9		8	2	10	63.4		32	14	46	62.8
70 / 74	0	9	2	11	62.3	0	20	8	29	61.0	0	39	28	73	60.7
65 / 69	3	16	8	28	59.1	7	30	21	59	58.3	16	42	44	101	58.1
60 / 64	13	28	20	60	55.9	17	32	30	80	54.6	39	43	46	128	54.8
55 / 59	19	38	29	85	51.1	26	33	34	93	50.5	46	29	43	118	50.6
50 / 54	32	45	45	122	46.9	29	32	34	95	45.6	48	23	35	106	46.3
45 / 49	32	39	46	117	41.9	36	30	38	104	41.9	42	14	20	76	42.1
40 / 44	42	33	40	115	37.2	39	21	29	90	37.3	29	6	10	45	37.6
35 / 39	44	20	32	95	32.8	33	11	18	62	32.6	16	2	4	21	33.7
30 / 34	36	11	19	66	28.6	20	4	7	32	28.4	6	1	1	8	28.6
25 / 29	19	4	6	29	24.2	12	2	1	14	23.9	1	0	0	1	23.9
20 / 24	6	1	2	8	19.2	3	0		3	19.4	0			0	20.1
15 / 19	3	1	1	5	14.6	0	0		0	14.8					
10 / 14	0	0	0	0	9.5	0			0	12.0					
5 / 9	0	0	0	0	5.3	0			0						
0 / 4	0			0	2.0	0			0	2.0					

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.

MAXWELL AFB/MONTGOMERY AL WMO No. 722265

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		
105 / 109															
100 / 104												1	0	1	77.1
95 / 99							1	0	1	75.0		15	3	18	75.8
90 / 94		1	0	1	68.2		15	2	17	72.9		56	16	72	74.7
85 / 89		15	3	18	67.7		51	15	66	71.1	3	77	39	118	73.6
80 / 84	0	41	12	54	66.1	3	68	38	108	68.9	24	54	60	138	72.4
75 / 79	1	48	28	77	63.7	24	58	61	143	67.4	83	27	76	186	71.2
70 / 74	15	48	47	110	61.8	68	35	70	173	65.7	94	9	40	143	68.5
65 / 69	42	41	55	139	59.2	79	16	41	135	62.5	30	1	7	38	63.5
60 / 64	56	27	44	127	55.5	41	3	16	61	57.6	5		0	5	58.6
55 / 59	47	12	29	88	51.3	23	1	5	28	53.3	1		0	1	54.6
50 / 54	41	4	15	60	47.6	9	0	1	10	49.2	0			0	48.0
45 / 49	23	2	6	31	43.2	3		0	3	46.2					
40 / 44	11	0	1	12	39.2										
35 / 39	3	0	0	3	34.2										
30 / 34	1			1	31.1										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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MAXWELL AFB/MONTGOMERY AL WMO No. 722265

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		
105 / 109						0			0	77.8					
100 / 104		3	0	3	78.2	3	0	3	78.4		0			0	74.0
95 / 99		27	6	33	77.4	19	3	22	77.4		6	1	7	74.1	
90 / 94	0	72	22	94	76.8	0	68	16	84	76.5	38	6	44	74.4	
85 / 89	6	77	41	124	76.1	2	85	40	127	75.5	0	67	21	88	73.6
80 / 84	38	45	70	153	75.1	27	50	75	152	74.6	6	59	47	113	72.0
75 / 79	133	20	85	238	73.2	120	18	87	224	72.9	62	40	82	183	70.7
70 / 74	68	4	23	95	70.3	88	5	26	118	69.8	94	18	49	161	67.7
65 / 69	4	0	0	4	66.0	10	1	2	13	64.8	42	8	21	71	62.3
60 / 64	0			0	62.0	1		0	1	60.7	22	3	10	35	57.7
55 / 59						0			0	57.0	10	1	4	15	52.9
50 / 54											4		0	4	48.6
45 / 49											0			0	41.7
40 / 44															
35 / 39															
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.

MAXWELL AFB/MONTGOMERY AL WMO No. 722265

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		
105 / 109															
100 / 104															
95 / 99															
90 / 94		3	0	3	73.1										
85 / 89		16	2	18	70.5		0		0	72.8					
80 / 84	0	43	9	52	68.1		9	0	9	67.1		2	0	2	69.2
75 / 79	5	54	27	86	65.7	0	30	5	35	65.6	0	10	2	12	66.5
70 / 74	31	57	51	139	63.8	7	38	21	67	63.4	4	16	8	28	64.0
65 / 69	42	39	49	131	60.0	25	41	39	105	60.4	10	23	16	49	59.7
60 / 64	47	22	47	117	56.5	35	41	38	114	55.7	16	33	30	79	55.9
55 / 59	44	9	35	88	52.4	32	37	40	109	50.7	27	39	30	97	50.8
50 / 54	41	3	21	64	48.5	37	23	38	99	46.5	23	44	38	105	45.9
45 / 49	25	1	6	32	44.2	37	13	31	82	42.4	40	36	44	121	41.9
40 / 44	10	1	1	12	39.9	33	6	20	60	38.4	37	24	37	98	37.5
35 / 39	2		0	2	35.3	22	1	7	30	34.3	40	13	27	79	33.2
30 / 34	0			0	33.0	10	0	1	11	30.2	30	5	11	46	29.2
25 / 29						1		0	1	25.7	16	2	4	21	24.5
20 / 24						0			0	22.0	3	1	0	4	19.2
15 / 19											1	0	1	2	14.3
10 / 14											1	0	0	1	9.5
5 / 9											0			0	7.3
0 / 4															

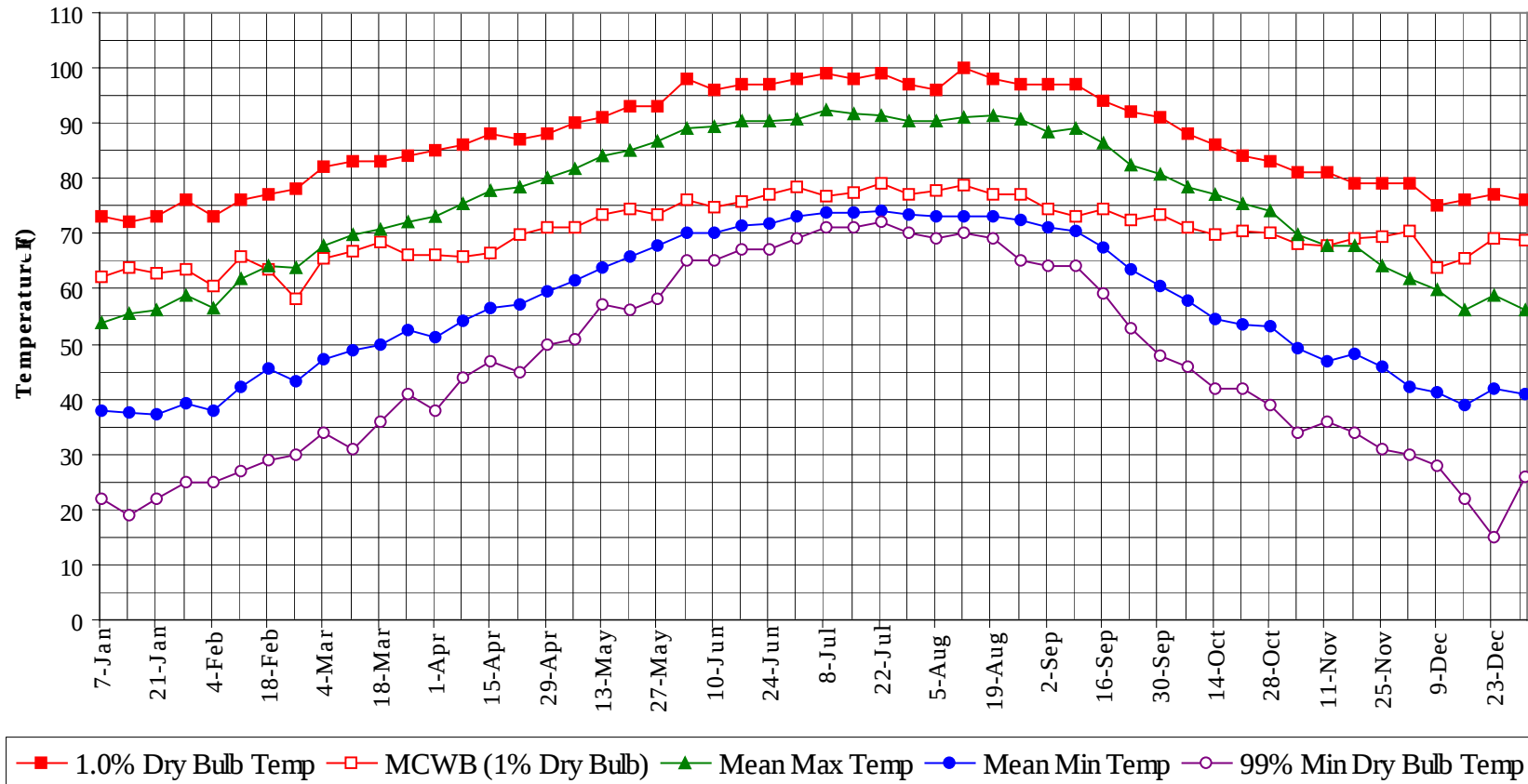
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

MAXWELL AFB/MONTGOMERY AL WMO No. 722265
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1973 to 1996

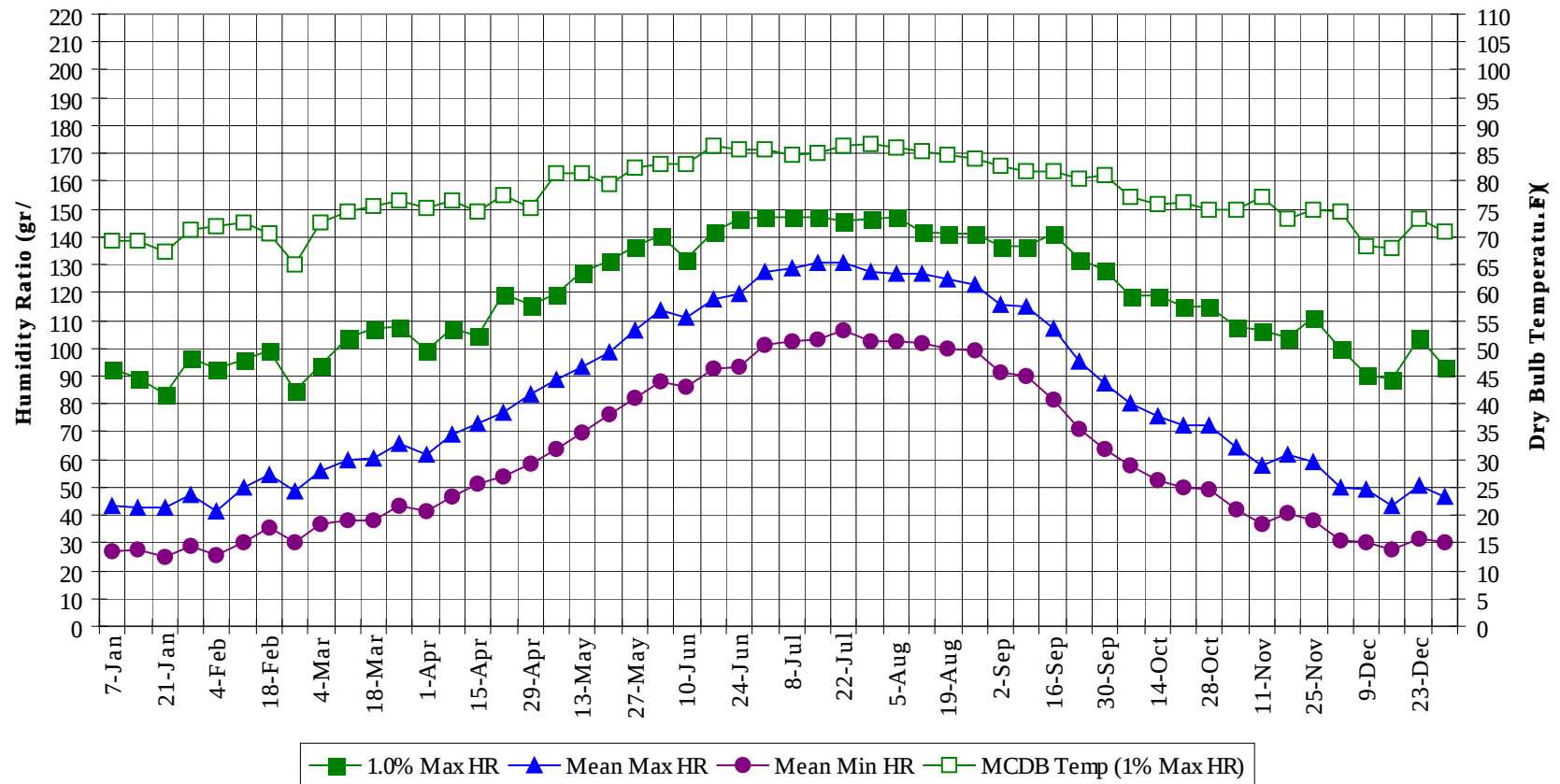
Temperature Range (°F)	Annual Totals				
	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		0		0	77.8
100 / 104		7	0	7	77.9
95 / 99		67	12	79	76.7
90 / 94	0	254	61	315	75.6
85 / 89	12	394	158	564	74.0
80 / 84	106	392	311	809	71.7
75 / 79	463	349	464	1276	69.7
70 / 74	514	300	373	1187	65.6
65 / 69	322	258	306	886	60.3
60 / 64	290	230	286	806	55.8
55 / 59	265	198	251	714	51.1
50 / 54	252	171	228	651	46.6
45 / 49	220	133	191	544	42.2
40 / 44	183	89	139	411	37.6
35 / 39	143	46	86	274	33.1
30 / 34	93	22	40	155	28.8
25 / 29	44	7	12	63	24.2
20 / 24	11	2	2	15	19.3
15 / 19	3	1	1	4	14.5
10 / 14	1	0	1	2	9.7
5 / 9	0	0	0	0	5.9
0 / 4	0			0	2.0

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.

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

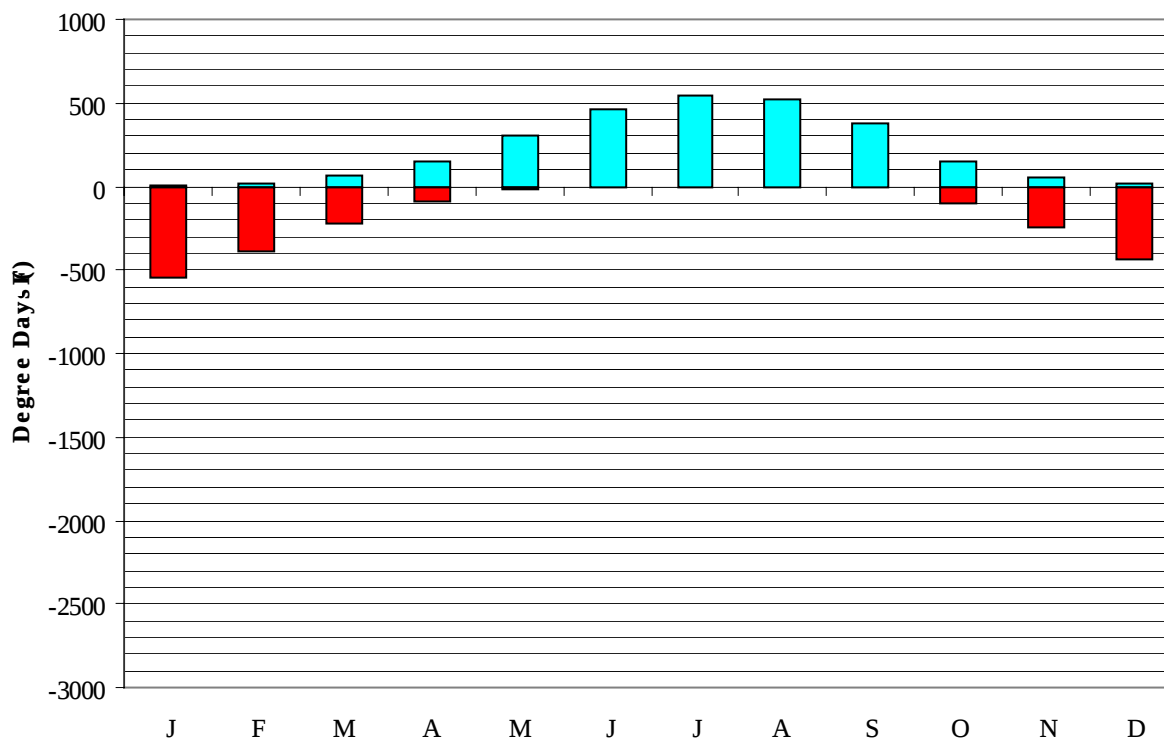


MAXWELL AFB/MONTGOMERY AL WMO No. 722265

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	73.0	62.2	53.8	37.9	22.0	92.4	69.4	43.0	26.8
14-Jan	72.0	63.7	55.4	37.5	19.0	89.6	69.2	42.7	27.4
21-Jan	73.0	62.9	56.3	37.1	22.0	83.3	67.2	42.4	25.1
28-Jan	76.0	63.4	58.7	39.2	25.0	96.6	71.2	47.6	29.1
4-Feb	73.0	60.5	56.5	37.8	25.0	92.4	72.0	41.5	25.3
11-Feb	76.0	65.9	61.8	42.0	27.0	95.9	72.5	49.8	30.2
18-Feb	77.0	63.4	64.2	45.5	29.0	99.4	70.8	54.4	35.2
25-Feb	78.0	58.3	63.9	43.1	30.0	84.7	64.9	48.4	30.1
4-Mar	82.0	65.4	67.6	47.3	34.0	93.8	72.6	56.1	36.6
11-Mar	83.0	66.8	69.7	48.7	31.0	103.6	74.4	59.5	38.4
18-Mar	83.0	68.5	70.9	49.7	36.0	107.1	75.6	60.7	38.0
25-Mar	84.0	66.2	72.1	52.4	41.0	107.8	76.4	65.7	43.4
1-Apr	85.0	66.1	73.2	51.2	38.0	99.4	75.3	61.9	41.1
8-Apr	86.0	65.9	75.3	54.3	44.0	107.1	76.4	69.1	46.6
15-Apr	88.0	66.5	77.8	56.5	47.0	104.3	74.7	73.0	51.2
22-Apr	87.0	69.9	78.5	57.1	45.0	119.7	77.6	76.8	53.6
29-Apr	88.0	71.2	80.2	59.5	50.0	115.5	75.3	83.3	58.4
6-May	90.0	71.3	81.6	61.6	51.0	119.7	81.4	88.5	63.8
13-May	91.0	73.5	84.0	63.9	57.0	127.4	81.6	93.0	69.7
20-May	93.0	74.5	85.0	65.7	56.0	131.6	79.4	98.6	76.0
27-May	93.0	73.4	86.8	67.7	58.0	136.5	82.5	106.5	81.9
3-Jun	98.0	76.1	89.2	70.0	65.0	140.7	83.2	113.7	87.8
10-Jun	96.0	74.9	89.3	70.1	65.0	132.3	83.2	110.9	85.9
17-Jun	97.0	75.8	90.2	71.4	67.0	142.1	86.3	117.8	92.3
24-Jun	97.0	77.2	90.5	71.8	67.0	146.3	85.8	119.8	93.4
1-Jul	98.0	78.4	90.8	73.1	69.0	147.0	85.8	127.1	100.9
8-Jul	99.0	76.8	92.4	73.7	71.0	147.0	84.7	128.4	102.3
15-Jul	98.0	77.4	91.9	73.9	71.0	147.0	85.0	130.8	103.4
22-Jul	99.0	79.0	91.6	74.3	72.0	145.6	86.4	130.7	106.2
29-Jul	97.0	77.0	90.4	73.4	70.0	146.3	86.7	127.4	102.1
5-Aug	96.0	77.9	90.5	73.2	69.0	147.0	86.2	126.9	102.7
12-Aug	100.0	78.9	90.9	73.1	70.0	142.1	85.3	127.0	102.0
19-Aug	98.0	77.0	91.5	73.0	69.0	141.4	84.8	124.6	99.7
26-Aug	97.0	77.0	90.6	72.6	65.0	141.4	84.0	123.0	99.2
2-Sep	97.0	74.6	88.5	71.2	64.0	136.5	82.8	115.3	91.4
9-Sep	97.0	73.1	89.2	70.6	64.0	136.5	81.8	115.0	90.2
16-Sep	94.0	74.3	86.3	67.3	59.0	141.4	81.7	106.9	81.7
23-Sep	92.0	72.6	82.4	63.6	53.0	132.3	80.5	95.3	71.2
30-Sep	91.0	73.5	80.8	60.5	48.0	128.1	81.1	87.5	63.4
7-Oct	88.0	71.1	78.3	57.8	46.0	119.0	77.0	80.0	57.5
14-Oct	86.0	69.9	77.1	54.7	42.0	119.0	75.9	75.7	52.2
21-Oct	84.0	70.3	75.4	53.5	42.0	114.8	76.3	72.4	50.0
28-Oct	83.0	70.1	74.0	53.3	39.0	114.8	74.8	72.3	49.5
4-Nov	81.0	68.1	69.7	49.3	34.0	107.8	74.8	64.2	42.1
11-Nov	81.0	67.8	67.8	46.7	36.0	106.4	77.2	58.1	36.9
18-Nov	79.0	69.3	67.8	48.2	34.0	103.6	73.1	62.0	40.5
25-Nov	79.0	69.6	64.0	45.8	31.0	111.3	74.8	58.8	38.2
2-Dec	79.0	70.6	61.9	42.1	30.0	100.1	74.4	49.9	31.1
9-Dec	75.0	63.7	60.0	41.4	28.0	90.3	68.3	49.5	30.4
16-Dec	76.0	65.4	56.2	39.0	22.0	88.9	68.1	43.1	27.9
23-Dec	77.0	69.1	59.0	41.8	15.0	103.6	73.3	50.4	31.7
31-Dec	76.0	68.7	56.2	40.7	26.0	93.1	70.9	46.7	30.2

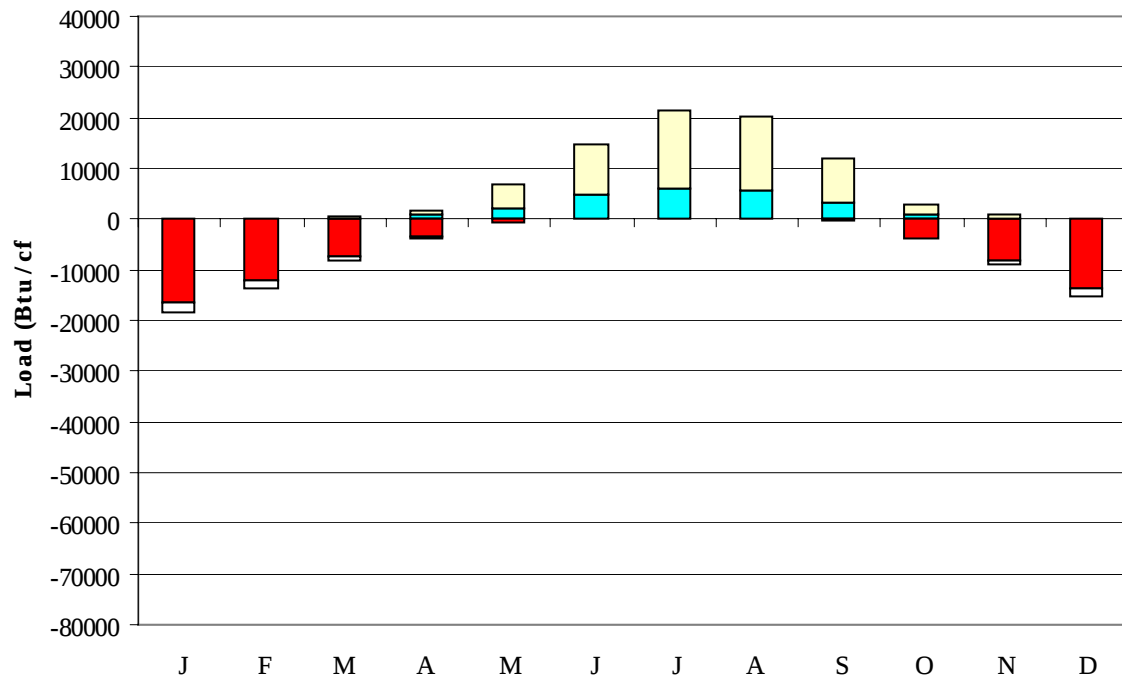
Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days
 ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	7	543
FEB	18	385
MAR	70	223
APR	144	95
MAY	302	16
JUN	465	1
JUL	541	0
AUG	519	0
SEP	378	8
OCT	155	98
NOV	52	249
DEC	17	439
ANN	2669	2057

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



	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	5	-16350	103	-2191
FEB	31	-11915	202	-1604
MAR	247	-7504	461	-766
APR	767	-3589	976	-189
MAY	2270	-804	4452	-4
JUN	4896	-51	10037	0
JUL	6193	-1	15450	0
AUG	5724	-11	14710	0
SEP	3466	-430	8531	-6
OCT	826	-3639	2191	-81
NOV	126	-8202	793	-674
DEC	29	-13503	262	-1572
ANN	24580	-65999	58168	-7087

Average Annual Solar Radiation – Nearest Available Site

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

City: MONTGOMERY
 State: AL
 WBAN No: 13895
 Lat(N): 32.3
 Long(W): 86.4
 Elev(ft): 203

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.969
 Vert Gap: 0.659

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	840	1100	1430	1790	1970	2040	1920	1810	1560	1320	960	790	1460
	Std Dev	78	120	129	133	116	141	130	124	115	121	87	61	47
	Minimum	690	820	1170	1520	1750	1630	1660	1600	1310	1120	770	670	1340
	Maximum	990	1310	1670	2040	2290	2250	2130	2090	1800	1540	1110	900	1540
	Diffuse	390	470	620	730	880	970	980	900	740	510	410	350	670
Clear Day	Global	1230	1560	1960	2320	2510	2560	2490	2300	1990	1600	1260	1110	1910
NORTH	Global	250	300	380	470	580	640	600	520	430	340	270	230	420
	Diffuse	250	300	380	450	520	560	550	500	430	340	270	230	400
Clear Day	Global	220	280	350	440	590	680	630	490	400	320	250	210	410
EAST	Global	510	660	810	980	1050	1070	1020	990	880	780	580	490	820
	Diffuse	290	360	460	560	630	670	660	630	530	420	320	270	490
Clear Day	Global	860	1030	1210	1330	1350	1340	1310	1250	1150	980	830	770	1120
SOUTH	Global	1100	1160	1080	930	740	670	690	830	1020	1260	1190	1120	980
	Diffuse	390	440	520	550	570	570	580	590	570	500	430	370	510
Clear Day	Global	2050	1960	1630	1170	820	690	750	1000	1390	1730	1920	1980	1420
WEST	Global	550	700	850	1010	1050	1050	970	950	870	790	600	520	830
	Diffuse	300	370	480	570	640	680	660	620	540	420	330	280	490
Clear Day	Global	860	1030	1210	1330	1350	1340	1310	1250	1150	980	830	770	1120

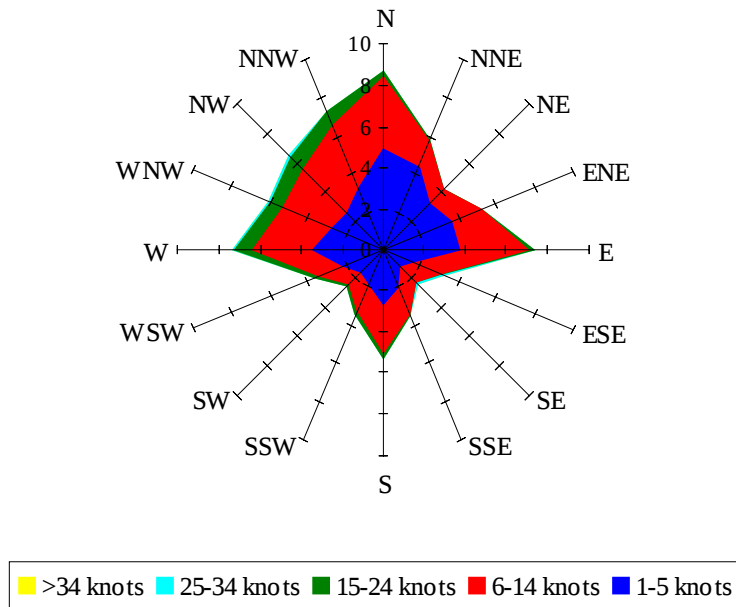
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	570	770	1020	1300	1430	1490	1390	1310	1120	940	660	530	1050
NORTH	Unshaded	170	210	270	320	380	420	400	350	300	230	180	160	280
	Shaded	140	180	230	280	320	350	330	300	260	210	160	130	240
EAST	Unshaded	360	460	570	690	740	760	720	700	620	550	410	340	580
	Shaded	300	380	460	550	590	590	570	560	500	460	340	280	470
SOUTH	Unshaded	810	830	720	570	450	420	430	510	660	880	880	840	670
	Shaded	760	660	390	320	340	340	340	350	340	610	790	800	500
WEST	Unshaded	380	490	600	720	750	740	690	670	620	560	420	360	580
	Shaded	330	410	500	580	600	590	540	540	500	470	360	310	480

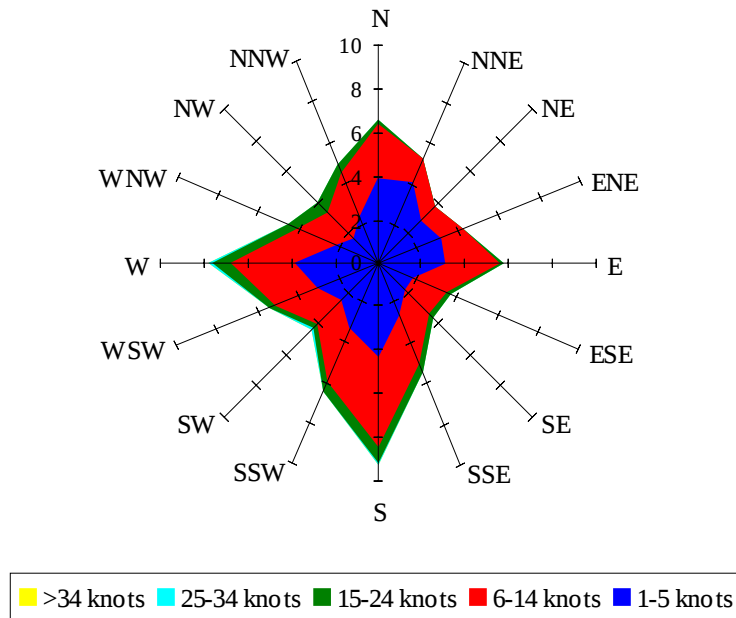
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	52	83	91	69	24	50	89	105	94	60
	M.Cloudy	29	52	57	42	15	35	66	81	73	42
NORTH	M.Clear	12	15	16	14	7	22	18	18	19	20
	M.Cloudy	11	17	18	15	7	17	20	20	20	17
EAST	M.Clear	80	52	16	14	7	73	69	25	19	16
	M.Cloudy	29	31	18	15	7	37	48	25	20	15
SOUTH	M.Clear	43	69	75	57	21	14	26	35	30	16
	M.Cloudy	19	38	42	30	10	13	24	32	27	15
WEST	M.Clear	12	15	32	75	63	14	18	18	59	73
	M.Cloudy	11	17	25	37	22	13	20	20	46	43
M.Clear	(% hrs)	34	36	37	34	38	45	44	35	33	41
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	36	76	92	79	42	29	57	59	35	3
	M.Cloudy	21	50	68	59	30	15	33	34	21	2
NORTH	M.Clear	11	17	18	17	12	8	12	12	9	2
	M.Cloudy	9	18	20	19	12	7	12	13	9	1
EAST	M.Clear	66	67	23	17	12	58	38	12	9	2
	M.Cloudy	23	38	23	19	12	15	20	13	9	1
SOUTH	M.Clear	23	55	68	57	28	57	88	91	64	7
	M.Cloudy	12	32	47	40	18	15	34	36	23	2
WEST	M.Clear	11	17	18	60	67	8	12	31	58	11
	M.Cloudy	9	18	20	42	34	7	12	18	22	3
M.Clear	(% hrs)	47	45	35	35	43	35	36	36	38	41

Wind Summary - December, January, and February **Labels of Percent Frequency on North Axis**



Percent Calm = 18.25

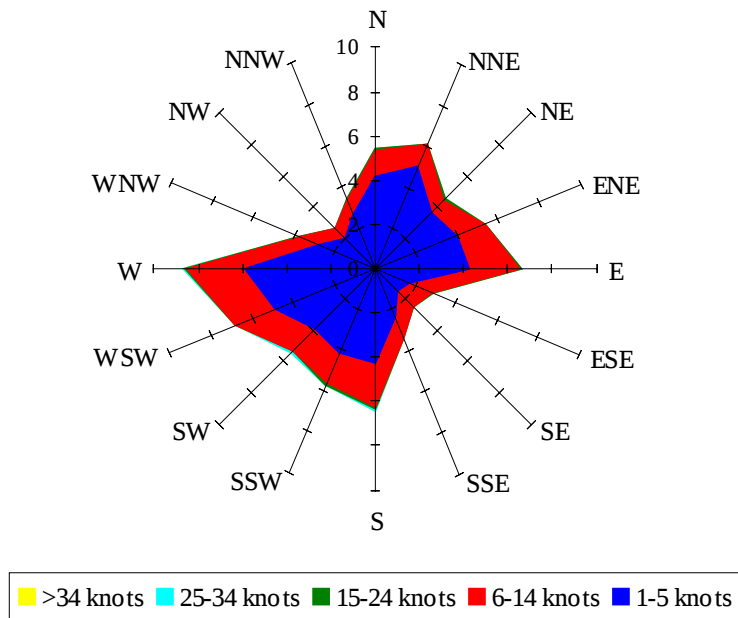
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 16.14

Wind Summary - June, July, and August

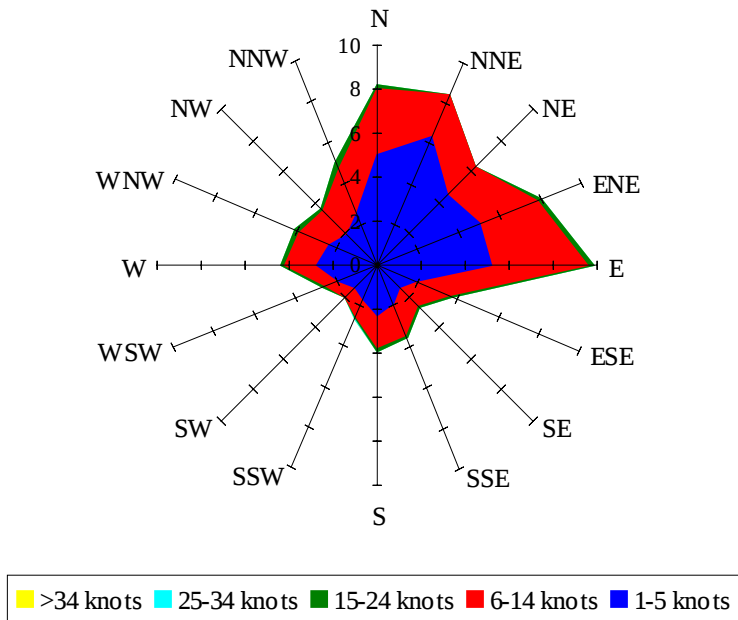
Labels of Percent Frequency on North Axis



Percent Calm = 20.99

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 21.27