

EAKER AFB	AR	
Latitude = 35.97 N		WMO No. 723408
Longitude = 89.95 W		Elevation = 256 feet
Period of Record = 1963 to 1992		Average Pressure = 29.74 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	79	115	6.7	S
0.4% Occurrence	96	78	114	7.2	SSW
1.0% Occurrence	94	77	113	7.6	SSW
2.0% Occurrence	92	76	113	7.5	S
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	23	21	11	8.6	N
99.0% Occurrence	17	15	9	8.1	N
99.6% Occurrence	12	10	6	9.8	N
Median of Extreme Lows	7	6	5	7.8	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	82	92	150	6.2	S
0.4% Occurrence	81	92	144	6.5	SSW
1.0% Occurrence	79	90	133	6.6	SSW
2.0% Occurrence	78	88	128	6.7	S
	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	90	1.00	5.1	S
0.4% Occurrence	146	88	0.97	5.5	SSW
1.0% Occurrence	137	85	0.90	5.3	S
2.0% Occurrence	132	84	0.88	5.2	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		138	1343	1184	2530

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	3.5	90	3.5 + 1.4
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 (#)
62.3	18	10	35

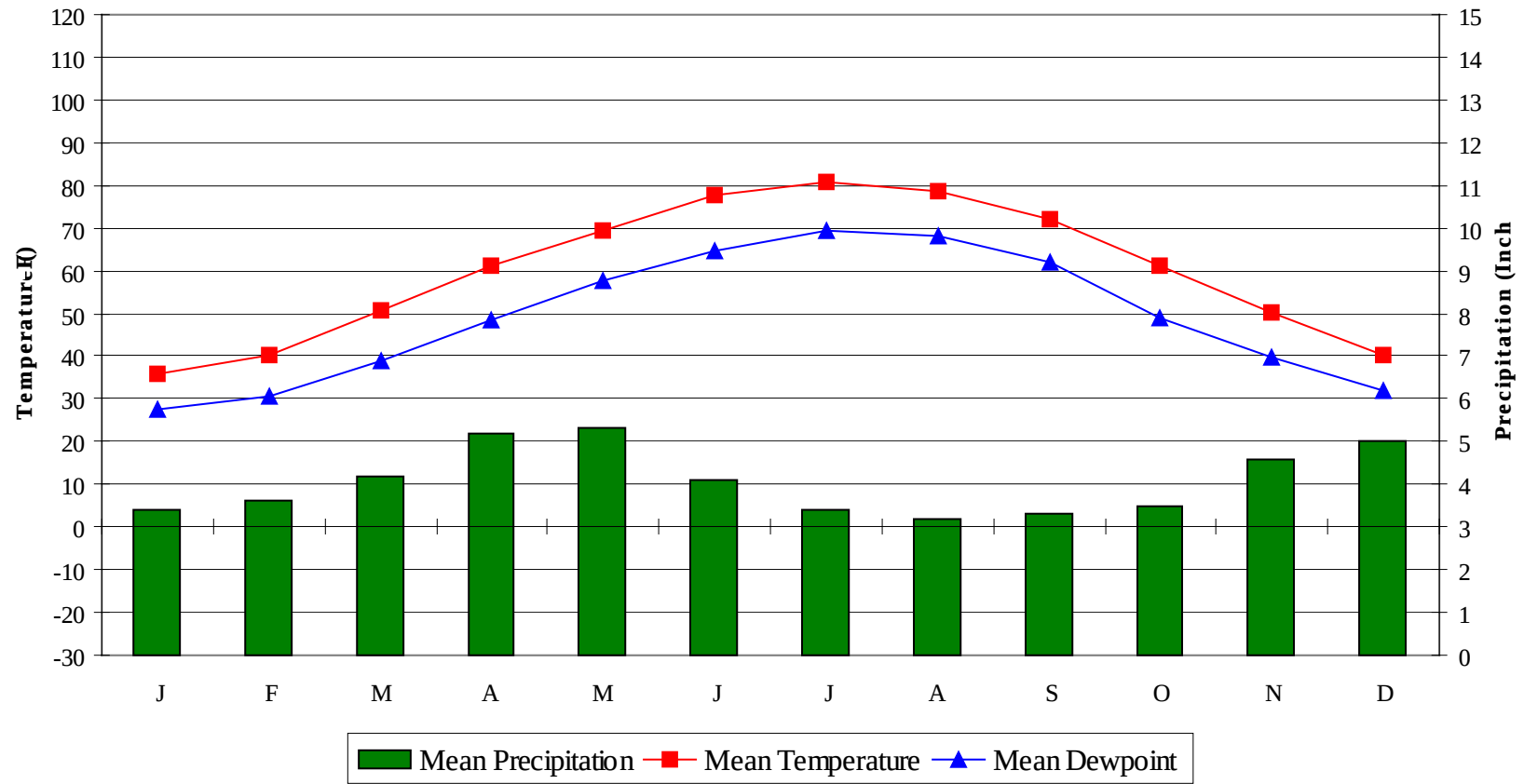
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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WMO No. 723408

Average Annual Climate

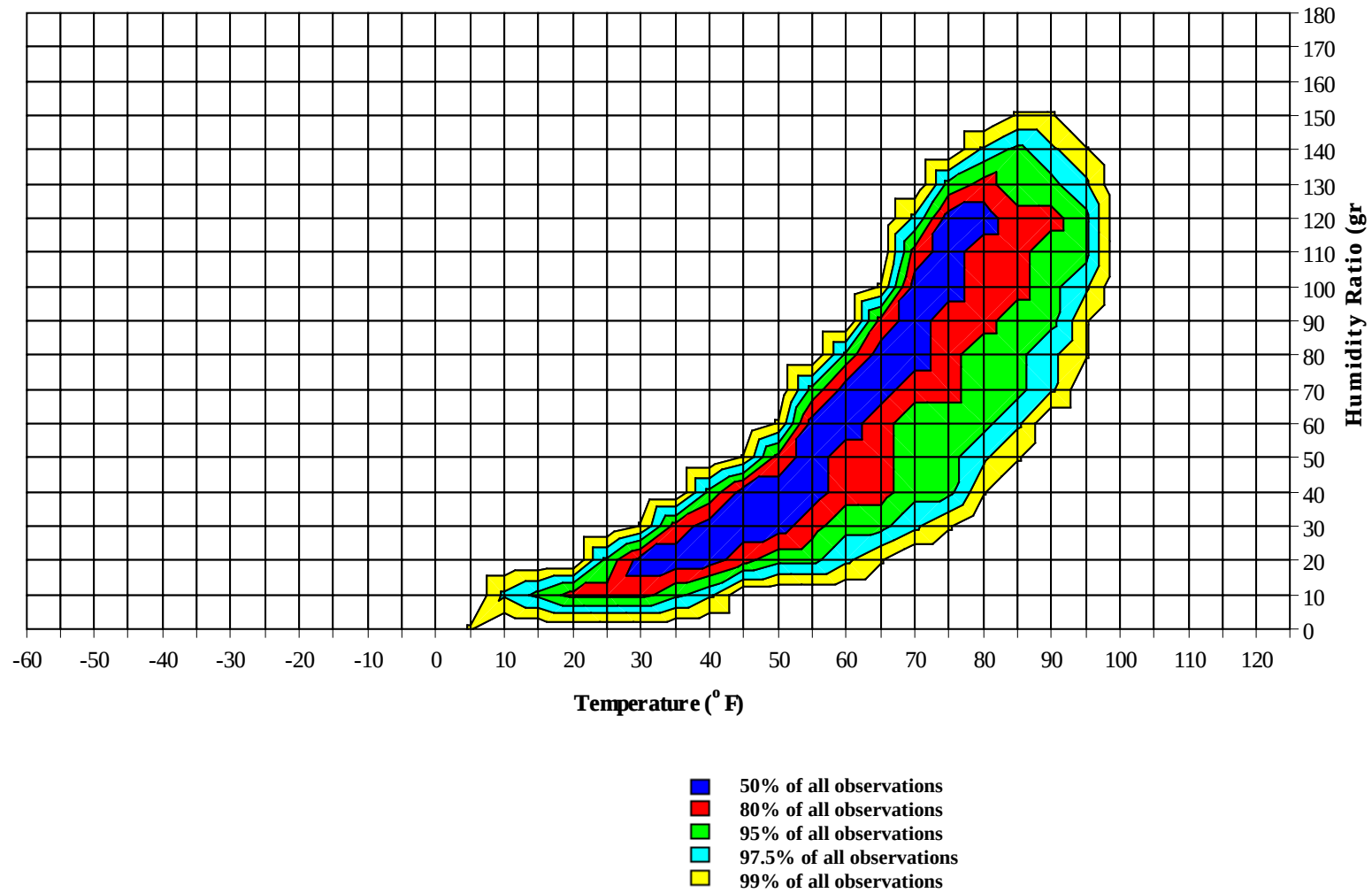


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WMO No. 723408

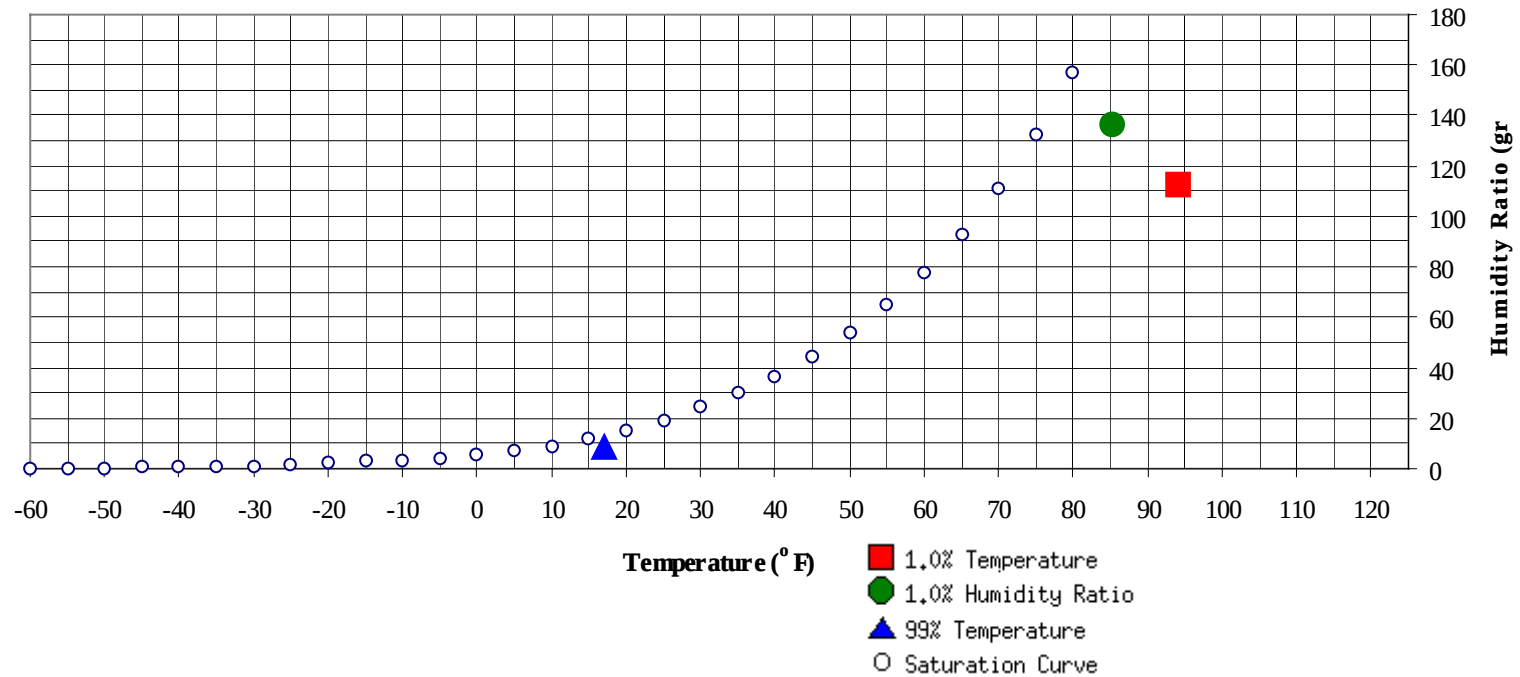
Long Term Psychrometric Summary



EAKER AFB

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WMO No. 723408

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	17	8.5	5.4		136.5	85.2	78.4	75.9	41.9

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	94	112.6	77	40.3

EAKER AFB

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WMO No. 723408

Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)**Period of Record = 1963 to 1992**

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															
80 / 84												4	0	4	65.4
75 / 79							1		1	60.4		9	3	12	63.3
70 / 74		1	0	1	63.3		3	0	4	60.9	1	20	10	31	61.4
65 / 69	0	4	2	6	60.4	1	9	3	12	58.4	8	27	20	56	58.7
60 / 64	4	11	6	22	57.2	5	15	11	30	56.0	20	32	29	81	55.2
55 / 59	7	15	11	32	52.5	8	19	15	42	51.4	29	34	36	99	51.2
50 / 54	10	22	17	49	47.4	12	27	22	61	46.6	35	37	40	111	46.6
45 / 49	14	29	24	68	42.9	23	32	29	84	42.6	35	31	35	101	42.2
40 / 44	23	35	30	89	38.3	33	34	39	106	38.3	36	26	34	97	37.7
35 / 39	41	38	41	121	34.0	36	30	35	101	33.6	42	16	23	81	33.7
30 / 34	54	36	49	139	29.6	46	26	32	104	29.3	30	9	14	53	29.6
25 / 29	37	26	31	94	24.5	27	17	20	63	24.5	8	2	3	12	24.8
20 / 24	25	15	18	59	20.0	17	8	11	36	19.8	3	0	1	4	20.0
15 / 19	16	9	11	36	15.5	11	4	5	20	15.4	1	0	0	1	16.0
10 / 14	8	4	4	17	10.6	5	1	1	7	11.0					
5 / 9	5	2	2	9	6.0	1	0	0	1	6.1					
0 / 4	2	1	1	4	1.2	0	0		0	0.8					
-5 / -1	1	0	0	1	-3.1	0			0	-2.0					
-10 / -6	0	0		0	-6.2										

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.

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WMO No. 723408

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**Period of Record = 1963 to 1992**

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	79.7
95 / 99							0		0	77.0		11	2	13	76.6
90 / 94		1	0	1	70.6		6	1	6	72.7	0	48	13	61	74.9
85 / 89		4	1	5	67.5		30	7	37	71.2	3	63	28	94	72.9
80 / 84		18	5	23	66.4	1	48	20	69	69.0	18	56	52	126	71.4
75 / 79	0	30	15	45	65.0	12	55	39	105	67.0	59	37	68	163	69.8
70 / 74	10	43	32	85	62.7	43	48	60	151	64.9	82	18	51	151	67.3
65 / 69	34	43	45	121	59.9	66	34	58	157	61.7	48	5	21	75	62.9
60 / 64	43	41	46	131	55.9	56	17	38	111	57.5	22	0	6	29	58.4
55 / 59	41	29	40	110	51.2	38	7	19	64	52.9	6		0	7	53.7
50 / 54	42	17	29	89	46.9	24	2	7	33	48.6	1			1	50.4
45 / 49	37	9	17	62	42.9	6	0	1	8	44.1					
40 / 44	21	4	7	33	38.7	1		0	1	39.6					
35 / 39	9	1	3	13	34.2										
30 / 34	3	0	0	3	30.8										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															

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WMO No. 723408

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)**Period of Record = 1963 to 1992**

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		1	0	1	75.7										
100 / 104		6	1	7	77.6		1	0	1	80.1					
95 / 99		22	6	28	78.2		15	3	17	78.8		3	0	3	74.8
90 / 94	1	63	20	83	77.2	0	46	12	58	77.1		17	3	19	76.0
85 / 89	7	73	42	123	75.4	2	71	29	103	75.2		42	10	53	74.0
80 / 84	38	52	69	159	73.9	18	62	56	137	73.6	3	56	24	84	71.5
75 / 79	93	22	70	185	72.2	72	36	76	184	72.0	28	51	52	131	69.8
70 / 74	76	7	33	117	69.1	85	13	51	148	68.8	64	34	58	156	67.5
65 / 69	24	2	7	32	64.1	45	2	18	65	64.2	49	20	42	111	62.8
60 / 64	8		2	10	59.4	19	0	4	24	59.9	41	10	28	79	58.2
55 / 59	1		0	1	56.8	5		1	6	55.1	30	4	16	50	53.8
50 / 54						1		0	1	50.5	17	1	6	24	49.2
45 / 49											6		2	8	44.8
40 / 44											1		0	2	40.9
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.

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WMO No. 723408

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)**Period of Record = 1963 to 1992**

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		1	0	1	70.6										
85 / 89		9	0	9	69.7										
80 / 84	0	25	4	29	67.1		1		1	65.4					
75 / 79	2	37	11	50	64.5		7	0	7	64.0		0		0	69.8
70 / 74	9	47	30	86	62.6	1	20	5	26	62.4	0	1	1	3	66.1
65 / 69	29	42	45	115	60.1	8	27	17	52	60.1	3	7	4	13	62.1
60 / 64	41	40	45	126	55.5	20	33	27	80	56.3	7	17	11	35	57.5
55 / 59	46	26	45	117	51.6	26	35	32	93	51.4	12	20	14	46	52.6
50 / 54	42	16	38	96	47.4	32	38	38	109	46.9	15	30	21	66	47.4
45 / 49	35	4	21	61	43.4	36	34	41	111	42.4	22	37	31	91	42.9
40 / 44	28	1	10	38	39.4	42	27	37	106	38.1	37	44	48	129	38.4
35 / 39	13	0	2	15	35.2	39	11	26	76	34.0	45	40	46	132	34.0
30 / 34	2		0	2	31.1	21	5	11	37	29.3	50	24	39	113	29.5
25 / 29	0			0	27.0	9	2	3	14	24.7	30	13	16	59	24.7
20 / 24						3	1	2	5	19.7	12	7	10	29	19.8
15 / 19						1	0	0	1	15.9	8	4	5	18	15.2
10 / 14						0			0	13.0	4	2	2	7	10.7
5 / 9											1	1	1	3	5.7
0 / 4											1	0	0	2	0.8
-5 / -1											0	0	0	0	-3.4
-10 / -6											0	0		0	-6.3

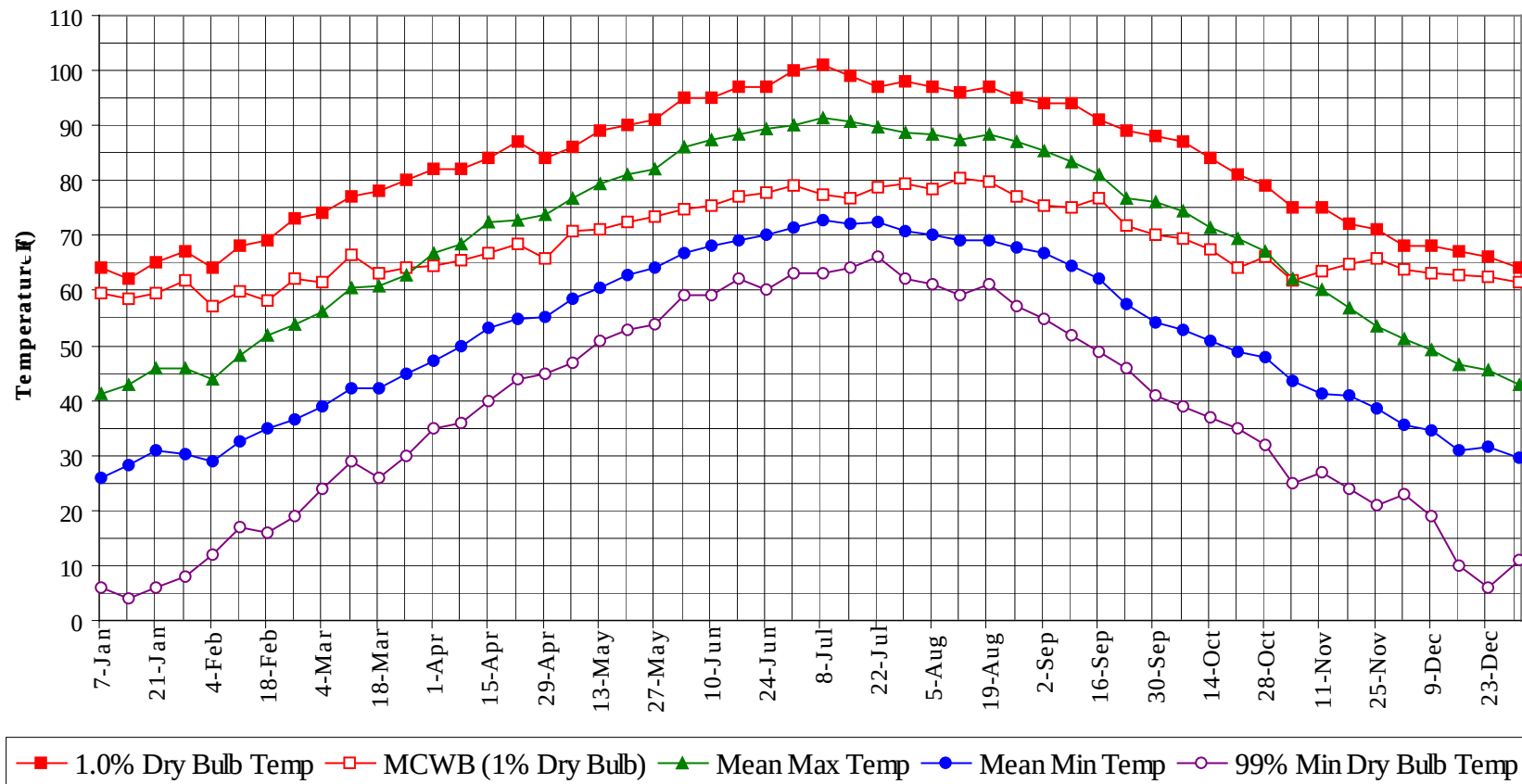
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

EAKER AFB**AR****WMO No. 723408****Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)****Period of Record = 1963 to 1992**

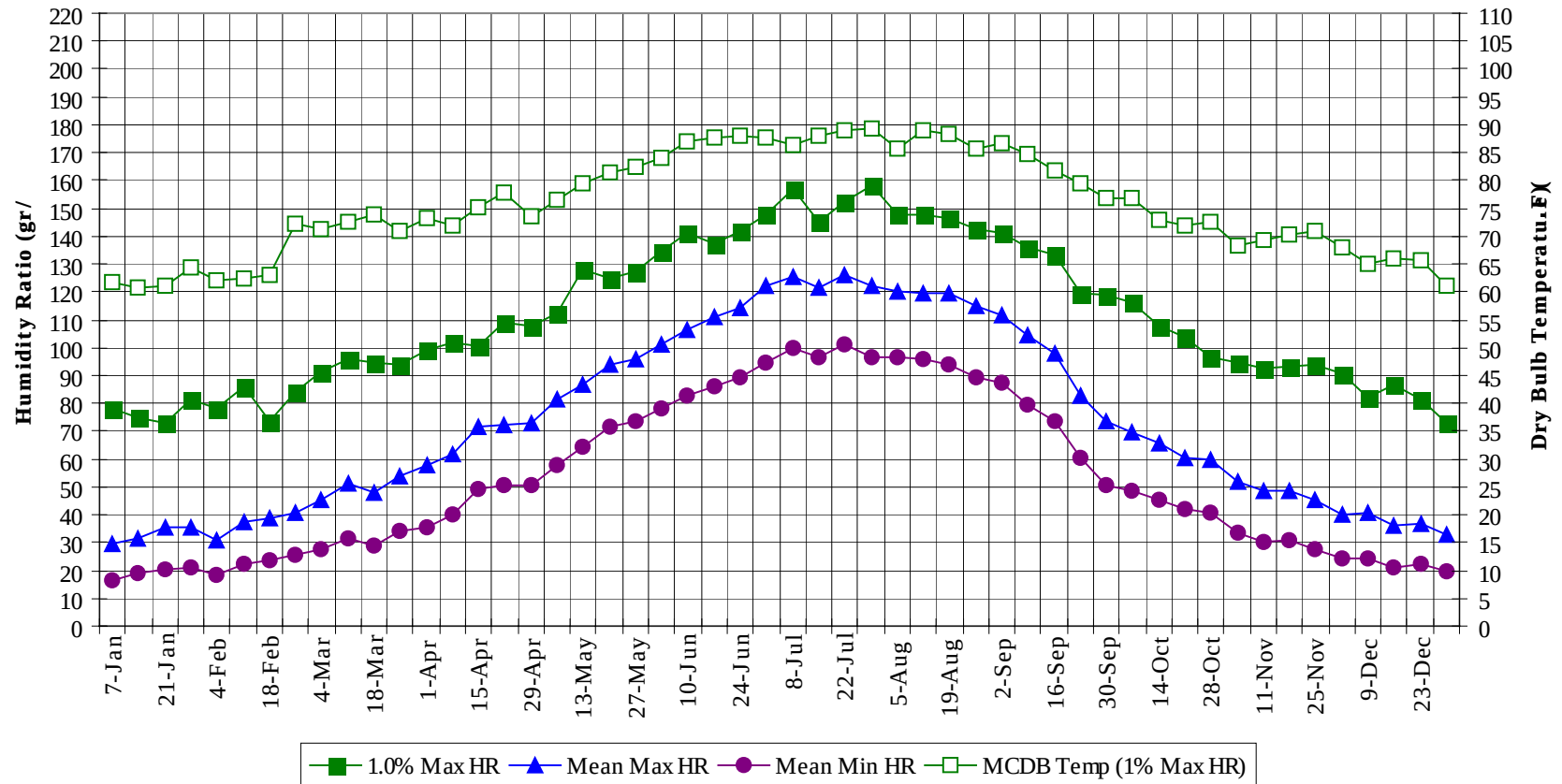
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		1	0	1	75.7
100 / 104		7	1	9	78.2
95 / 99		50	11	61	77.9
90 / 94	1	179	49	228	76.3
85 / 89	12	290	117	420	74.0
80 / 84	78	320	229	627	71.8
75 / 79	263	282	331	876	69.7
70 / 74	368	255	329	952	66.2
65 / 69	313	220	280	814	61.4
60 / 64	285	218	254	757	56.7
55 / 59	247	191	230	668	51.9
50 / 54	233	191	219	642	47.2
45 / 49	216	178	203	596	42.7
40 / 44	224	172	208	604	38.3
35 / 39	227	137	178	542	33.9
30 / 34	208	101	147	456	29.5
25 / 29	112	60	74	246	24.6
20 / 24	60	31	43	135	19.9
15 / 19	39	17	21	77	15.4
10 / 14	17	7	8	31	10.7
5 / 9	7	3	3	13	5.9
0 / 4	3	1	2	6	1.1
-5 / -1	1	0	0	2	-3.2
-10 / -6	0	0		0	-6.2

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



EAKER AFB**AR****WMO No. 723408****Long Term Dry Bulb Temperature and Humidity Summary**

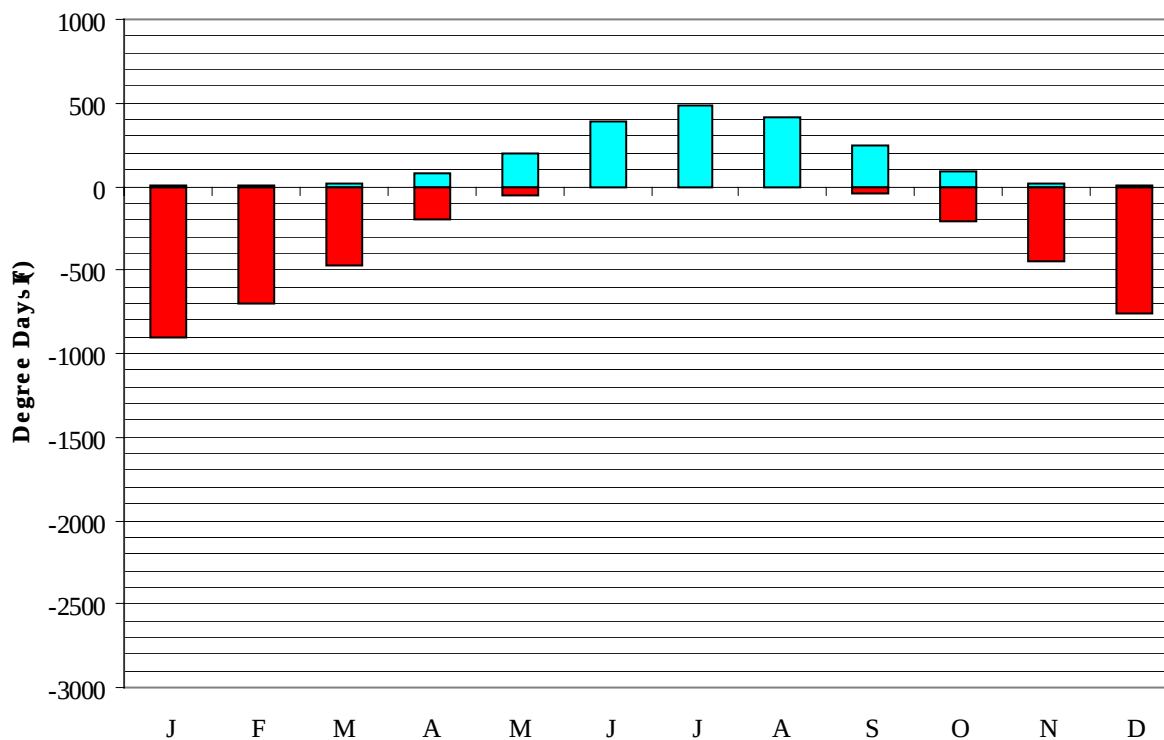
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	64.0	59.3	41.3	26.0	6.0	78.4	61.6	29.7	16.4
14-Jan	62.0	58.4	42.9	28.1	4.0	74.9	60.8	31.4	19.3
21-Jan	65.0	59.4	45.8	30.9	6.0	72.8	61.2	35.4	20.6
28-Jan	67.0	61.7	45.9	30.4	8.0	81.2	64.4	35.6	20.9
4-Feb	64.0	57.3	43.8	28.8	12.0	78.4	62.1	31.1	18.6
11-Feb	68.0	59.8	48.2	32.7	17.0	86.1	62.3	37.6	22.5
18-Feb	69.0	58.1	51.8	34.8	16.0	73.5	63.0	38.7	23.3
25-Feb	73.0	62.3	53.8	36.5	19.0	84.0	72.2	40.7	25.4
4-Mar	74.0	61.4	56.3	38.8	24.0	91.0	71.4	45.3	27.4
11-Mar	77.0	66.5	60.5	42.2	29.0	95.9	72.7	51.6	31.5
18-Mar	78.0	63.3	60.8	42.2	26.0	94.5	73.9	48.0	28.8
25-Mar	80.0	64.3	62.9	44.7	30.0	93.8	71.1	54.1	34.4
1-Apr	82.0	64.4	66.7	47.1	35.0	99.4	73.2	58.0	35.5
8-Apr	82.0	65.3	68.5	49.7	36.0	101.5	71.9	61.5	40.1
15-Apr	84.0	66.9	72.5	53.3	40.0	100.8	75.0	71.9	49.0
22-Apr	87.0	68.5	72.9	54.7	44.0	109.2	77.9	72.5	50.5
29-Apr	84.0	65.8	73.9	55.3	45.0	107.8	73.7	72.9	50.9
6-May	86.0	70.9	76.9	58.4	47.0	112.0	76.4	81.2	57.6
13-May	89.0	71.0	79.4	60.5	51.0	128.1	79.6	87.0	64.1
20-May	90.0	72.4	81.2	62.7	53.0	124.6	81.5	94.1	71.3
27-May	91.0	73.3	82.2	64.2	54.0	127.4	82.3	96.1	73.8
3-Jun	95.0	74.9	86.2	66.7	59.0	134.4	83.9	101.4	78.1
10-Jun	95.0	75.3	87.3	68.1	59.0	141.4	86.9	106.7	82.6
17-Jun	97.0	77.2	88.3	69.2	62.0	137.2	87.6	110.9	85.8
24-Jun	97.0	77.7	89.5	70.3	60.0	142.1	87.9	114.3	89.1
1-Jul	100.0	79.2	90.2	71.4	63.0	147.7	87.8	122.1	94.9
8-Jul	101.0	77.5	91.2	72.8	63.0	156.8	86.3	125.8	99.6
15-Jul	99.0	76.8	90.6	72.2	64.0	144.9	88.0	121.6	96.4
22-Jul	97.0	78.8	89.6	72.4	66.0	152.6	88.9	125.8	101.3
29-Jul	98.0	79.3	88.6	70.8	62.0	158.2	89.3	122.3	96.7
5-Aug	97.0	78.5	88.5	70.3	61.0	147.7	85.8	120.4	96.5
12-Aug	96.0	80.3	87.4	69.3	59.0	147.7	89.0	119.6	96.0
19-Aug	97.0	79.8	88.4	69.3	61.0	146.3	88.4	119.3	94.0
26-Aug	95.0	77.1	86.9	67.9	57.0	142.8	85.8	115.1	89.2
2-Sep	94.0	75.5	85.3	66.7	55.0	141.4	86.8	112.0	87.6
9-Sep	94.0	75.0	83.4	64.3	52.0	135.8	84.8	104.2	79.2
16-Sep	91.0	76.9	81.1	62.3	49.0	133.0	81.8	97.9	73.4
23-Sep	89.0	71.9	76.8	57.5	46.0	119.7	79.6	82.9	60.5
30-Sep	88.0	70.2	76.2	54.0	41.0	119.0	76.9	73.4	50.9
7-Oct	87.0	69.4	74.5	52.9	39.0	116.2	76.8	69.7	48.4
14-Oct	84.0	67.4	71.5	50.8	37.0	107.8	72.8	65.6	45.6
21-Oct	81.0	64.3	69.3	48.9	35.0	103.6	71.9	60.7	42.3
28-Oct	79.0	66.2	67.2	47.9	32.0	96.6	72.6	59.6	40.7
4-Nov	75.0	61.9	62.1	43.4	25.0	94.5	68.4	52.0	33.5
11-Nov	75.0	63.6	60.1	41.3	27.0	92.4	69.4	48.8	30.3
18-Nov	72.0	64.9	56.8	40.7	24.0	93.1	70.3	48.7	30.8
25-Nov	71.0	66.0	53.6	38.4	21.0	93.8	70.8	45.4	27.6
2-Dec	68.0	63.8	51.2	35.5	23.0	90.3	68.1	39.9	24.5
9-Dec	68.0	63.2	49.4	34.6	19.0	81.9	65.1	40.5	24.2
16-Dec	67.0	62.7	46.5	30.8	10.0	86.8	65.9	36.4	20.9
23-Dec	66.0	62.5	45.7	31.6	6.0	81.2	65.7	36.6	22.1
31-Dec	64.0	61.3	42.9	29.4	11.0	72.8	61.1	32.9	19.8

EAKER AFB

AR

WMO No. 723408

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



■ Mean Cooling Degree Days
 ■ Mean Heating Degree Days

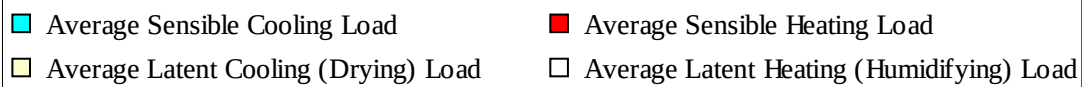
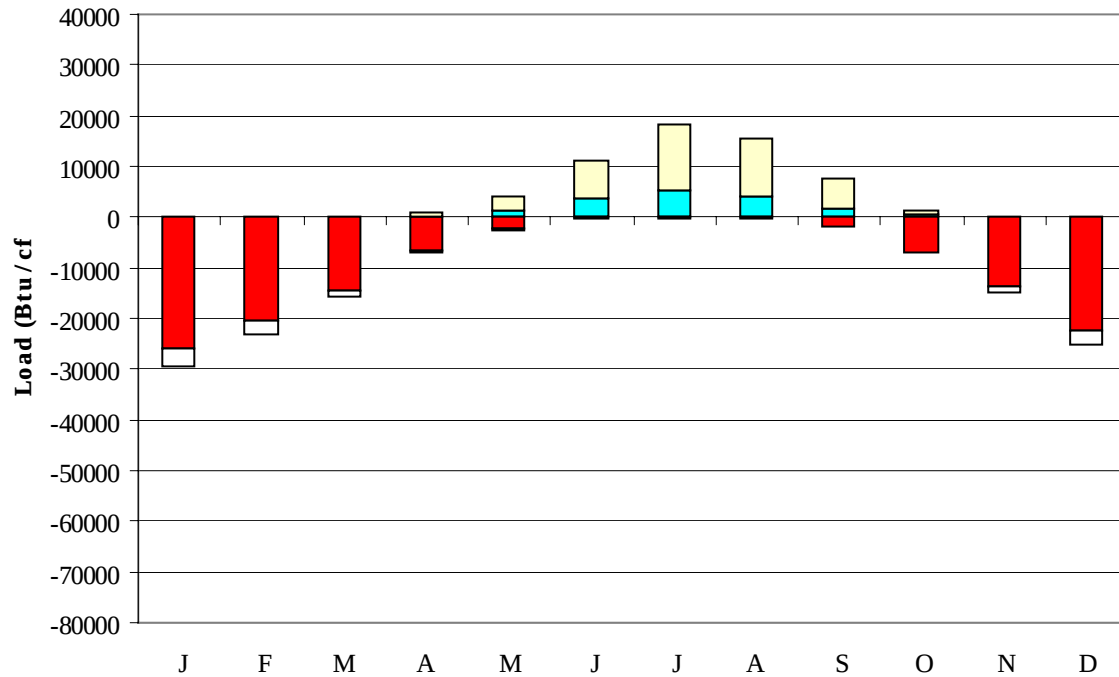
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	1	903
FEB	2	706
MAR	21	470
APR	77	197
MAY	194	59
JUN	388	5
JUL	489	1
AUG	414	5
SEP	246	47
OCT	84	205
NOV	14	445
DEC	2	765
ANN	1931	3808

EAKER AFB

AR

WMO No. 723408

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	0	-25795	9	-3845
FEB	1	-20476	20	-2787
MAR	48	-14333	179	-1351
APR	325	-6696	651	-304
MAY	1250	-2430	2900	-16
JUN	3807	-332	7382	0
JUL	5392	-93	12714	0
AUG	4084	-302	11418	0
SEP	1880	-1869	5923	-2
OCT	414	-6944	902	-202
NOV	17	-13594	186	-1210
DEC	0	-22209	52	-2766
ANN	17218	-115073	42336	-12483

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

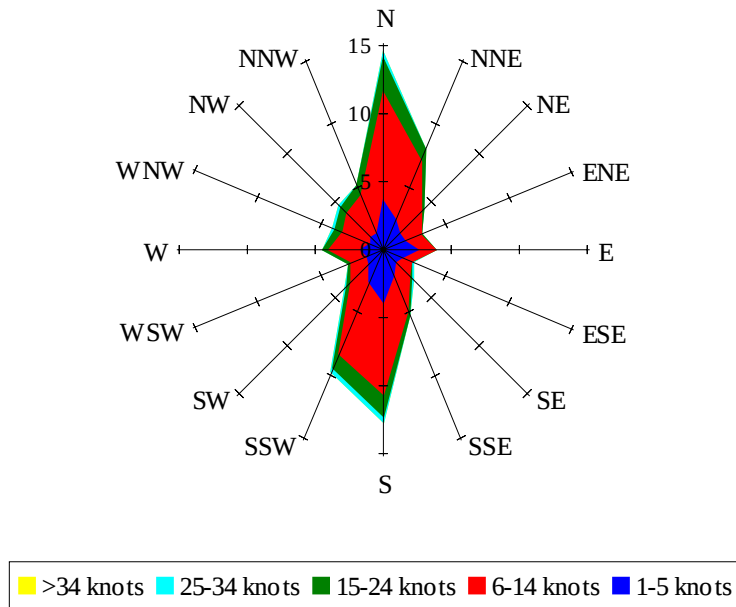
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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

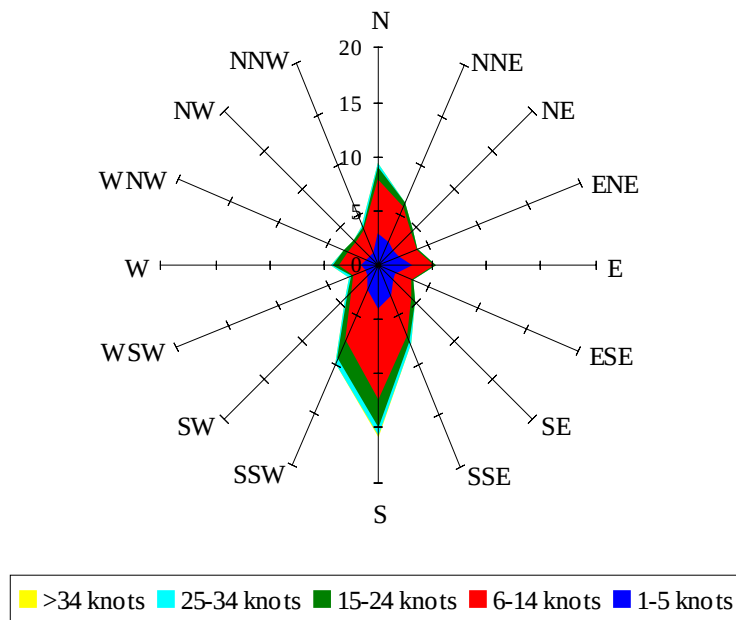
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	30	71	89	81	48	21	49	55	35	3
	M.Cloudy	18	44	61	58	33	11	28	31	20	3
NORTH	M.Clear	9	16	17	17	13	7	11	11	9	2
	M.Cloudy	8	16	19	18	12	5	11	12	8	1
EAST	M.Clear	64	70	28	17	13	50	41	11	9	2
	M.Cloudy	23	36	24	18	12	13	19	12	8	1
SOUTH	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

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



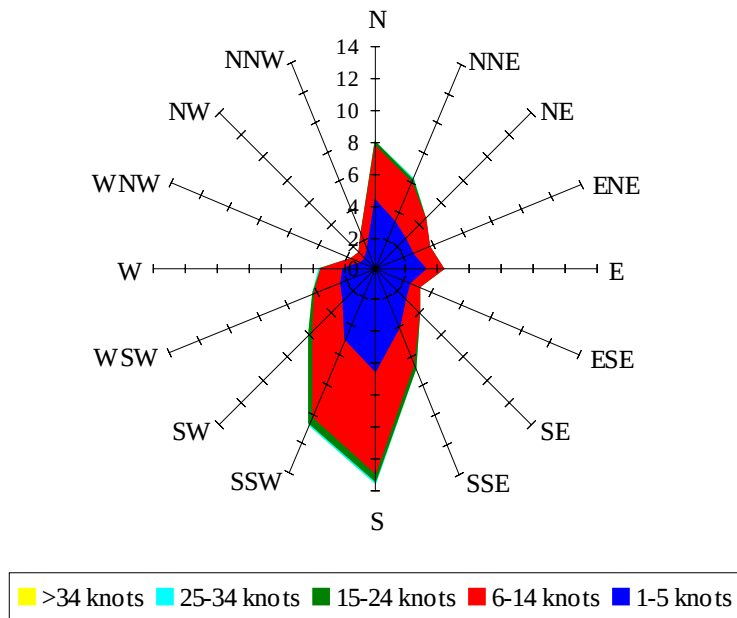
Percent Calm = 9.58

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



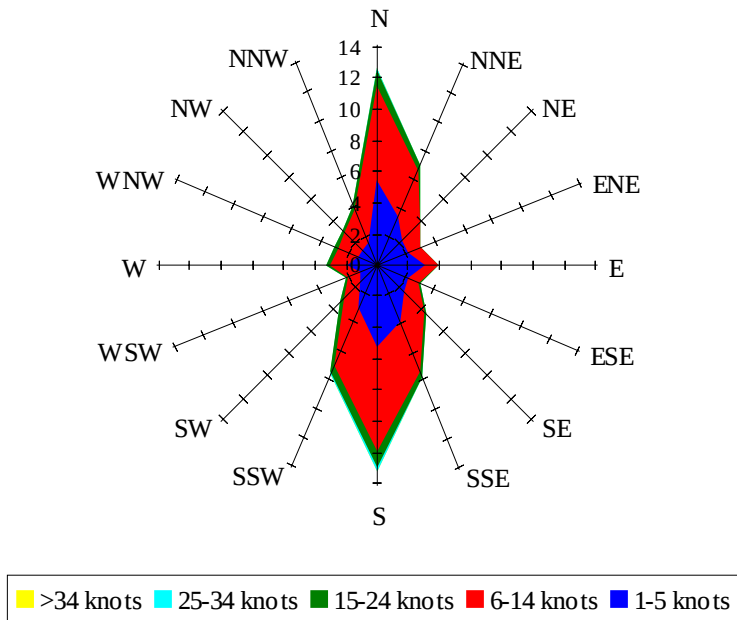
Percent Calm = 8.66

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



Percent Calm = 16.47

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



Percent Calm = 16.59