

MCGUIRE AFB NJ

Latitude = 40.02 N

WMO No. 724096

Longitude = 74.60 W

Elevation = 135 feet

Period of Record = 1967 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	96	78	113	8.4	W
0.4% Occurrence	92	76	108	7.7	W
1.0% Occurrence	89	74	104	8.0	W
2.0% Occurrence	87	73	103	7.7	W
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	19	16	8	8.7	W
99.0% Occurrence	14	12	6	9.5	W
99.6% Occurrence	10	8	5	9.0	W
Median of Extreme Lows	4	2	4	9.1	W
	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	81	90	145	6.8	W
0.4% Occurrence	78	88	129	7.5	SSW
1.0% Occurrence	77	86	125	7.2	SW
2.0% Occurrence	75	83	118	6.5	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	148	88	0.97	5.3	S
0.4% Occurrence	133	83	0.88	7.4	WSW
1.0% Occurrence	127	82	0.85	5.9	S
2.0% Occurrence	123	80	0.82	5.5	SSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		26	676	472	1473

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
7	3.0	110	2.1 + 0.7
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 (#)
56.3	29	20	61

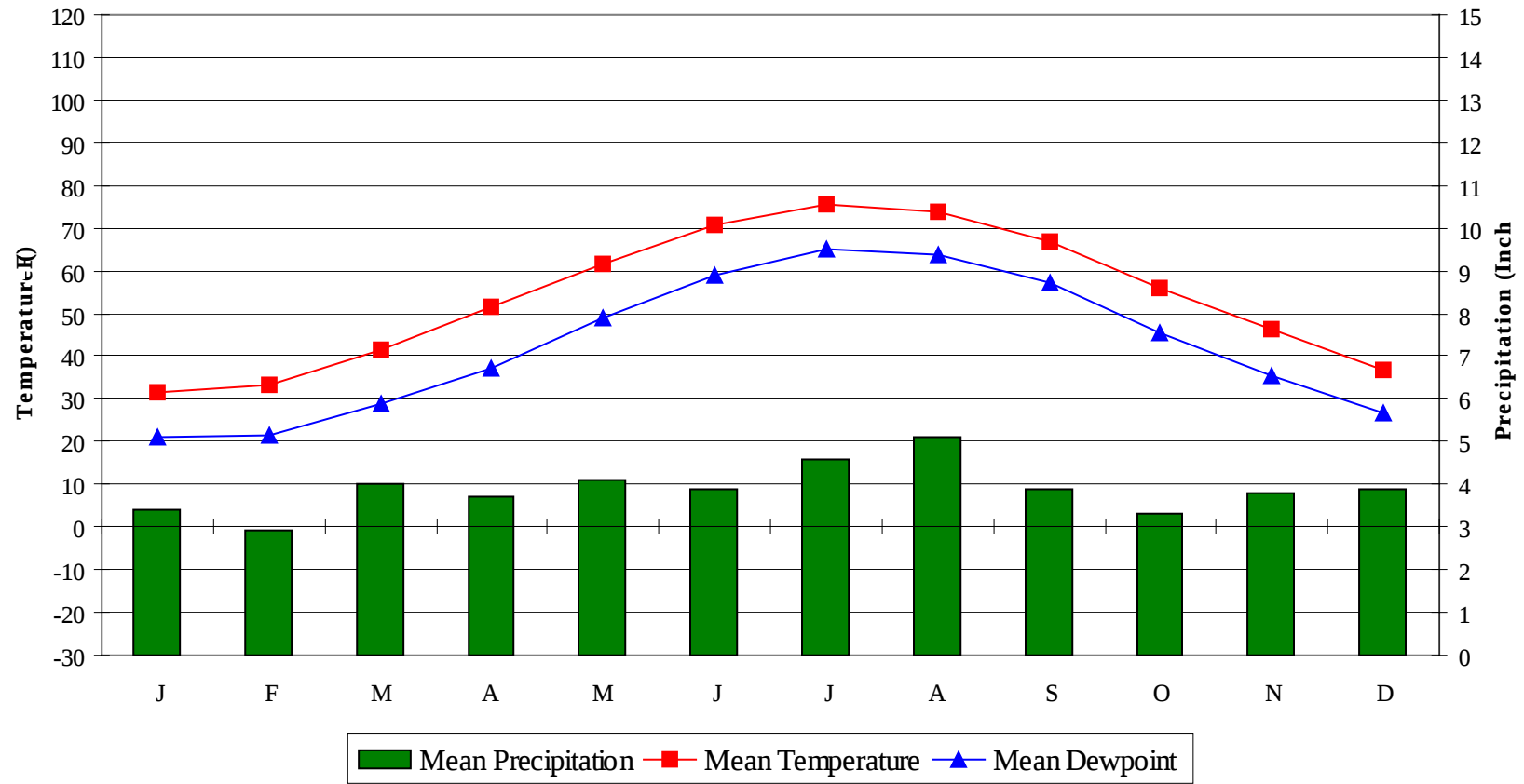
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

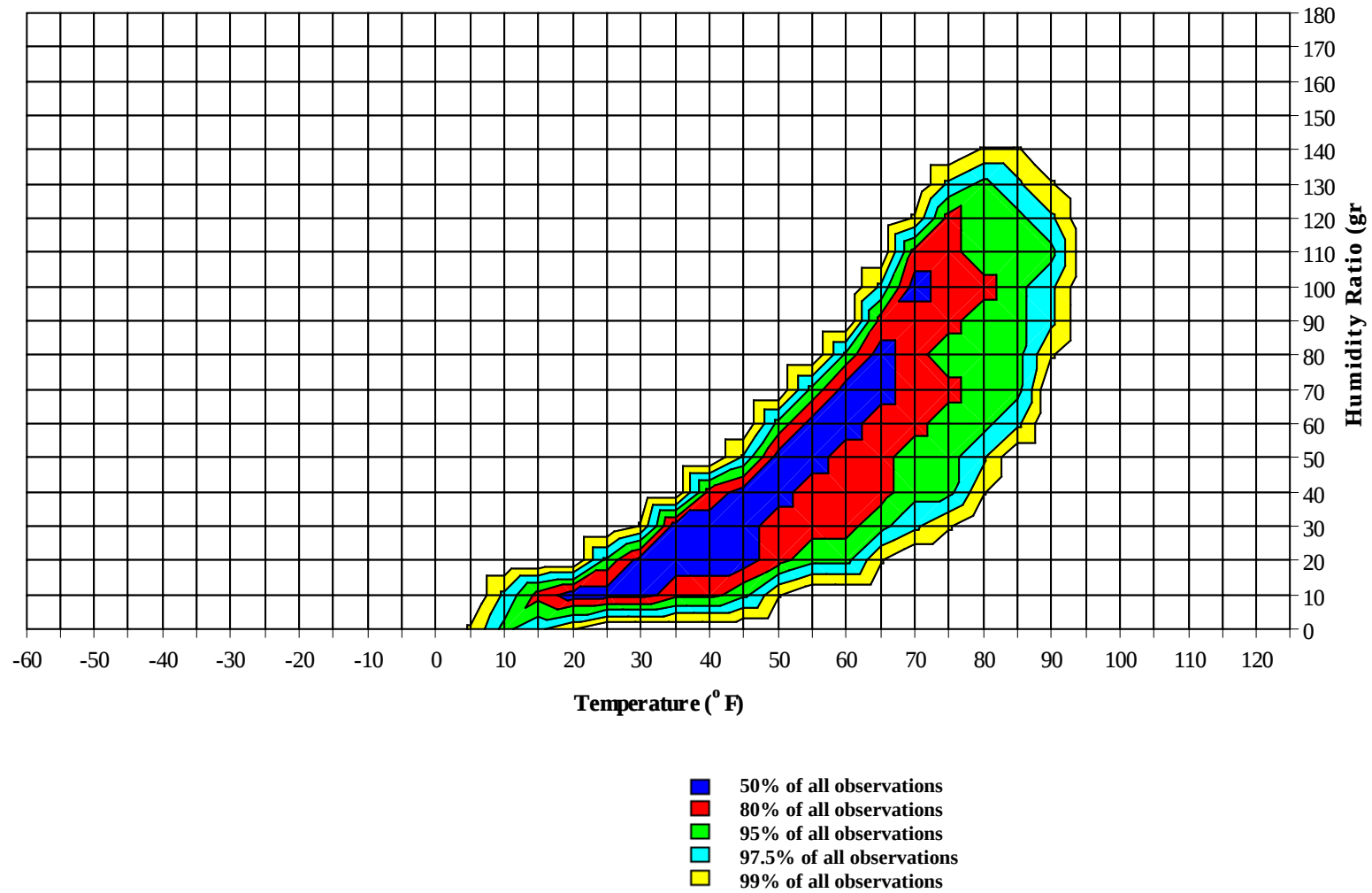


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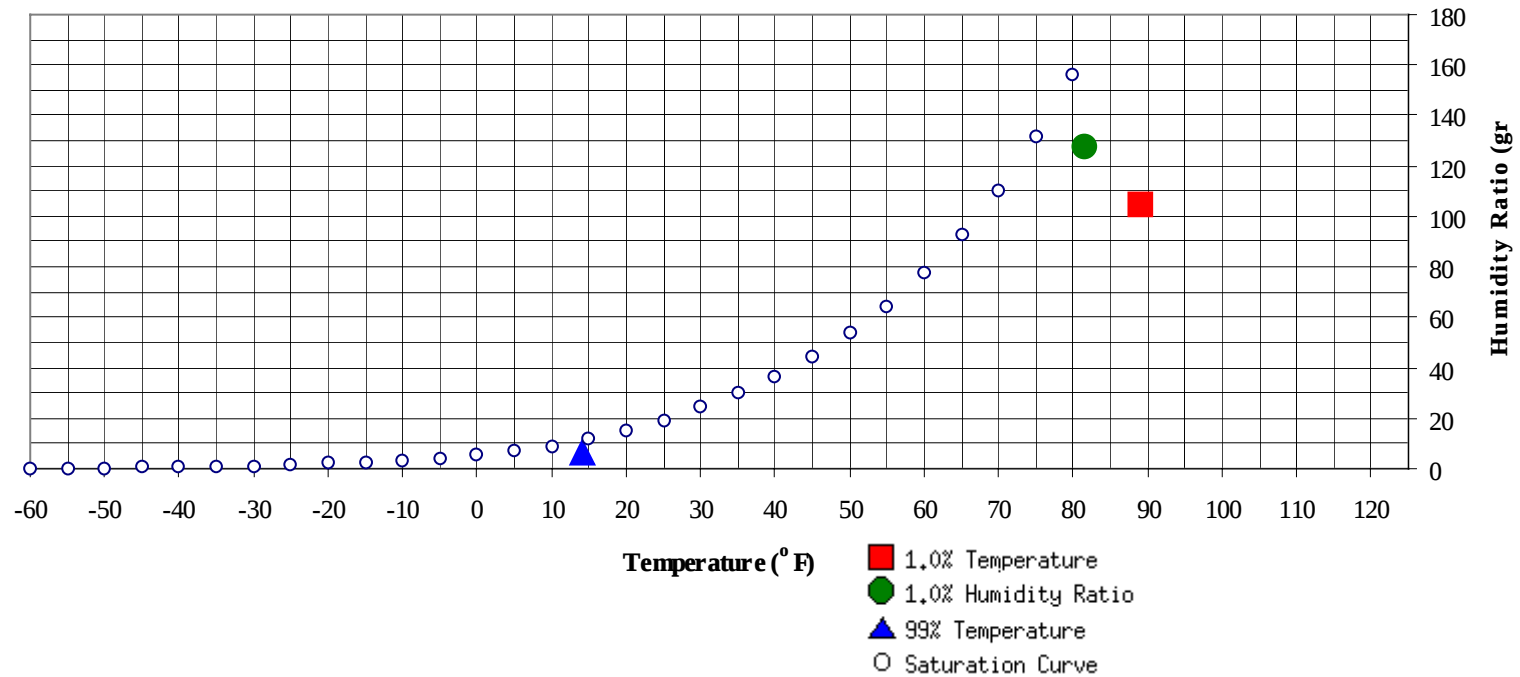
Long Term Psychrometric Summary



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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	14	6.1	4.3	Ratio	127.4	81.6	76.1	74	39.6

1.0% Dry Bulb	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
	89	104.4	74.3	37.8

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

Period of Record = 1967 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		
100 / 104															
95 / 99															
90 / 94															
85 / 89												0		0	67.0
80 / 84												1	0	1	63.5
75 / 79												3	0	4	61.3
70 / 74		0		0	59.5		0	0	0	57.7	0	4	2	6	58.2
65 / 69		2	0	2	58.7	0	2	0	3	53.0	1	9	3	13	55.2
60 / 64	1	3	2	7	56.6	1	5	2	8	53.5	3	15	6	24	52.7
55 / 59	4	6	4	14	53.4	2	8	5	15	49.6	8	24	15	47	49.6
50 / 54	4	11	7	21	47.8	6	15	10	30	46.1	13	35	24	71	45.3
45 / 49	8	23	11	42	42.3	10	24	15	48	41.7	21	40	37	98	41.3
40 / 44	18	37	26	81	37.9	17	35	25	77	37.3	42	49	51	141	37.3
35 / 39	32	44	42	117	33.2	30	41	42	113	33.0	54	37	54	145	33.1
30 / 34	46	44	50	140	28.9	43	36	45	124	28.5	53	20	35	107	28.7
25 / 29	42	34	42	118	23.9	38	29	39	106	23.5	31	7	14	52	23.8
20 / 24	36	23	31	90	19.3	36	18	25	79	19.2	17	3	5	25	19.4
15 / 19	28	12	20	59	14.7	25	7	11	43	14.7	5	1	2	8	14.7
10 / 14	17	6	9	32	10.2	11	3	4	18	10.1	2	0	0	2	10.4
5 / 9	7	2	4	13	5.5	5	1	1	7	5.8	0			0	7.5
0 / 4	4	1	1	6	1.2	1	0	0	1	1.1					
-5 / -1	1	0	0	1	-3.3	0			0	-2.0					
-10 / -6	0			0	-8.5										

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.

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Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**Period of Record = 1967 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		
100 / 104															
95 / 99												1	0	1	76.6
90 / 94		1		1	67.1		2	0	3	72.7		11	2	13	74.3
85 / 89		2	0	3	65.0		9	2	11	70.0	0	30	8	39	72.3
80 / 84		4	1	5	63.6	0	21	7	28	67.2	2	56	21	78	69.3
75 / 79	0	9	3	11	61.1	2	31	13	46	64.2	12	59	39	110	66.8
70 / 74	1	18	8	26	58.3	8	44	25	76	61.2	48	42	57	147	65.4
65 / 69	4	27	13	44	55.3	21	47	37	105	58.7	66	26	55	147	62.3
60 / 64	12	36	25	73	52.7	44	43	48	135	55.8	58	13	38	109	58.3
55 / 59	22	46	34	102	49.2	55	32	53	139	52.2	36	3	15	54	53.9
50 / 54	34	43	46	123	45.6	59	16	41	116	48.4	14	0	3	18	49.1
45 / 49	51	33	52	136	41.9	39	3	17	59	44.0	3		0	4	44.5
40 / 44	57	15	38	110	38.1	16	1	4	21	39.2					
35 / 39	36	4	15	55	33.3	4		0	4	34.7					
30 / 34	19	1	5	25	29.2	0			0	29.5					
25 / 29	4	0	1	5	24.5										
20 / 24	1	0	0	1	19.4										
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															

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Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)**Period of Record = 1967 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		
100 / 104		1		1	79.9										
95 / 99		5	1	6	77.7		2	0	2	78.4		1	0	1	76.1
90 / 94	0	26	5	31	76.3		17	2	19	75.9		5	0	5	76.0
85 / 89	1	53	19	73	73.8	0	51	11	62	74.0		15	2	17	72.9
80 / 84	8	72	39	119	71.4	3	72	32	107	71.2	0	35	10	45	70.5
75 / 79	42	55	63	160	69.9	30	62	58	150	69.7	8	51	26	85	68.2
70 / 74	87	27	72	186	67.8	81	31	74	187	67.7	33	57	47	137	65.7
65 / 69	66	7	37	109	63.7	69	11	46	125	63.5	47	44	50	141	61.8
60 / 64	33	1	12	46	59.3	42	2	20	64	59.1	53	24	52	129	58.0
55 / 59	11	0	1	12	54.6	18	0	4	22	54.3	47	7	32	86	53.5
50 / 54	1		0	1	50.0	4		1	5	49.7	30	1	15	46	48.8
45 / 49						1		0	1	44.2	16	0	5	22	44.3
40 / 44						0			0	40.2	5		1	6	40.1
35 / 39											0			0	35.9
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 (Sheet 4 of 5)**Period of Record = 1967 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		
100 / 104															
95 / 99															
90 / 94															
85 / 89		1		1	70.5										
80 / 84		6	0	7	68.5		0		0	67.5					
75 / 79	1	17	3	20	66.1		2	0	3	64.1					
70 / 74	3	34	10	47	63.4	0	7	2	9	63.2		0	0	0	64.4
65 / 69	13	44	26	83	60.3	4	14	5	24	59.9	0	2	1	4	60.0
60 / 64	27	48	36	112	56.3	9	25	16	50	56.6	3	7	4	15	56.7
55 / 59	40	50	50	139	51.8	16	34	23	73	51.7	6	11	7	24	52.9
50 / 54	43	31	50	124	47.2	26	42	33	102	46.8	10	21	13	44	47.6
45 / 49	48	13	40	101	43.1	36	48	43	128	42.1	17	37	24	79	42.8
40 / 44	39	3	22	65	39.0	44	38	48	130	37.3	29	48	41	118	37.9
35 / 39	24	1	9	35	34.7	43	20	39	101	33.0	43	49	48	140	33.1
30 / 34	8		1	10	30.0	37	7	22	65	29.0	51	34	47	132	28.7
25 / 29	1			1	25.8	18	1	7	26	24.8	39	21	34	94	24.1
20 / 24						5	0	2	7	20.3	25	12	16	53	19.5
15 / 19						1		0	1	17.0	16	4	9	30	15.0
10 / 14											5	1	2	9	10.7
5 / 9											2	0	1	3	5.4
0 / 4											0			0	1.2
-5 / -1															
-10 / -6															

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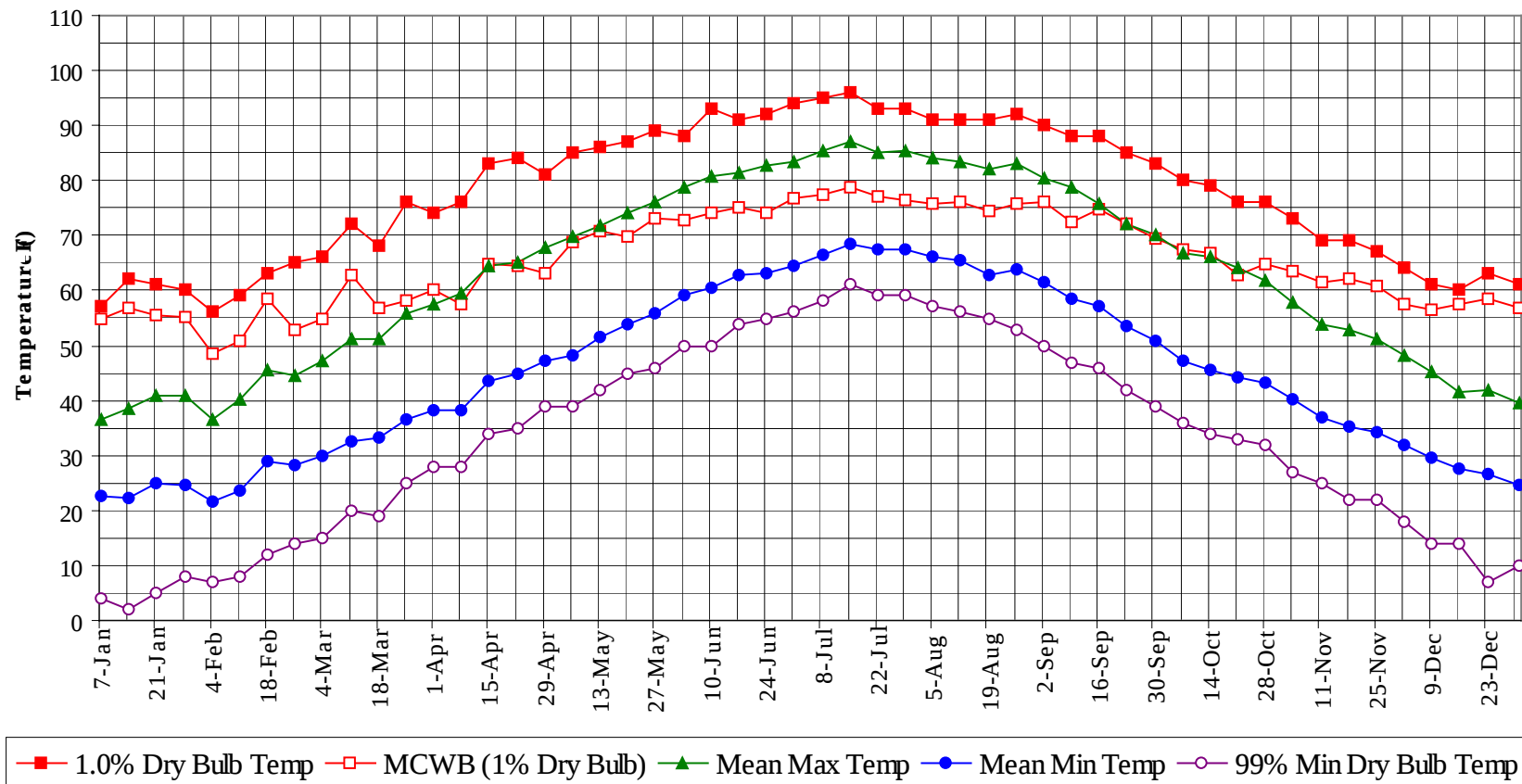
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1967 to 1996

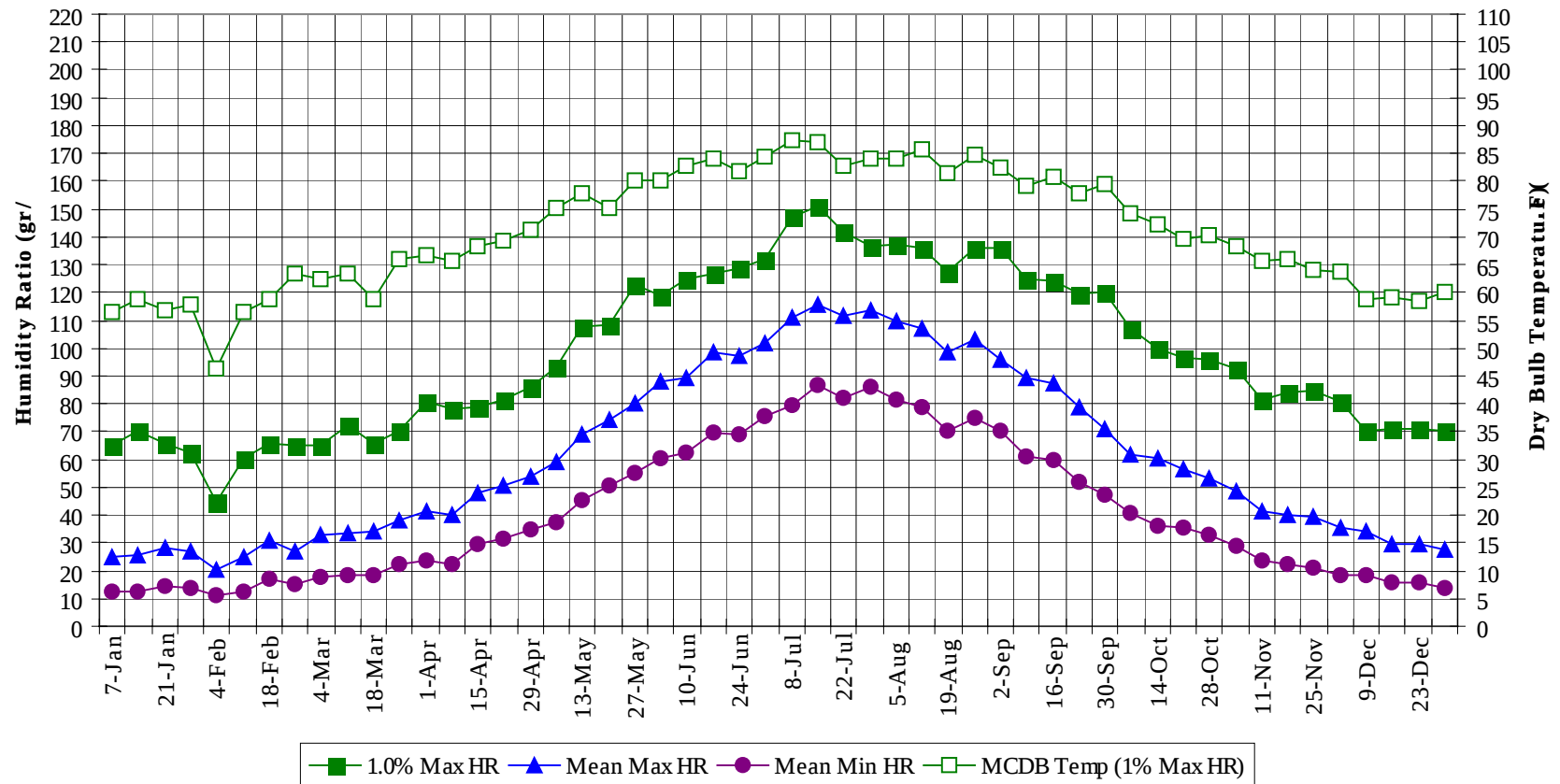
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		1		1	79.9
95 / 99		9	1	10	77.6
90 / 94	0	61	10	70	75.6
85 / 89	1	162	43	206	73.2
80 / 84	14	266	110	390	70.3
75 / 79	94	288	204	587	68.2
70 / 74	260	264	296	820	65.7
65 / 69	291	234	273	798	61.3
60 / 64	286	222	262	770	56.7
55 / 59	263	221	243	728	51.9
50 / 54	244	215	242	702	47.0
45 / 49	251	221	245	716	42.4
40 / 44	268	226	257	751	37.8
35 / 39	266	196	249	712	33.2
30 / 34	257	143	206	605	28.8
25 / 29	173	93	138	403	23.9
20 / 24	121	56	79	256	19.3
15 / 19	75	24	43	142	14.8
10 / 14	35	10	15	60	10.2
5 / 9	14	3	6	24	5.6
0 / 4	6	1	1	8	1.1
-5 / -1	1	0	0	1	-3.2
-10 / -6	0			0	-8.5

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



MCGUIRE AFB**NJ****WMO No. 724096****Long Term Dry Bulb Temperature and Humidity Summary**

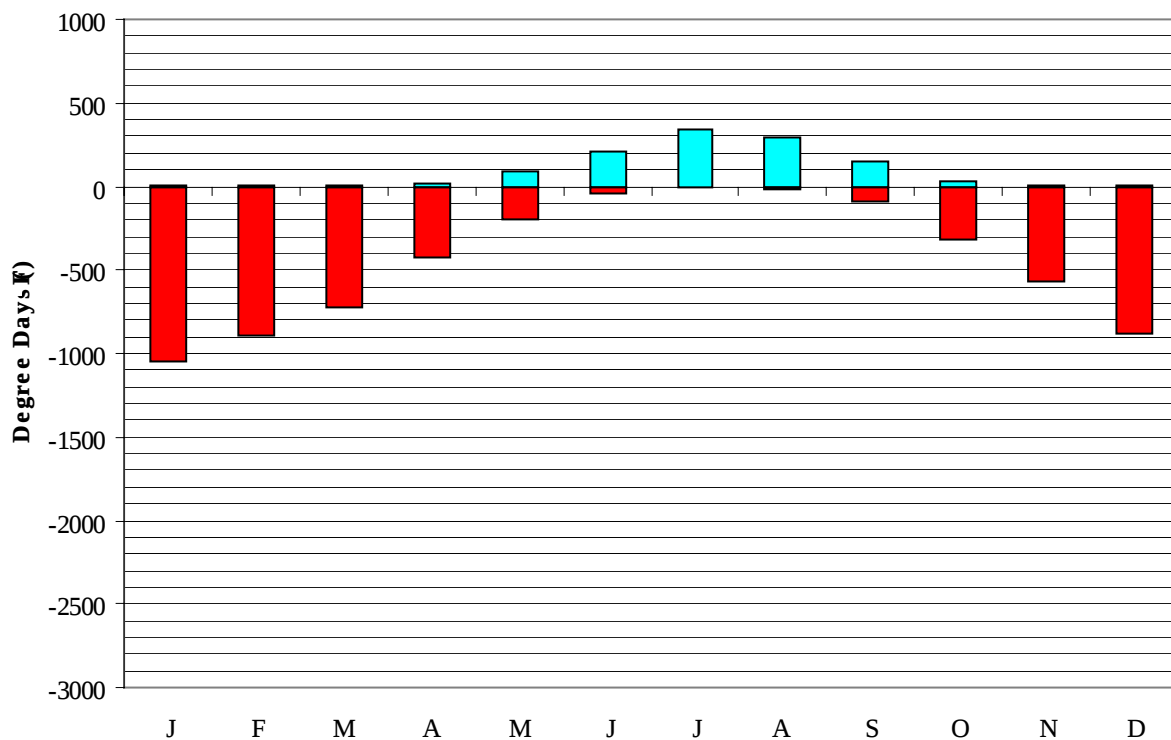
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	57.0	54.8	36.5	22.5	4.0	65.1	56.6	24.7	12.6
14-Jan	62.0	56.7	38.5	22.3	2.0	70.0	58.9	25.4	12.8
21-Jan	61.0	55.4	40.9	24.9	5.0	65.8	56.9	28.0	14.4
28-Jan	60.0	55.3	40.8	24.6	8.0	62.3	57.6	26.8	13.5
4-Feb	56.0	48.4	36.7	21.5	7.0	44.8	46.3	20.7	10.9
11-Feb	59.0	51.0	40.1	23.6	8.0	60.2	56.6	24.7	12.3
18-Feb	63.0	58.5	45.7	28.8	12.0	65.8	58.7	31.0	17.3
25-Feb	65.0	52.8	44.6	28.2	14.0	65.1	63.3	26.9	15.0
4-Mar	66.0	55.0	47.3	30.1	15.0	65.1	62.5	32.7	17.7
11-Mar	72.0	62.7	51.1	32.5	20.0	72.1	63.4	33.8	18.1
18-Mar	68.0	56.8	51.2	33.2	19.0	65.8	58.8	34.1	18.7
25-Mar	76.0	58.1	55.9	36.6	25.0	70.0	65.9	38.4	22.3
1-Apr	74.0	60.2	57.6	38.3	28.0	80.5	66.7	41.4	23.4
8-Apr	76.0	57.3	59.4	38.3	28.0	78.4	65.7	39.8	22.5
15-Apr	83.0	64.7	64.4	43.4	34.0	79.1	68.4	48.1	29.4
22-Apr	84.0	64.5	65.3	44.8	35.0	81.2	69.3	50.7	31.3
29-Apr	81.0	63.1	67.7	47.3	39.0	86.1	71.2	54.1	34.6
6-May	85.0	68.7	69.7	48.1	39.0	93.1	75.3	59.1	37.4
13-May	86.0	70.7	71.8	51.4	42.0	107.8	77.9	68.6	45.0
20-May	87.0	69.7	74.0	53.8	45.0	108.5	75.2	74.4	50.4
27-May	89.0	73.0	76.3	55.9	46.0	122.5	80.0	80.4	54.9
3-Jun	88.0	72.9	78.9	59.1	50.0	119.0	80.2	88.0	60.2
10-Jun	93.0	74.1	80.9	60.3	50.0	124.6	82.9	89.4	62.6
17-Jun	91.0	75.1	81.5	62.8	54.0	126.7	84.2	98.3	69.9
24-Jun	92.0	74.1	82.6	63.0	55.0	128.8	81.6	97.0	68.8
1-Jul	94.0	76.9	83.4	64.5	56.0	132.3	84.2	102.1	75.5
8-Jul	95.0	77.6	85.4	66.6	58.0	147.0	87.3	110.7	79.4
15-Jul	96.0	78.6	87.1	68.4	61.0	151.2	87.1	115.6	86.8
22-Jul	93.0	77.1	85.0	67.5	59.0	142.1	82.7	111.6	82.3
29-Jul	93.0	76.5	85.5	67.6	59.0	136.5	84.2	113.7	86.2
5-Aug	91.0	75.7	84.2	66.3	57.0	137.2	84.1	109.8	81.6
12-Aug	91.0	76.0	83.3	65.4	56.0	135.8	85.6	107.4	78.8
19-Aug	91.0	74.5	82.0	62.8	55.0	127.4	81.6	98.5	70.1
26-Aug	92.0	75.9	83.2	63.8	53.0	135.8	84.9	103.3	74.7
2-Sep	90.0	76.2	80.5	61.5	50.0	135.8	82.5	95.7	70.0
9-Sep	88.0	72.5	78.9	58.4	47.0	124.6	79.1	89.2	60.8
16-Sep	88.0	74.7	75.7	57.1	46.0	123.9	80.7	87.3	60.0
23-Sep	85.0	72.0	72.2	53.6	42.0	119.7	77.7	78.5	51.7
30-Sep	83.0	69.5	70.3	50.9	39.0	120.4	79.4	70.9	47.0
7-Oct	80.0	67.6	66.8	47.1	36.0	107.1	74.2	61.9	40.9
14-Oct	79.0	66.7	66.0	45.5	34.0	100.1	72.2	60.7	36.4
21-Oct	76.0	62.9	64.0	44.3	33.0	96.6	69.6	56.7	35.2
28-Oct	76.0	64.9	61.8	43.1	32.0	95.9	70.3	52.9	32.9
4-Nov	73.0	63.4	57.8	40.2	27.0	92.4	68.5	48.3	29.2
11-Nov	69.0	61.5	53.8	36.8	25.0	81.2	65.5	41.1	23.8
18-Nov	69.0	62.3	52.7	35.2	22.0	84.0	66.1	40.0	22.6
25-Nov	67.0	60.7	51.3	34.2	22.0	84.7	64.2	39.1	21.0
2-Dec	64.0	57.5	48.1	31.8	18.0	80.5	63.7	35.5	18.6
9-Dec	61.0	56.5	45.2	29.7	14.0	70.0	58.7	34.0	18.2
16-Dec	60.0	57.6	41.7	27.4	14.0	70.7	59.1	29.6	15.9
23-Dec	63.0	58.5	41.8	26.5	7.0	70.7	58.3	29.8	15.7
31-Dec	61.0	56.8	39.6	24.6	10.0	70.0	60.0	27.8	13.7

MCGUIRE AFB

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WMO No. 724096

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



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

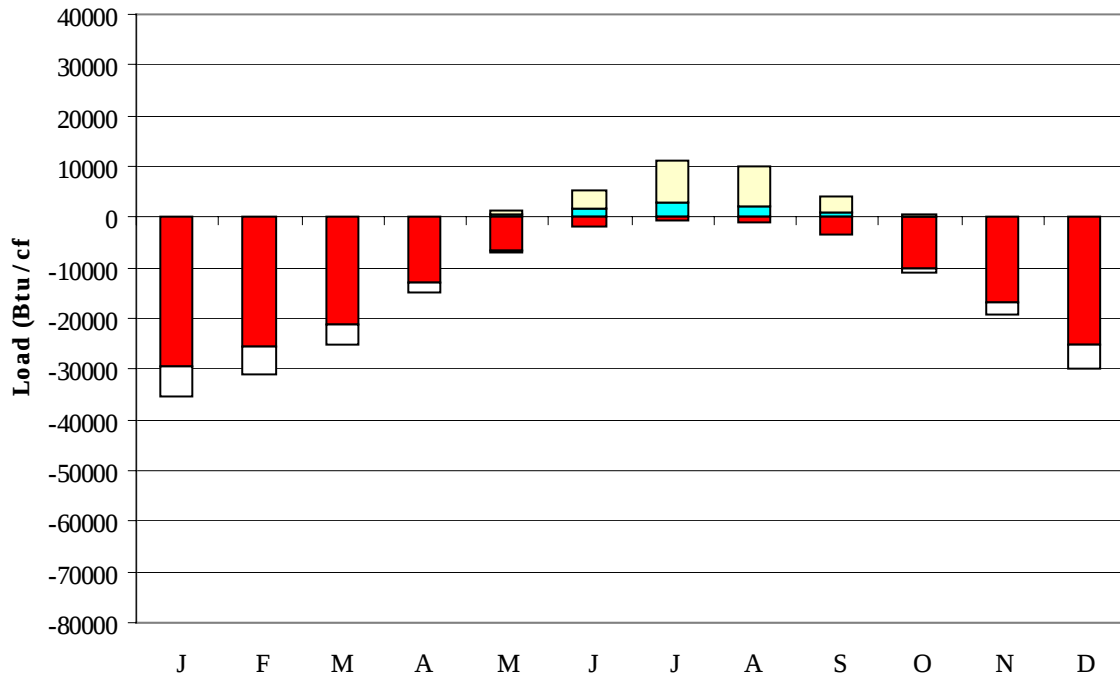
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1044
FEB	0	898
MAR	5	730
APR	23	423
MAY	84	194
JUN	215	42
JUL	337	9
AUG	293	17
SEP	145	89
OCT	34	319
NOV	5	569
DEC	0	882
ANN	1142	5216

MCGUIRE AFB

NJ

WMO No. 724096

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	0	-29477	2	-6111
FEB	0	-25462	0	-5452
MAR	13	-21284	3	-3880
APR	104	-13050	29	-1767
MAY	465	-6717	779	-241
JUN	1542	-1854	3770	-5
JUL	2826	-543	8468	0
AUG	2230	-873	7651	0
SEP	796	-3438	3365	-25
OCT	93	-10300	585	-541
NOV	6	-17003	97	-2336
DEC	0	-25263	10	-4598
ANN	8075	-155264	24759	-24956

Average Annual Solar Radiation – Nearest Available Site

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

City: ATLANTIC CITY
 State: NJ
 WBAN No: 93730
 Lat(N): 39.45
 Long(W): 74.57
 Elev(ft): 66

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.518
 Vert Gap: 0.318

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	650	900	1230	1540	1780	1930	1870	1690	1390	1050	710	560	1280
	Std Dev	45	79	94	119	112	118	116	94	88	86	57	43	31
	Minimum	550	760	1040	1300	1620	1700	1620	1470	1240	870	590	470	1220
	Maximum	730	1070	1410	1770	2040	2140	2160	1890	1560	1210	830	640	1350
	Diffuse	300	410	540	690	820	860	850	750	610	430	320	270	570
Clear Day	Global	920	1260	1730	2200	2490	2590	2510	2240	1830	1360	970	810	1740
NORTH	Global	190	260	340	430	540	600	570	470	380	290	210	170	370
	Diffuse	190	260	340	430	500	530	510	460	380	290	210	170	360
Clear Day	Global	180	240	320	430	570	670	620	470	360	270	190	160	370
EAST	Global	450	590	760	910	980	1050	1020	960	830	670	480	390	760
	Diffuse	240	320	420	520	590	630	620	560	470	360	260	210	430
Clear Day	Global	700	900	1130	1320	1410	1430	1400	1300	1150	920	720	630	1080
SOUTH	Global	1050	1120	1090	960	830	770	800	920	1070	1190	1060	970	980
	Diffuse	340	410	480	530	570	570	570	560	520	440	360	310	470
Clear Day	Global	1930	1950	1770	1400	1070	920	970	1220	1570	1830	1870	1850	1530
WEST	Global	440	580	750	890	990	1060	1030	960	830	670	470	390	760
	Diffuse	240	320	420	520	600	630	630	570	480	360	260	210	440
Clear Day	Global	700	900	1130	1320	1410	1430	1400	1300	1150	920	720	630	1080

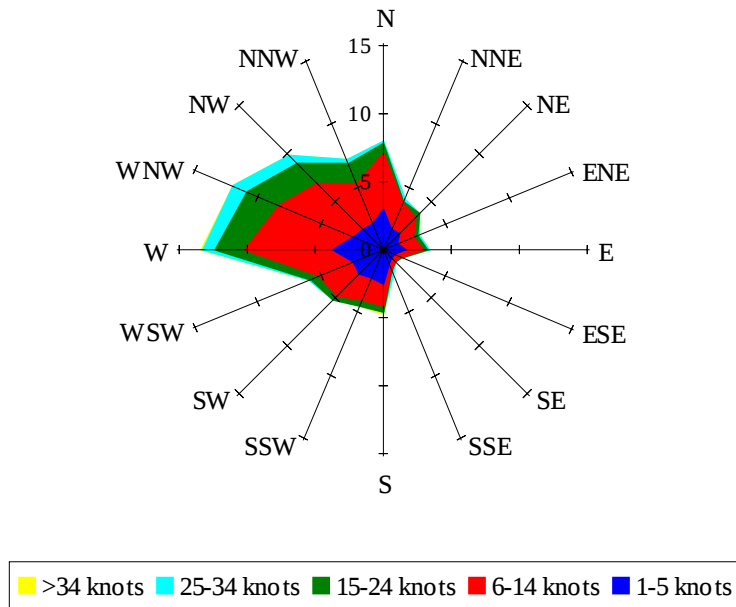
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	420	610	870	1110	1290	1410	1360	1220	990	730	470	360	900
NORTH	Unshaded	140	180	240	300	360	390	380	320	260	200	150	120	250
	Shaded	120	160	210	260	320	350	340	290	240	180	130	110	220
EAST	Unshaded	310	410	540	650	690	740	720	680	590	470	330	270	530
	Shaded	280	370	470	560	590	630	620	580	510	420	300	240	470
SOUTH	Unshaded	790	820	760	620	510	470	490	590	720	850	790	730	680
	Shaded	770	760	600	410	350	350	350	380	530	750	770	710	560
WEST	Unshaded	300	400	530	630	700	750	730	680	590	470	320	260	530
	Shaded	270	360	460	540	600	640	620	580	520	420	290	240	460

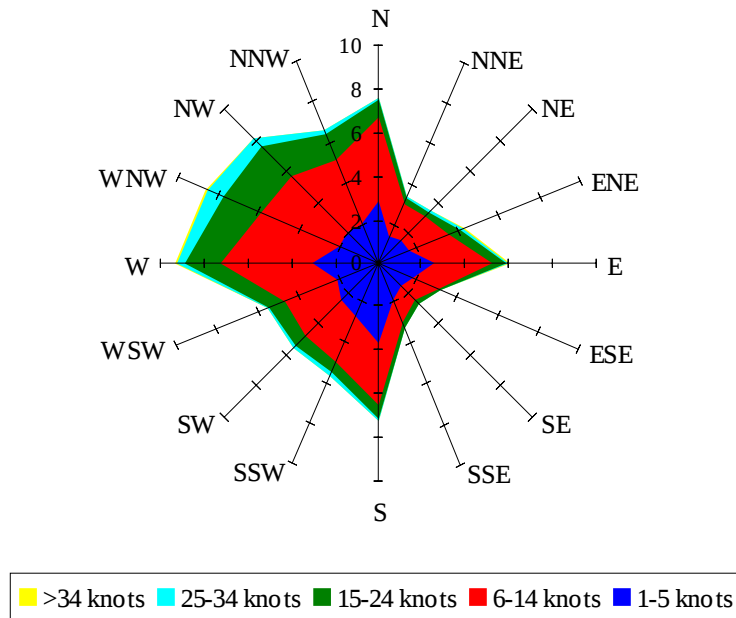
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	41	72	80	62	25	47	83	99	93	65
	M.Cloudy	23	45	49	39	15	31	56	71	68	45
NORTH	M.Clear	10	14	15	13	7	18	16	17	17	15
	M.Cloudy	9	15	16	14	6	14	17	19	19	15
EAST	M.Clear	74	54	15	13	7	75	70	29	17	15
	M.Cloudy	28	30	16	14	6	35	43	26	19	15
SOUTH	M.Clear	41	73	81	62	24	12	32	46	41	19
	M.Cloudy	18	38	42	32	11	12	25	36	32	17
WEST	M.Clear	10	14	25	67	62	12	16	17	53	77
	M.Cloudy	9	15	20	33	21	12	17	19	39	44
M.Clear	(% hrs)	36	33	31	31	33	39	36	33	31	35
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	29	66	83	74	44	16	41	46	27	1
	M.Cloudy	18	42	57	51	29	10	24	27	17	1
NORTH	M.Clear	9	14	16	15	12	6	10	10	8	1
	M.Cloudy	8	15	17	16	11	4	9	10	7	1
EAST	M.Clear	63	67	26	15	12	43	37	10	8	1
	M.Cloudy	24	35	22	16	11	13	17	10	7	1
SOUTH	M.Clear	22	57	74	65	36	40	80	87	59	4
	M.Cloudy	11	31	45	40	20	12	30	33	21	1
WEST	M.Clear	9	14	16	53	71	6	10	23	47	6
	M.Cloudy	8	15	17	34	34	4	9	14	18	2
M.Clear	(% hrs)	42	42	37	37	40	33	33	31	32	37

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



Percent Calm = 11.87

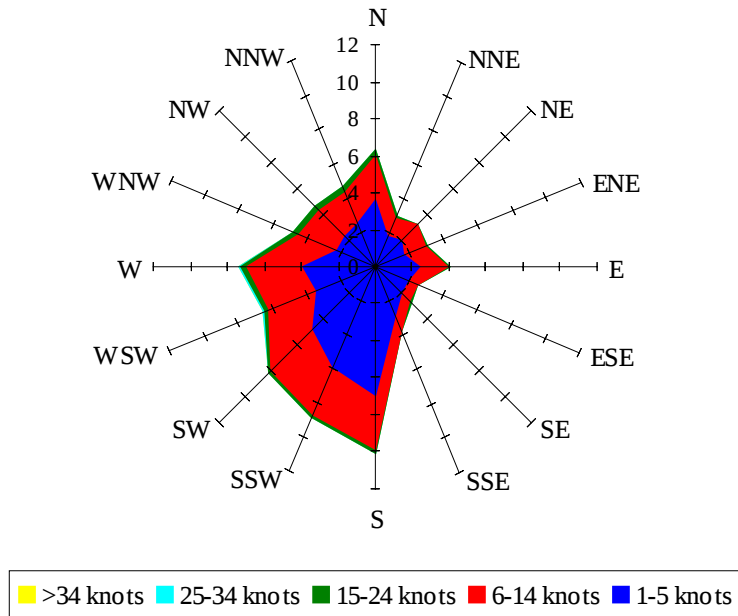
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 10.87

Wind Summary - June, July, and August

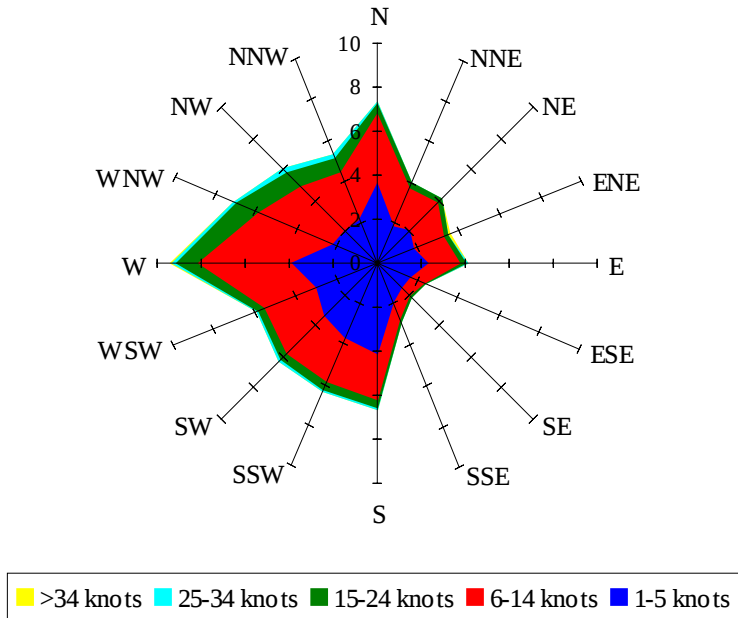
Labels of Percent Frequency on North Axis



Percent Calm = 16.62

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 17.06