

DOVER AFB	DE	
Latitude = 39.13 N		WMO No. 724088
Longitude = 75.47 W		Elevation = 30 feet
Period of Record = 1967 to 1996		Average Pressure = 29.97 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	77	112	9.8	W
0.4% Occurrence	92	76	110	8.6	W
1.0% Occurrence	89	75	107	8.5	W
2.0% Occurrence	86	74	106	8.1	SW
Mean Daily Range	16	-	-	-	-
97.5% Occurrence	22	19	9	9.1	WNW
99.0% Occurrence	17	14	7	8.8	NNW
99.6% Occurrence	13	11	6	10.1	NNW
Median of Extreme Lows	7	5	4	10.4	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	82	90	151	6.3	E
0.4% Occurrence	79	87	135	7.0	SSW
1.0% Occurrence	77	85	126	7.3	SW
2.0% Occurrence	76	84	122	6.9	SSW
	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	151	86	1.00	5.8	SE
0.4% Occurrence	137	83	0.90	6.3	SSW
1.0% Occurrence	132	82	0.88	5.5	SSW
2.0% Occurrence	126	80	0.85	5.3	SW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		24	686	612	1723

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	100	2.6 + 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 (#)
57.8	22	20	51

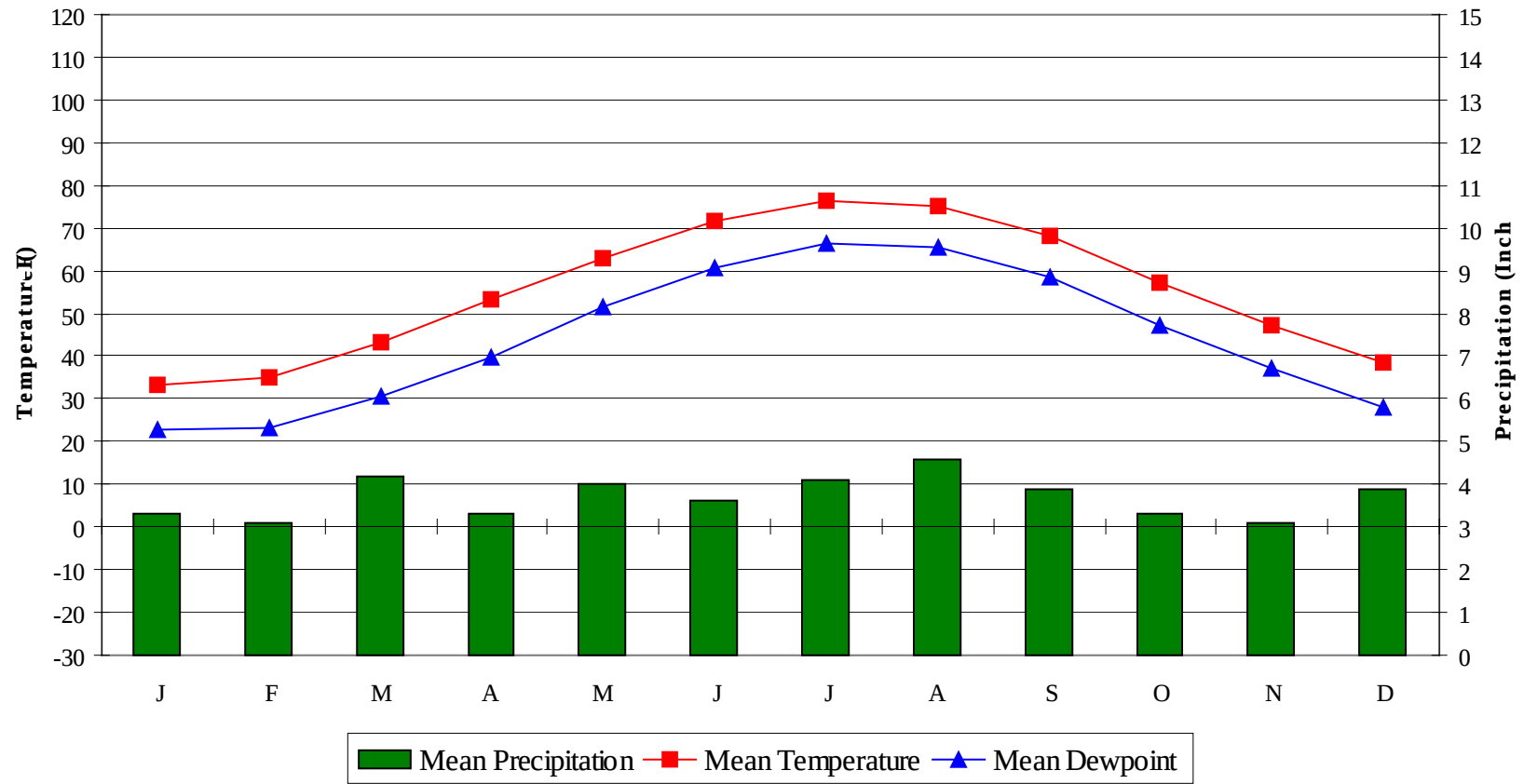
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

DOVER AFB

DE

WMO No. 724088

Average Annual Climate

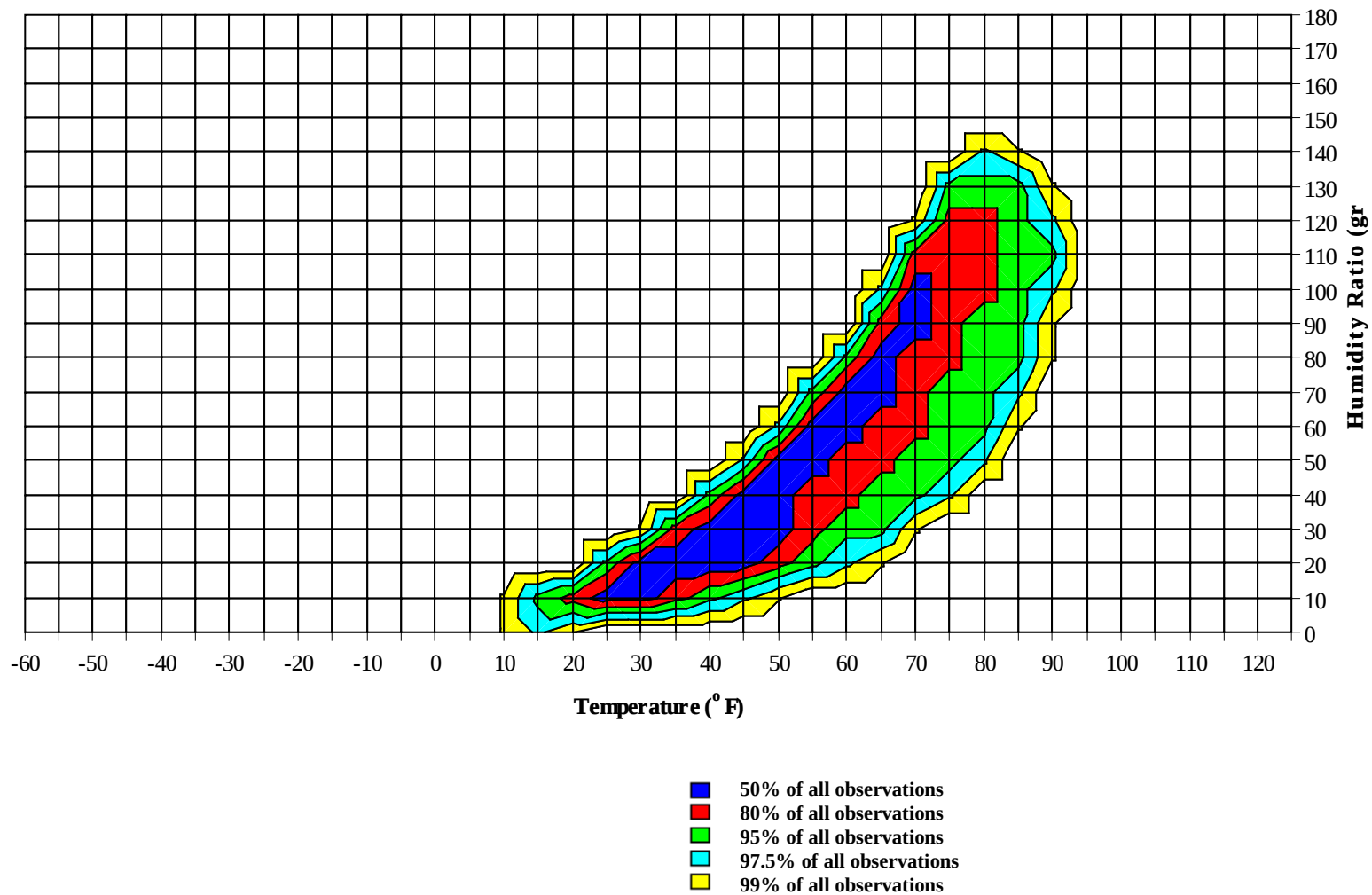


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WMO No. 724088

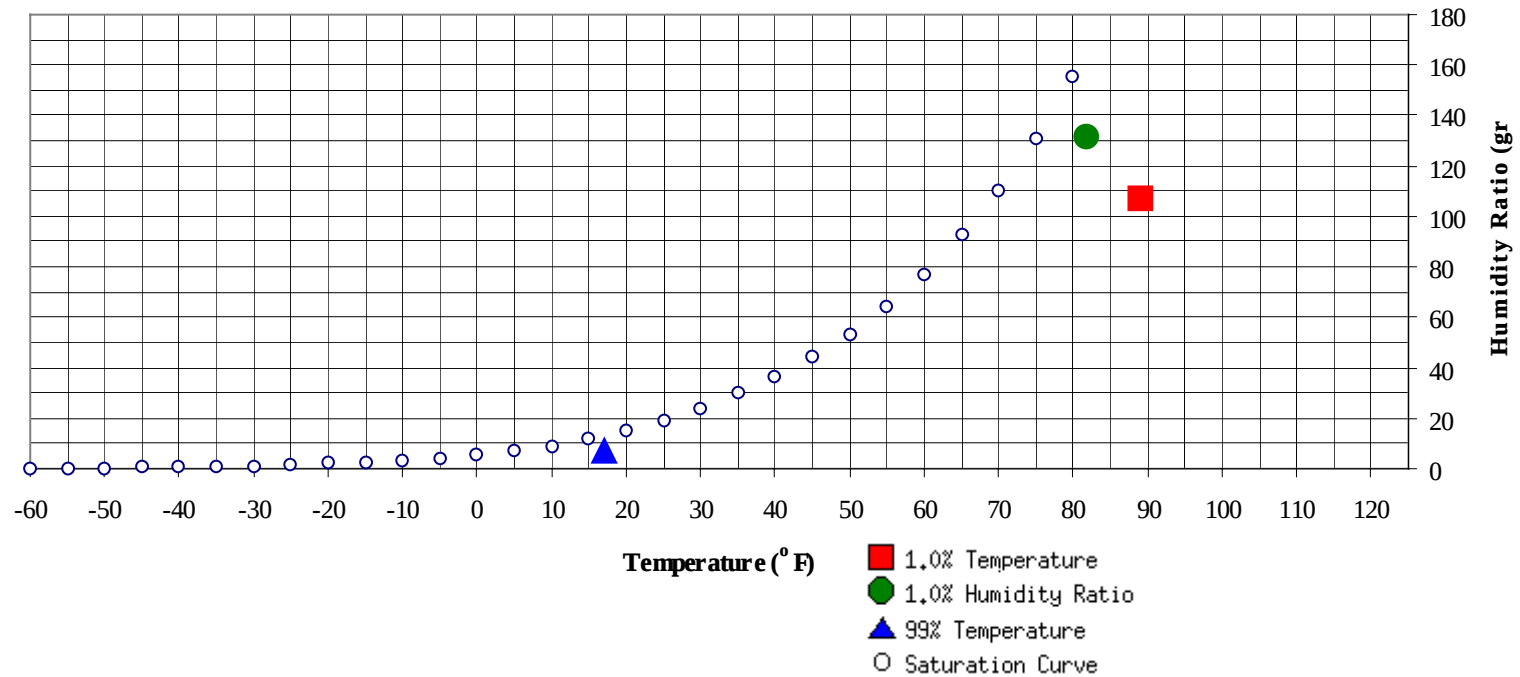
Long Term Psychrometric Summary



DOVER AFB

DE

WMO No. 724088

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	7	5.1		131.6	81.7	76.8	75	40.2

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	89	107.3	74.8	38.2

DOVER AFB

DE

WMO No. 724088

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															
80 / 84												1	0	1	65.1
75 / 79							0		0	61.0		3	1	3	61.9
70 / 74		0	0	1	59.8		1	0	1	59.2	0	5	2	7	59.2
65 / 69		2	0	2	59.1	0	4	1	5	56.0	2	9	4	15	56.8
60 / 64	1	3	2	7	56.6	2	5	3	9	54.2	6	14	9	29	53.7
55 / 59	3	6	5	14	52.7	3	9	6	18	49.9	8	24	14	47	49.6
50 / 54	6	13	7	25	47.3	6	17	10	32	45.7	17	40	27	84	45.4
45 / 49	12	25	14	51	42.5	13	24	17	53	42.1	29	47	44	120	41.6
40 / 44	22	43	31	96	37.9	21	39	29	89	37.6	47	46	59	153	37.5
35 / 39	40	49	48	137	33.2	36	43	49	128	33.0	57	33	47	138	33.2
30 / 34	54	44	55	154	28.8	46	38	46	129	28.4	46	16	26	88	28.5
25 / 29	39	30	39	108	23.8	41	26	36	103	23.7	24	6	10	40	23.7
20 / 24	34	18	27	80	19.1	31	13	19	63	19.1	9	2	3	14	19.3
15 / 19	21	9	12	41	14.7	17	5	7	29	14.7	2	0	1	4	14.8
10 / 14	11	4	4	19	10.2	6	1	2	9	10.2	1	0		1	11.3
5 / 9	3	1	2	6	5.4	2	0	0	3	5.9					
0 / 4	1	0	1	2	1.1	0		0	0	1.1					
-5 / -1	0	0	0	1	-3.4										
-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.

DOVER AFB

DE

WMO No. 724088

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							0		0	74.7		1	0	1	76.2
90 / 94		0		0	69.2		3	0	3	73.2		10	2	11	74.8
85 / 89		2	0	2	66.7	0	8	2	11	70.6	0	29	9	38	73.0
80 / 84		5	1	6	64.4	0	18	6	24	68.8	3	52	24	79	70.8
75 / 79	0	10	3	13	62.6	3	34	15	52	65.9	22	61	43	126	68.4
70 / 74	2	17	9	28	60.1	14	41	29	85	63.2	62	51	65	178	66.0
65 / 69	8	27	18	53	56.9	34	50	41	124	59.9	68	26	52	146	62.4
60 / 64	18	40	27	85	53.8	52	48	57	157	56.5	50	10	34	93	58.1
55 / 59	28	48	38	115	49.9	58	30	52	140	52.6	27	1	10	38	53.6
50 / 54	44	46	56	146	46.3	49	14	33	96	48.2	8		1	9	49.1
45 / 49	59	30	50	140	42.3	30	2	12	44	44.0	1			1	44.4
40 / 44	45	11	24	80	37.6	7		1	8	39.3					
35 / 39	26	3	10	40	33.3	0			0	35.4					
30 / 34	8	1	2	11	28.9										
25 / 29	1	0	0	2	24.1										
20 / 24	0			0	18.8										
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															

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WMO No. 724088

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	0	1	79.9										
95 / 99		5	1	6	78.4		2	0	2	77.0		0		0	73.2
90 / 94	0	24	5	29	76.3		14	3	17	76.5		5	0	5	75.6
85 / 89	1	53	18	72	74.5	0	48	12	60	75.0		13	2	15	73.8
80 / 84	14	74	44	133	72.5	8	73	34	115	72.7	1	35	10	46	71.2
75 / 79	61	59	70	190	70.7	48	70	70	188	70.5	13	52	30	94	69.2
70 / 74	90	26	75	192	68.1	91	30	77	198	67.8	44	64	54	162	66.1
65 / 69	54	5	28	87	63.7	62	9	39	110	63.7	55	45	60	161	61.9
60 / 64	24	1	6	31	59.1	28	1	11	41	58.7	56	19	51	126	57.8
55 / 59	3		0	3	54.7	10	0	2	12	54.2	40	5	23	68	53.3
50 / 54	0			0	46.0	1		0	2	48.5	22	1	8	31	48.7
45 / 49						0			0	44.5	9	0	2	11	44.4
40 / 44											1		0	1	40.6
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															

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WMO No. 724088

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	70.4										
80 / 84	0	6	0	6	68.8		0		0	64.1					
75 / 79	1	15	3	19	67.1		2	0	2	65.0					
70 / 74	5	33	11	49	64.2	1	8	2	10	63.5	0	1		1	64.3
65 / 69	17	49	29	95	61.0	5	16	7	28	60.5	1	4	2	7	61.5
60 / 64	37	57	47	141	56.8	12	26	16	54	57.1	4	7	5	16	57.1
55 / 59	46	48	56	150	52.0	19	39	26	84	52.1	7	14	8	28	52.4
50 / 54	48	26	49	123	47.2	33	42	40	115	47.4	12	25	15	52	47.6
45 / 49	45	11	34	90	42.9	38	47	42	126	42.2	22	42	31	95	42.8
40 / 44	31	3	15	48	38.5	44	36	51	132	37.7	34	54	47	135	37.9
35 / 39	14	1	4	19	34.3	42	18	33	93	33.1	50	44	52	146	33.1
30 / 34	3	0	1	4	29.5	31	4	16	52	28.9	50	29	44	123	28.5
25 / 29	0			0	25.9	13	1	5	20	24.7	35	17	27	78	23.8
20 / 24						3	0	1	3	20.1	20	8	14	42	19.3
15 / 19						0			0	17.3	9	2	3	14	15.0
10 / 14											3	1	1	5	10.2
5 / 9											1	0	1	1	5.0
0 / 4											0			0	1.8
-5 / -1															
-10 / -6															

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WMO No. 724088

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**Period of Record = 1967 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		
100 / 104		1	0	1	79.9
95 / 99		9	1	10	77.7
90 / 94	0	56	10	66	75.9
85 / 89	2	154	44	199	74.0
80 / 84	27	264	120	410	71.7
75 / 79	147	307	233	687	69.3
70 / 74	309	277	324	910	66.2
65 / 69	305	245	283	833	61.5
60 / 64	289	232	268	789	56.8
55 / 59	252	224	240	716	51.9
50 / 54	246	223	246	715	47.0
45 / 49	256	229	245	730	42.4
40 / 44	252	232	257	741	37.8
35 / 39	266	191	244	701	33.2
30 / 34	239	132	189	561	28.6
25 / 29	155	81	117	353	23.8
20 / 24	98	41	64	203	19.2
15 / 19	49	17	22	88	14.7
10 / 14	20	6	8	33	10.2
5 / 9	6	1	3	10	5.5
0 / 4	2	0	1	3	1.2
-5 / -1	0	0	0	1	-3.4
-10 / -6	0			0	-6.0

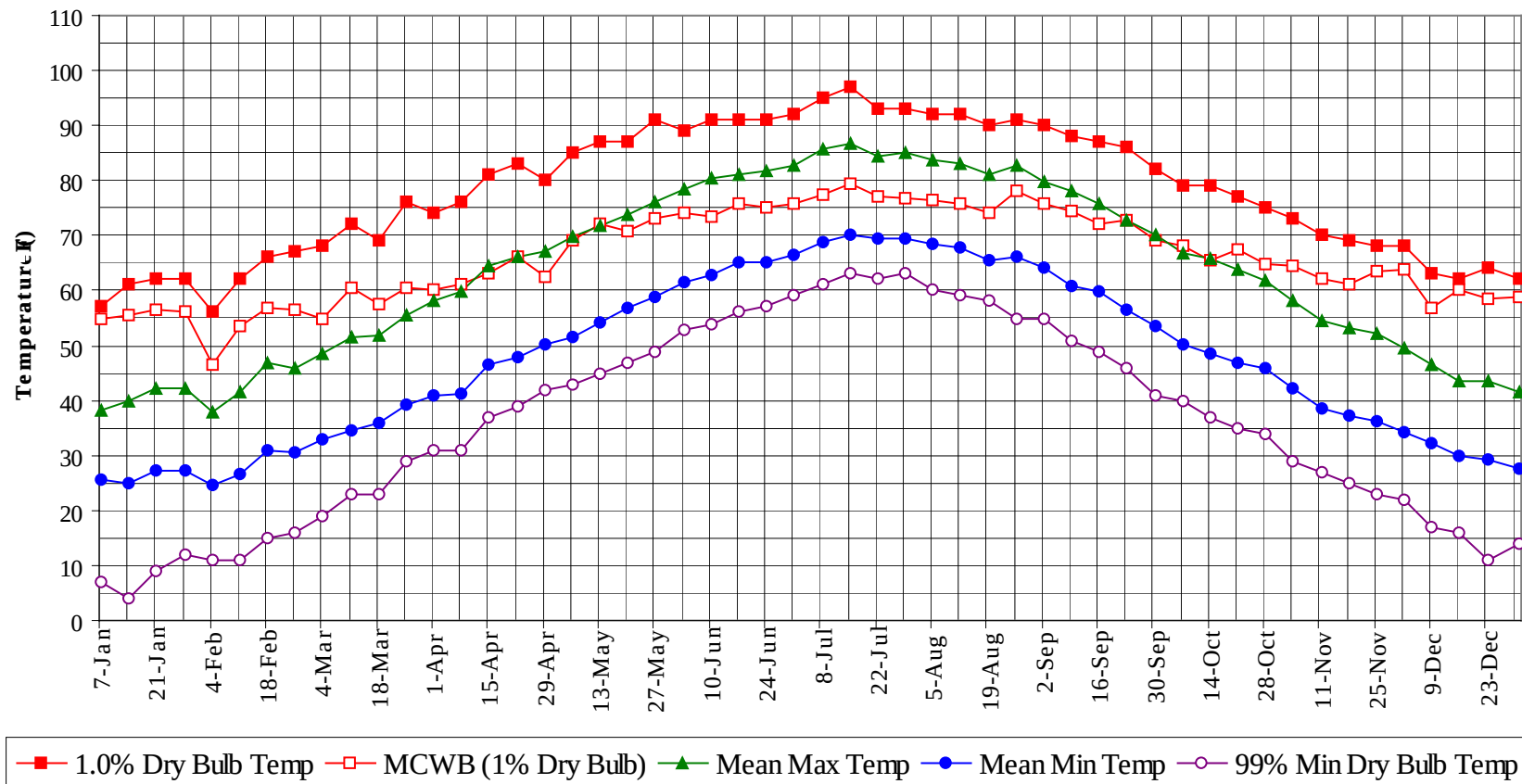
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

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WMO No. 724088

Annual Summary of Temperatures

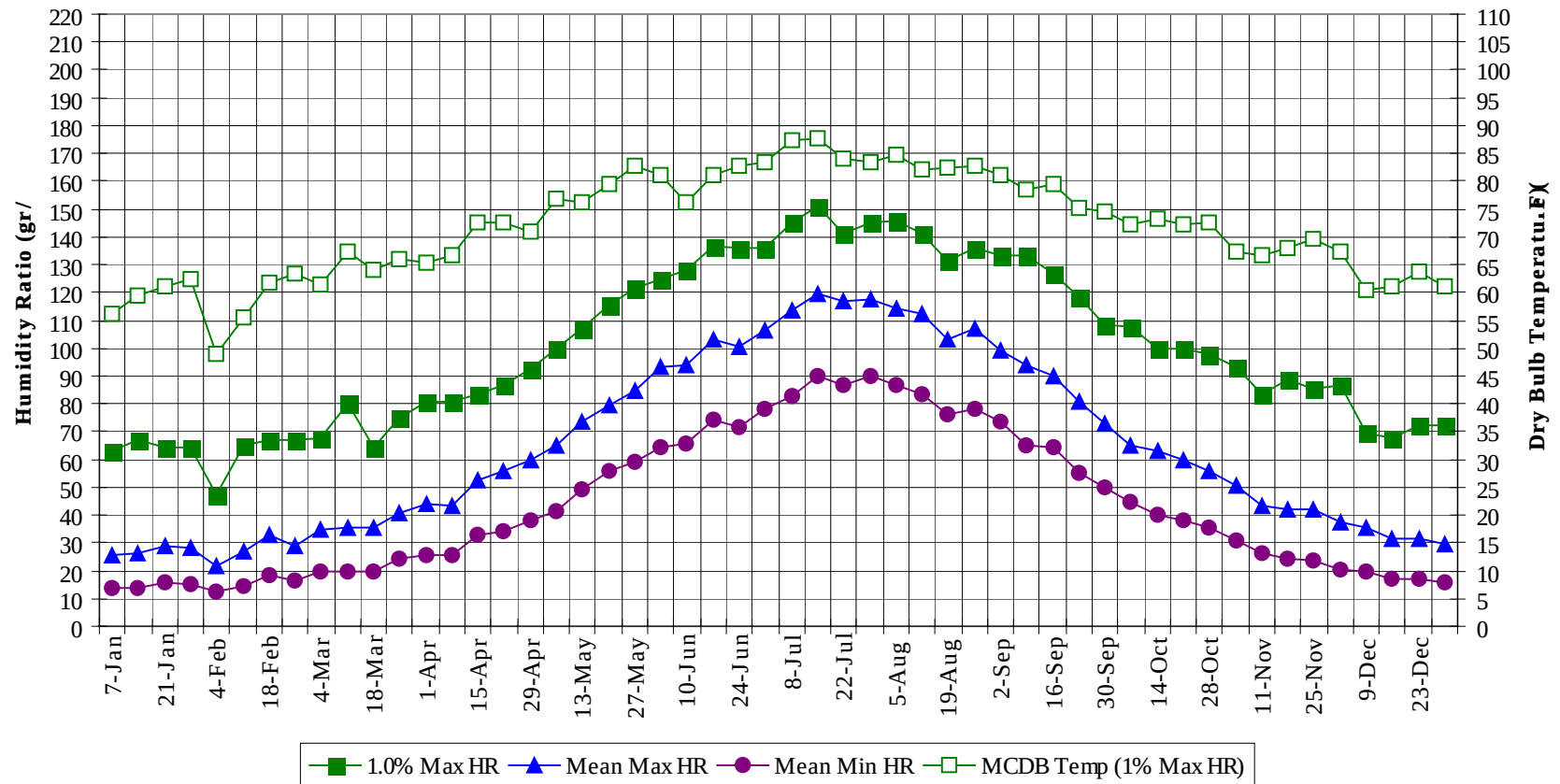


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WMO No. 724088

Long Term Humidity and Dry Bulb Temperature Summary



DOVER AFB**DE****WMO No. 724088****Long Term Dry Bulb Temperature and Humidity Summary**

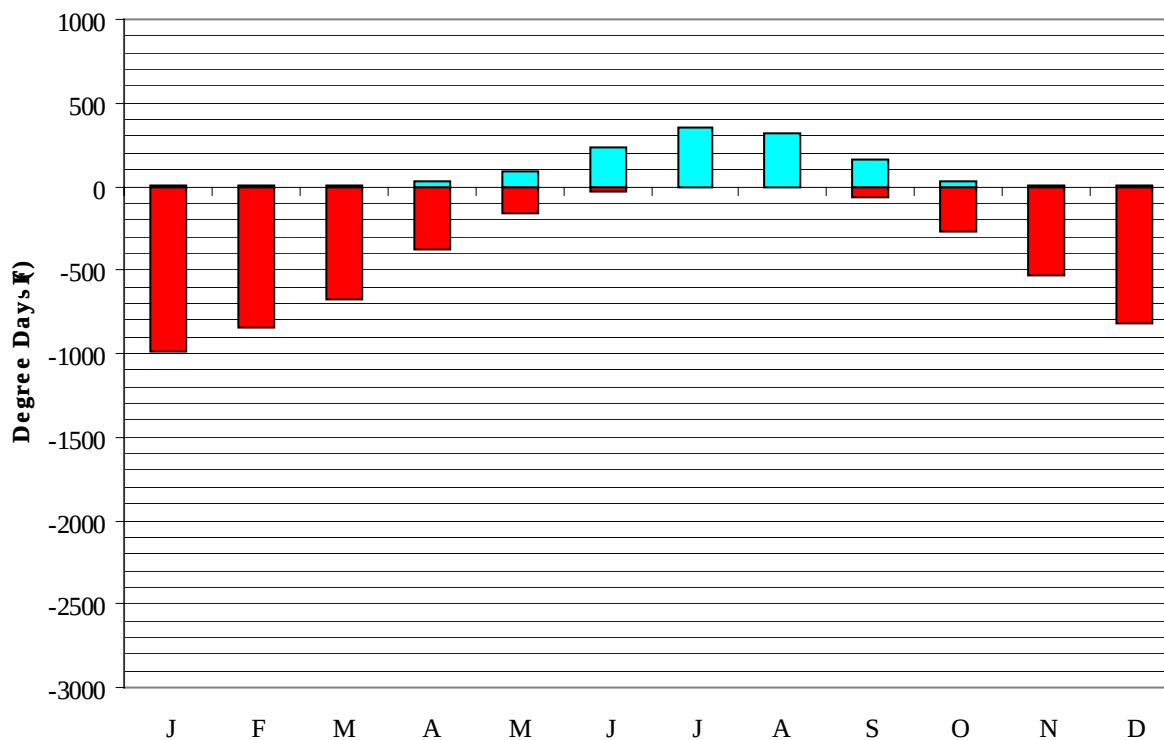
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	57.0	54.9	38.4	25.5	7.0	63.0	56.3	25.9	13.7
14-Jan	61.0	55.4	39.8	25.1	4.0	67.2	59.4	26.3	13.7
21-Jan	62.0	56.6	42.3	27.4	9.0	64.4	61.0	29.1	15.6
28-Jan	62.0	56.1	42.3	27.3	12.0	64.4	62.4	28.2	15.1
4-Feb	56.0	46.5	38.0	24.4	11.0	47.6	48.8	21.9	12.2
11-Feb	62.0	53.4	41.6	26.6	11.0	65.1	55.5	26.7	14.2
18-Feb	66.0	56.9	46.9	31.1	15.0	67.2	61.7	33.0	18.6
25-Feb	67.0	56.5	45.9	30.6	16.0	67.2	63.4	28.8	16.2
4-Mar	68.0	55.0	48.5	32.8	19.0	67.9	61.5	34.8	19.5
11-Mar	72.0	60.3	51.6	34.6	23.0	79.8	67.4	35.8	19.8
18-Mar	69.0	57.6	52.0	35.8	23.0	64.4	64.2	35.5	19.9
25-Mar	76.0	60.5	55.5	39.4	29.0	74.9	65.8	40.8	24.2
1-Apr	74.0	60.3	58.3	41.0	31.0	80.5	65.3	43.8	25.3
8-Apr	76.0	61.0	59.8	41.3	31.0	80.5	66.7	43.6	25.8
15-Apr	81.0	63.2	64.5	46.4	37.0	83.3	72.5	52.4	32.8
22-Apr	83.0	66.1	66.0	48.0	39.0	86.8	72.7	55.6	34.2
29-Apr	80.0	62.5	67.2	50.0	42.0	92.4	71.0	59.5	38.4
6-May	85.0	69.0	69.7	51.4	43.0	100.1	76.9	64.7	41.7
13-May	87.0	72.1	71.7	54.3	45.0	107.1	76.1	73.7	49.4
20-May	87.0	70.7	73.7	56.8	47.0	115.5	79.5	79.2	55.7
27-May	91.0	73.0	76.1	59.0	49.0	121.8	82.6	84.7	58.9
3-Jun	89.0	74.2	78.6	61.3	53.0	124.6	81.1	93.5	64.5
10-Jun	91.0	73.3	80.3	62.7	54.0	128.1	76.2	93.7	65.9
17-Jun	91.0	75.7	80.9	65.1	56.0	136.5	81.1	103.1	74.4
24-Jun	91.0	75.3	81.9	65.0	57.0	135.8	82.6	100.5	71.7
1-Jul	92.0	75.6	82.7	66.5	59.0	135.8	83.3	106.2	78.4
8-Jul	95.0	77.4	85.6	68.9	61.0	144.9	87.3	113.3	82.7
15-Jul	97.0	79.3	86.8	70.2	63.0	151.2	87.8	119.6	89.7
22-Jul	93.0	77.1	84.4	69.3	62.0	141.4	84.1	117.2	86.9
29-Jul	93.0	76.8	85.1	69.5	63.0	144.9	83.4	117.9	90.2
5-Aug	92.0	76.4	83.8	68.5	60.0	145.6	84.7	114.5	86.5
12-Aug	92.0	75.7	83.1	67.9	59.0	141.4	81.9	112.3	83.7
19-Aug	90.0	74.0	81.2	65.3	58.0	131.6	82.4	103.2	75.9
26-Aug	91.0	78.1	82.9	66.0	55.0	135.8	82.7	106.9	78.3
2-Sep	90.0	75.9	79.8	64.1	55.0	133.0	81.1	99.4	73.5
9-Sep	88.0	74.3	78.3	60.8	51.0	133.0	78.6	94.0	64.9
16-Sep	87.0	72.2	75.7	59.7	49.0	126.7	79.3	89.7	64.3
23-Sep	86.0	72.8	72.9	56.4	46.0	118.3	75.1	80.5	55.1
30-Sep	82.0	69.2	70.2	53.4	41.0	108.5	74.6	73.1	49.9
7-Oct	79.0	68.3	66.9	50.1	40.0	107.8	72.3	64.8	44.4
14-Oct	79.0	65.4	66.0	48.5	37.0	100.1	73.2	62.8	39.8
21-Oct	77.0	67.4	63.8	46.8	35.0	100.1	72.2	59.8	38.4
28-Oct	75.0	64.8	61.9	45.8	34.0	98.0	72.5	55.8	35.7
4-Nov	73.0	64.4	58.0	42.1	29.0	93.1	67.2	50.4	30.8
11-Nov	70.0	62.0	54.4	38.7	27.0	83.3	66.6	43.7	26.3
18-Nov	69.0	61.3	53.2	37.1	25.0	88.9	67.9	41.9	24.2
25-Nov	68.0	63.6	52.1	36.1	23.0	85.4	69.6	41.7	23.5
2-Dec	68.0	63.9	49.5	34.1	22.0	86.8	67.4	37.4	20.3
9-Dec	63.0	56.7	46.7	32.2	17.0	69.3	60.5	35.5	19.6
16-Dec	62.0	60.0	43.5	29.9	16.0	67.9	61.1	31.3	16.9
23-Dec	64.0	58.5	43.4	29.1	11.0	72.1	63.6	31.6	16.9
31-Dec	62.0	58.9	41.5	27.7	14.0	72.1	60.9	29.7	15.5

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WMO No. 724088

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



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

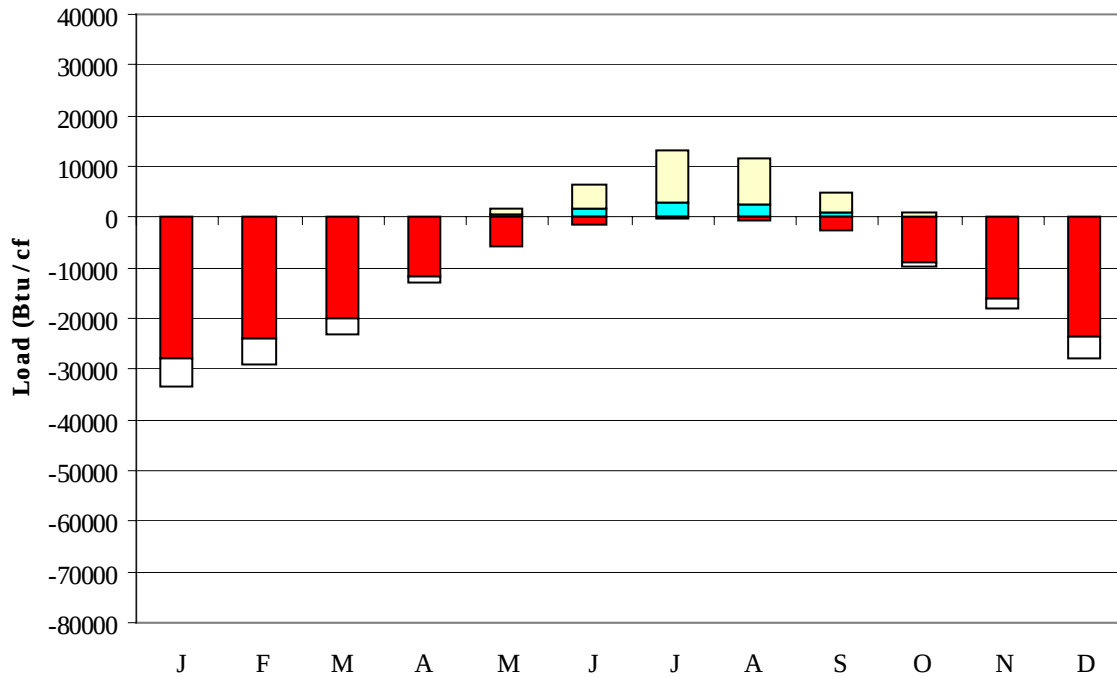
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	983
FEB	1	846
MAR	5	681
APR	25	373
MAY	89	157
JUN	230	27
JUL	359	4
AUG	317	9
SEP	157	61
OCT	34	275
NOV	6	535
DEC	1	822
ANN	1224	4773

DOVER AFB

DE

WMO No. 724088

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	-27893	1	-5591
FEB	0	-24105	3	-4915
MAR	12	-19992	9	-3352
APR	96	-11746	68	-1316
MAY	462	-5687	1168	-106
JUN	1526	-1326	5028	-2
JUL	2947	-296	10271	0
AUG	2318	-520	9373	0
SEP	786	-2559	4054	-7
OCT	85	-9123	715	-436
NOV	5	-16111	124	-1953
DEC	0	-23705	21	-4122
ANN	8237	-143063	30835	-21800

Average Annual Solar Radiation – Nearest Available Site

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

City: WILMINGTON
 State: DE
 WBAN No: 13781
 Lat(N): 39.67
 Long(W): 75.6
 Elev(ft): 79

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.524
 Vert Gap: 0.319

AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day), Percentage Uncertainty = 11		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Global	640	900	1230	1550	1790	1980	1920	1730	1390	1040	690	550	1290
	Std Dev	44	76	92	119	134	115	114	76	95	77	54	40	34
	Minimum	550	750	1070	1320	1600	1750	1670	1590	1240	900	550	470	1220
	Maximum	720	1090	1400	1810	2090	2180	2140	1910	1570	1200	820	620	1340
	Diffuse	320	420	550	710	840	880	870	770	630	450	340	280	590
Clear Day	Global	910	1260	1740	2210	2500	2600	2510	2240	1820	1340	950	800	1740
NORTH	Global	200	270	350	440	550	610	580	480	380	290	210	180	380
	Diffuse	200	270	350	430	500	540	520	470	380	290	210	180	360
Clear Day	Global	180	240	320	430	580	680	620	480	370	280	200	160	380
EAST	Global	440	590	760	920	990	1060	1050	970	820	660	460	380	760
	Diffuse	240	330	420	530	600	640	630	570	480	360	260	220	440
Clear Day	Global	700	900	1140	1340	1430	1440	1400	1300	1140	900	700	620	1080
SOUTH	Global	1020	1130	1100	960	830	790	820	950	1070	1170	1010	930	980
	Diffuse	350	420	490	540	570	590	590	580	530	450	360	320	480
Clear Day	Global	1920	1970	1790	1420	1080	930	980	1230	1570	1800	1830	1830	1530
WEST	Global	440	590	760	900	990	1070	1060	980	830	660	460	380	760
	Diffuse	250	330	430	530	610	650	640	580	480	360	260	220	450
Clear Day	Global	700	900	1140	1340	1430	1440	1400	1300	1140	900	700	620	1080

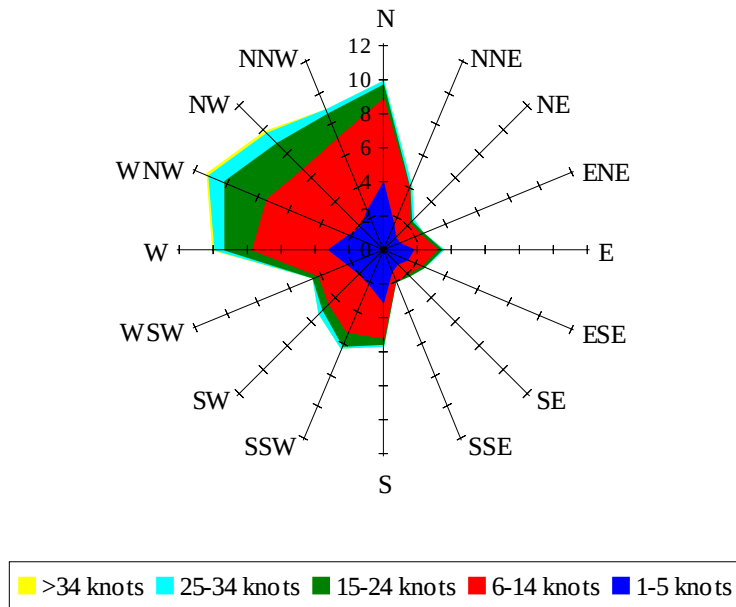
Average Annual Solar Heat and Illumination – Nearest Available Site

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

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 11		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	420	620	870	1120	1290	1440	1400	1250	990	720	460	350	910
NORTH	Unshaded	140	180	240	300	360	400	380	330	270	200	150	120	260
	Shaded	120	160	210	270	320	360	340	290	240	180	130	110	230
EAST	Unshaded	300	410	540	650	700	750	740	690	580	460	320	260	540
	Shaded	270	370	470	560	600	640	630	590	510	410	290	240	460
SOUTH	Unshaded	770	830	760	630	520	480	500	610	720	840	760	700	680
	Shaded	750	760	600	420	350	360	360	390	530	740	730	680	560
WEST	Unshaded	310	410	540	640	700	760	750	700	580	470	320	260	540
	Shaded	280	370	470	550	600	640	640	600	510	410	280	230	460

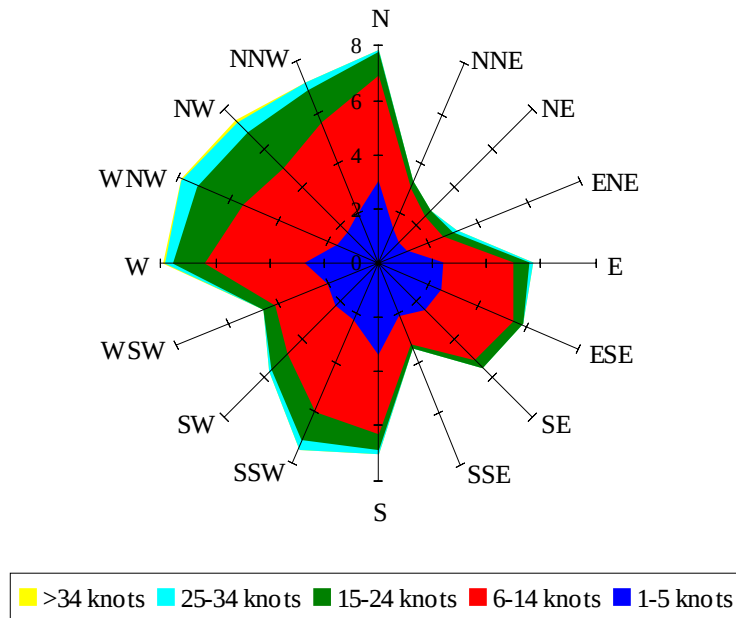
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 11		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	40	72	80	64	26	47	83	101	94	67
	M.Cloudy	23	44	49	40	16	29	55	73	68	46
NORTH	M.Clear	10	14	15	13	8	18	17	17	17	15
	M.Cloudy	9	15	16	14	7	13	18	20	19	16
EAST	M.Clear	74	56	15	13	8	75	72	31	17	15
	M.Cloudy	26	30	16	14	7	33	43	28	19	16
SOUTH	M.Clear	40	73	82	65	26	12	32	47	42	21
	M.Cloudy	17	36	41	33	12	11	25	36	33	18
WEST	M.Clear	10	14	23	66	63	12	17	17	52	77
	M.Cloudy	9	15	19	34	23	11	18	20	38	44
M.Clear	(% hrs)	35	34	31	30	35	39	39	34	37	37
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	27	66	83	76	46	14	40	45	28	2
	M.Cloudy	16	40	55	51	29	9	23	26	17	2
NORTH	M.Clear	9	14	16	16	12	5	10	10	8	1
	M.Cloudy	7	15	18	17	11	4	9	10	7	1
EAST	M.Clear	60	68	28	16	12	40	38	10	8	1
	M.Cloudy	20	32	23	17	11	11	17	10	7	1
SOUTH	M.Clear	20	56	74	67	37	37	78	86	60	6
	M.Cloudy	10	28	43	39	19	10	28	31	20	2
WEST	M.Clear	9	14	16	52	71	5	10	21	46	8
	M.Cloudy	7	15	18	33	31	4	9	13	17	2
M.Clear	(% hrs)	42	44	41	38	41	34	34	31	31	34

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



Percent Calm = 9.72

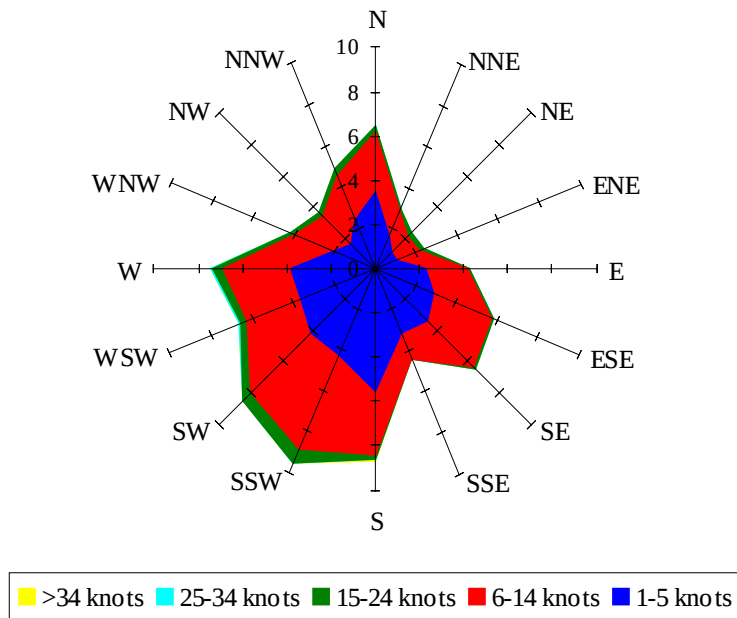
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 8.32

Wind Summary - June, July, and August

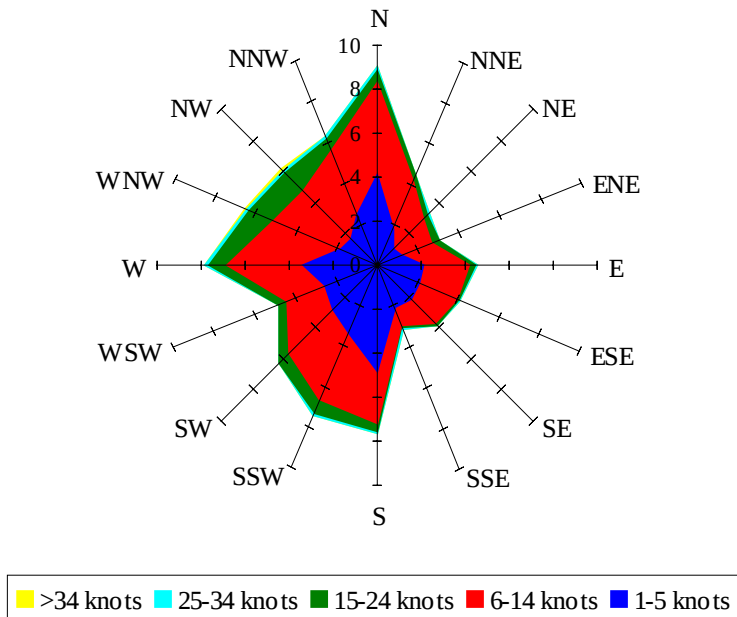
Labels of Percent Frequency on North Axis



Percent Calm = 12.11

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 11.76