

QUANTICO VA

Latitude = 38.50 N

Longitude = 77.30 W

Period of Record = 1973 to 1996

WMO No. 724035

Elevation = 13 feet

Average Pressure = 30.00 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	97	78	114	6.0	S
0.4% Occurrence	93	77	115	5.5	S
1.0% Occurrence	91	76	113	5.6	S
2.0% Occurrence	89	75	109	5.5	S
Mean Daily Range	17	-	-	-	-
97.5% Occurrence	25	22	11	5.8	NW
99.0% Occurrence	20	17	8	6.1	NW
99.6% Occurrence	16	14	7	5.9	NW
Median of Extreme Lows	8	6	4	5.6	NW
	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	91	154	5.9	S
0.4% Occurrence	80	90	136	5.5	S
1.0% Occurrence	78	88	127	5.3	S
2.0% Occurrence	77	86	123	5.1	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	157	90	1.04	5.2	S
0.4% Occurrence	140	86	0.94	4.8	S
1.0% Occurrence	132	85	0.88	4.8	S
2.0% Occurrence	127	84	0.85	4.7	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		49	1008	771	1978

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	3.3	90	2.2 + 0.9
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 (#)
60.4	22	20	44

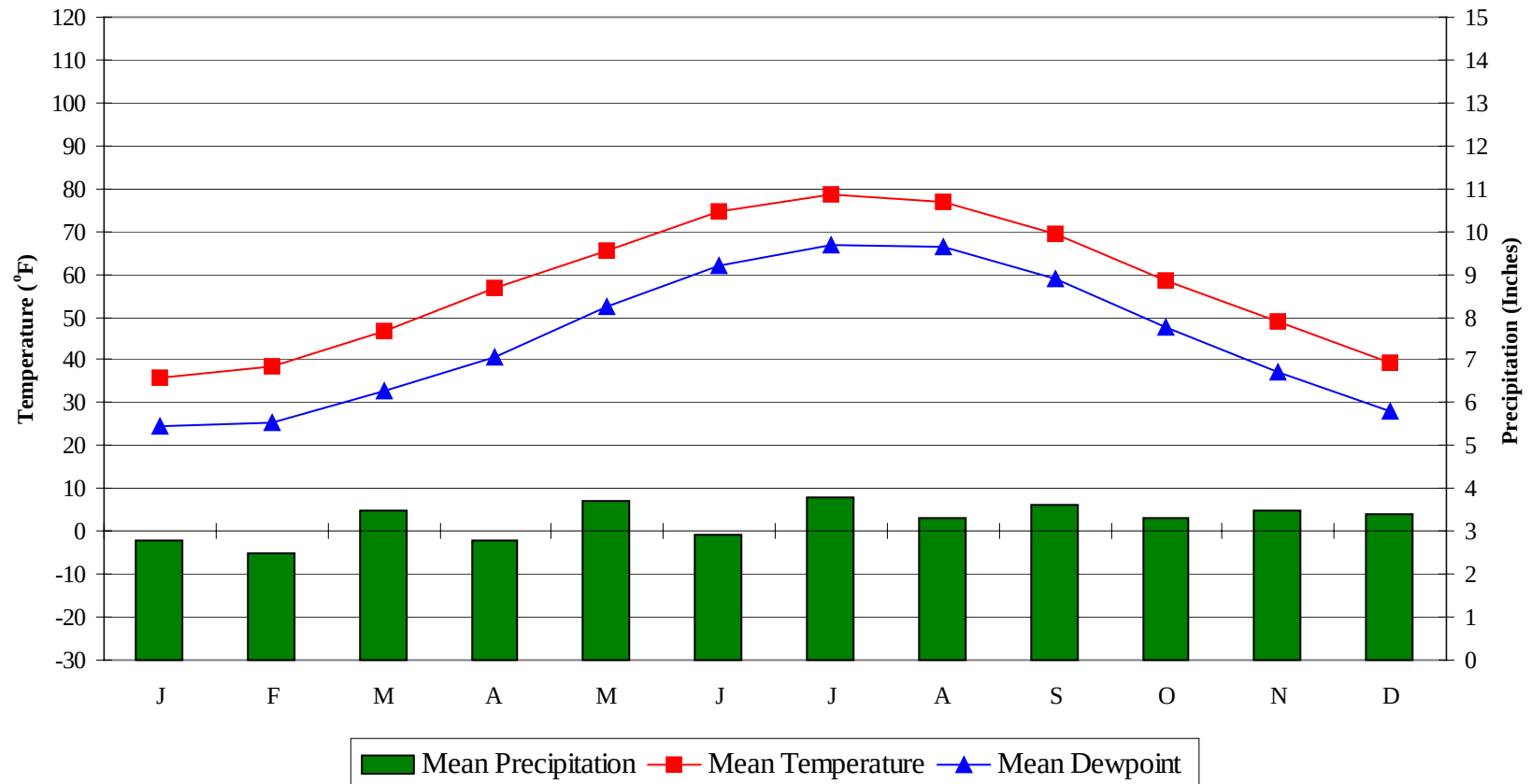
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

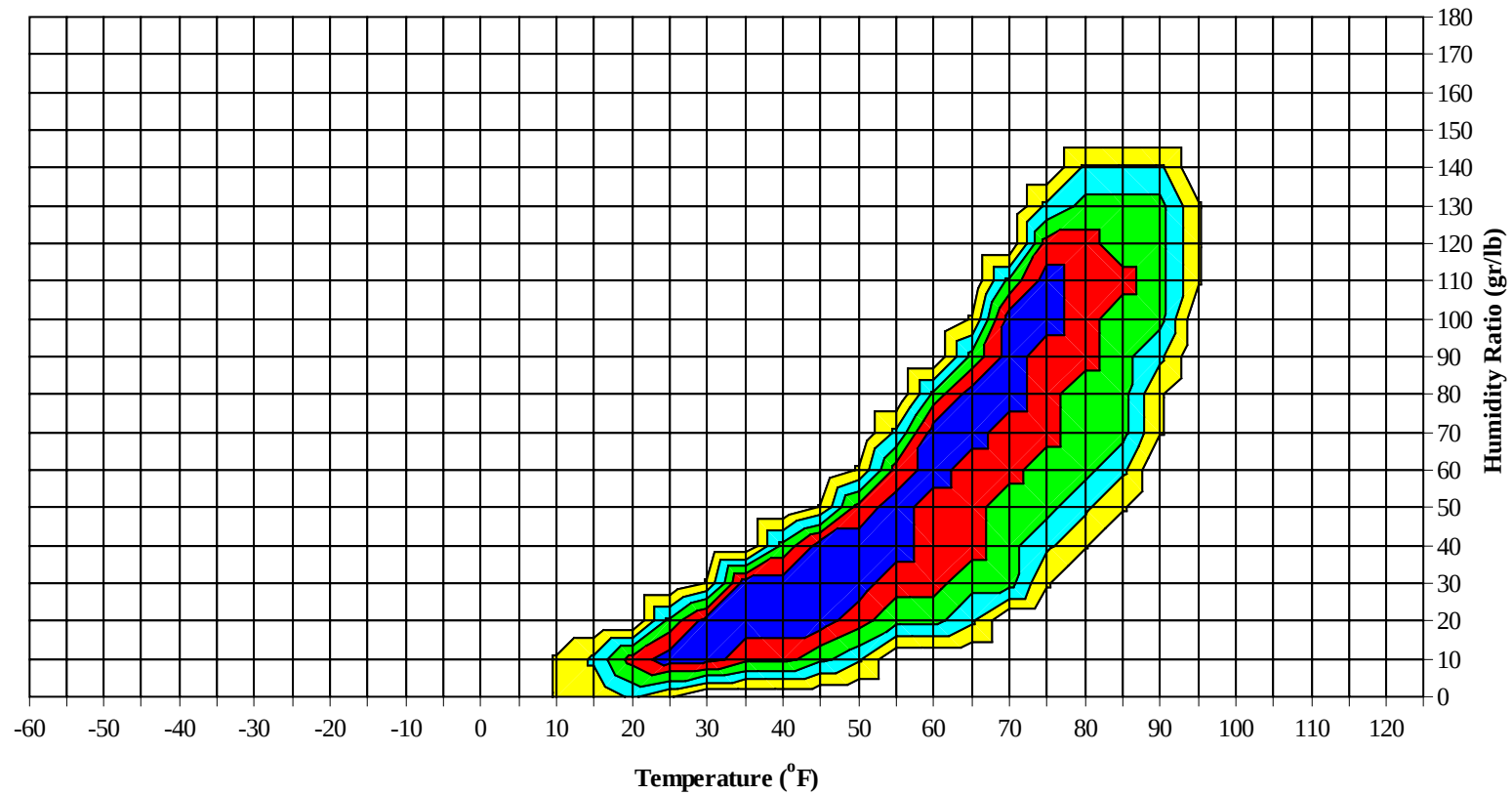


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Long Term Psychrometric Summary



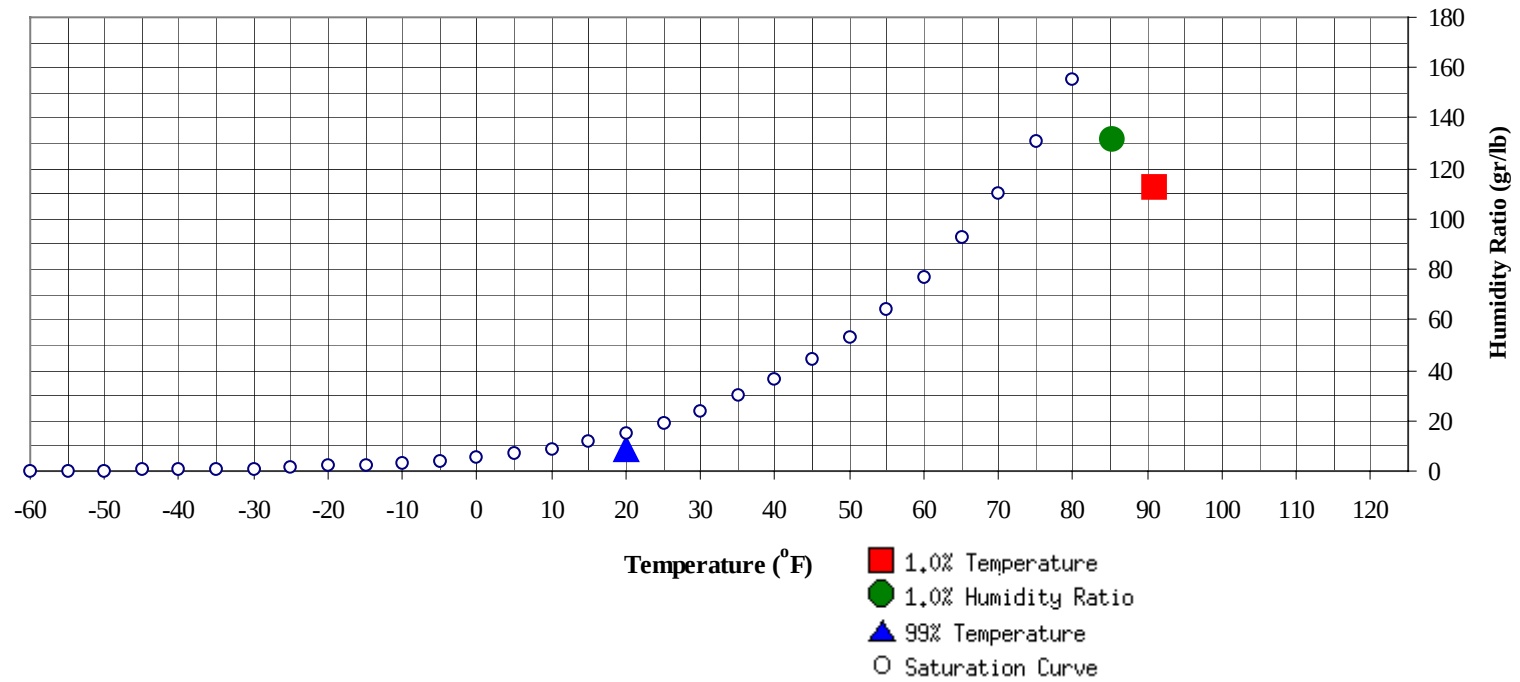
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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Psychrometric Summary of Peak Design Values



99% Dry Bulb	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
	20	8.7	6.1		131.6	85.2	77.8	75	41.1

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	91	112.5	76.3	39.5

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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		
100 / 104															
95 / 99															
90 / 94															
85 / 89												0	0	0	64.6
80 / 84						0	0	0	0	58.3		2	1	3	63.2
75 / 79			0	0	62.0	0	1	0	1	60.0	0	4	2	7	60.7
70 / 74		1	0	1	61.2	0	3	1	5	57.6	1	7	5	12	58.6
65 / 69	0	1	0	1	57.5	1	4	2	8	56.3	3	15	9	27	55.4
60 / 64	1	3	1	6	53.1	3	7	7	17	52.9	6	21	16	44	52.2
55 / 59	2	8	8	18	49.8	2	14	12	28	48.8	11	34	28	73	48.9
50 / 54	8	16	12	36	45.9	9	20	18	47	45.3	26	47	43	116	45.7
45 / 49	15	32	25	72	41.6	17	35	29	81	41.2	40	44	48	132	41.6
40 / 44	26	47	45	118	37.2	24	37	37	98	37.0	45	38	43	127	37.1
35 / 39	48	53	55	157	33.4	38	44	43	126	32.7	51	22	30	104	32.8
30 / 34	56	42	49	146	28.9	53	32	40	126	28.3	38	9	16	62	28.2
25 / 29	40	25	31	95	24.0	41	17	23	82	23.6	18	4	6	28	23.6
20 / 24	26	13	14	52	19.5	22	8	8	37	18.9	5	1	1	7	19.1
15 / 19	16	5	6	27	15.0	10	2	2	14	14.6	2	0	0	2	14.3
10 / 14	6	2	1	9	10.2	2	0	1	3	10.1	0	0	0	0	11.2
5 / 9	2	1	1	4	5.5	1	0	0	1	5.7		0	0	0	5.3
0 / 4	1	0	0	1	0.7	0	0		0	0.3					
-5 / -1	1		0	1	-4.2	0	0		0	-3.7					
-10 / -6						0			0	-6.7					

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 = 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		
100 / 104															
95 / 99		0		0	66.0		0	0	0	77.9	0	2	0	2	77.3
90 / 94		1	0	1	67.2		3	1	4	74.8	0	16	5	21	75.3
85 / 89		4	2	7	66.2	0	12	5	17	71.3	0	41	17	58	73.2
80 / 84		8	4	12	64.5	1	26	12	40	68.5	3	66	38	106	70.7
75 / 79	0	16	9	24	61.9	4	42	27	73	65.8	33	59	63	155	68.3
70 / 74	3	23	18	43	59.3	19	51	40	109	62.5	81	35	63	179	66.2
65 / 69	11	39	27	77	56.0	42	50	53	145	59.3	59	16	34	109	62.1
60 / 64	26	44	39	110	53.3	60	35	49	143	56.0	36	5	15	56	57.6
55 / 59	32	42	42	116	49.5	52	21	35	109	52.2	22	1	5	27	53.0
50 / 54	53	36	44	132	45.9	41	7	19	67	47.6	5		1	6	47.7
45 / 49	47	20	34	101	41.5	22	1	6	28	43.3	1			1	44.3
40 / 44	36	6	14	57	37.0	6		1	7	39.4					
35 / 39	23	2	5	30	33.1	1			1	36.2					
30 / 34	9	0	1	10	28.8										
25 / 29	1			1	24.5										
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 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		
100 / 104		1	0	1	80.9		0		0	80.9					
95 / 99		7	2	9	78.2		4	1	5	77.3		1		1	77.2
90 / 94		38	13	51	77.0		26	8	34	76.9		6	1	7	76.6
85 / 89	1	69	33	103	74.7	0	59	24	83	74.8		20	4	25	74.0
80 / 84	13	73	61	147	72.3	8	73	53	134	72.4	1	39	18	58	71.2
75 / 79	80	41	75	196	70.6	53	57	71	181	70.4	11	57	39	107	68.3
70 / 74	99	16	49	164	67.7	103	24	61	188	67.8	51	58	59	169	65.5
65 / 69	42	3	13	57	63.5	56	6	23	86	63.5	62	38	49	148	61.8
60 / 64	11	0	2	14	58.7	21	0	4	25	59.0	47	16	37	100	57.6
55 / 59	2			2	53.4	6	0	1	7	53.6	37	4	21	62	53.3
50 / 54	0			0	46.0	1		0	1	48.9	22	1	8	31	48.7
45 / 49											8	0	2	11	44.5
40 / 44											1		0	1	40.8
35 / 39											0			0	37.0
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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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		
100 / 104															
95 / 99															
90 / 94		0		0	74.5										
85 / 89		2	0	2	70.4										
80 / 84	0	7	2	9	69.1		1		1	66.4					
75 / 79	1	22	6	28	66.7		4	1	5	64.9		1	0	1	61.2
70 / 74	7	36	20	64	63.5	1	10	5	16	61.8		2	1	3	62.0
65 / 69	17	48	40	104	60.0	3	19	9	32	58.6	1	4	2	8	57.6
60 / 64	34	56	46	137	55.9	14	32	25	71	55.1	3	7	3	13	55.0
55 / 59	42	43	49	134	51.6	25	37	33	95	50.9	6	13	8	28	50.3
50 / 54	48	23	43	114	47.4	29	43	38	110	45.9	10	27	17	54	46.0
45 / 49	47	9	28	84	43.4	37	48	43	128	41.5	22	47	34	103	41.9
40 / 44	33	2	11	46	39.1	42	28	38	108	37.3	33	54	51	139	37.5
35 / 39	15	0	2	17	34.9	38	13	31	82	33.4	52	46	54	151	33.1
30 / 34	4	0	0	4	30.4	38	3	15	56	29.3	55	27	42	124	28.8
25 / 29	0			0	27.0	11	1	2	14	25.4	39	14	22	75	24.1
20 / 24						2	0	0	2	20.4	16	5	9	30	19.6
15 / 19						0			0	16.8	6	2	2	10	15.3
10 / 14											3	0	1	4	10.6
5 / 9											1			1	6.5
0 / 4															
-5 / -1															
-10 / -6															

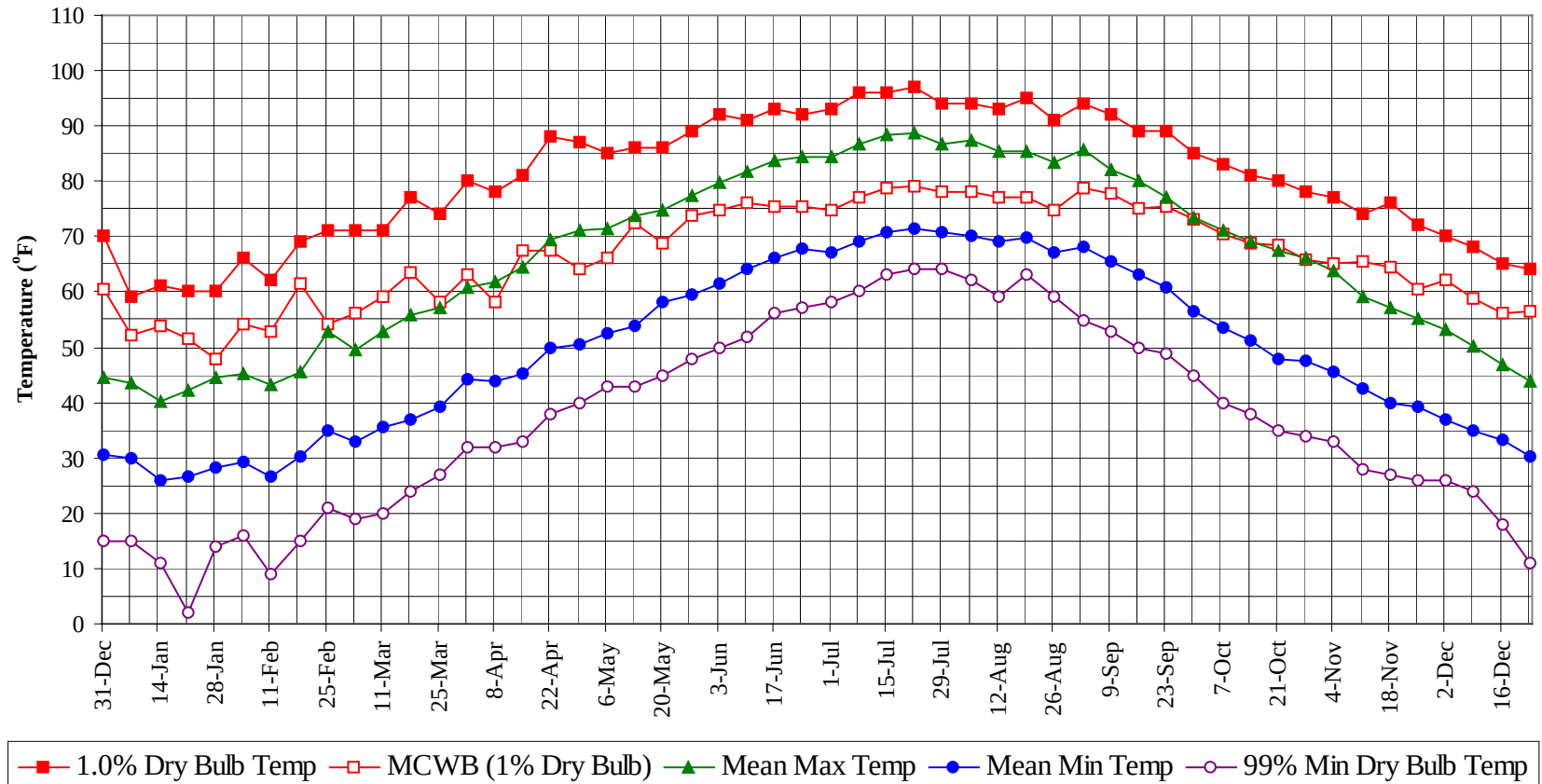
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

QUANTICO VA WMO No. 724035
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1973 to 1996

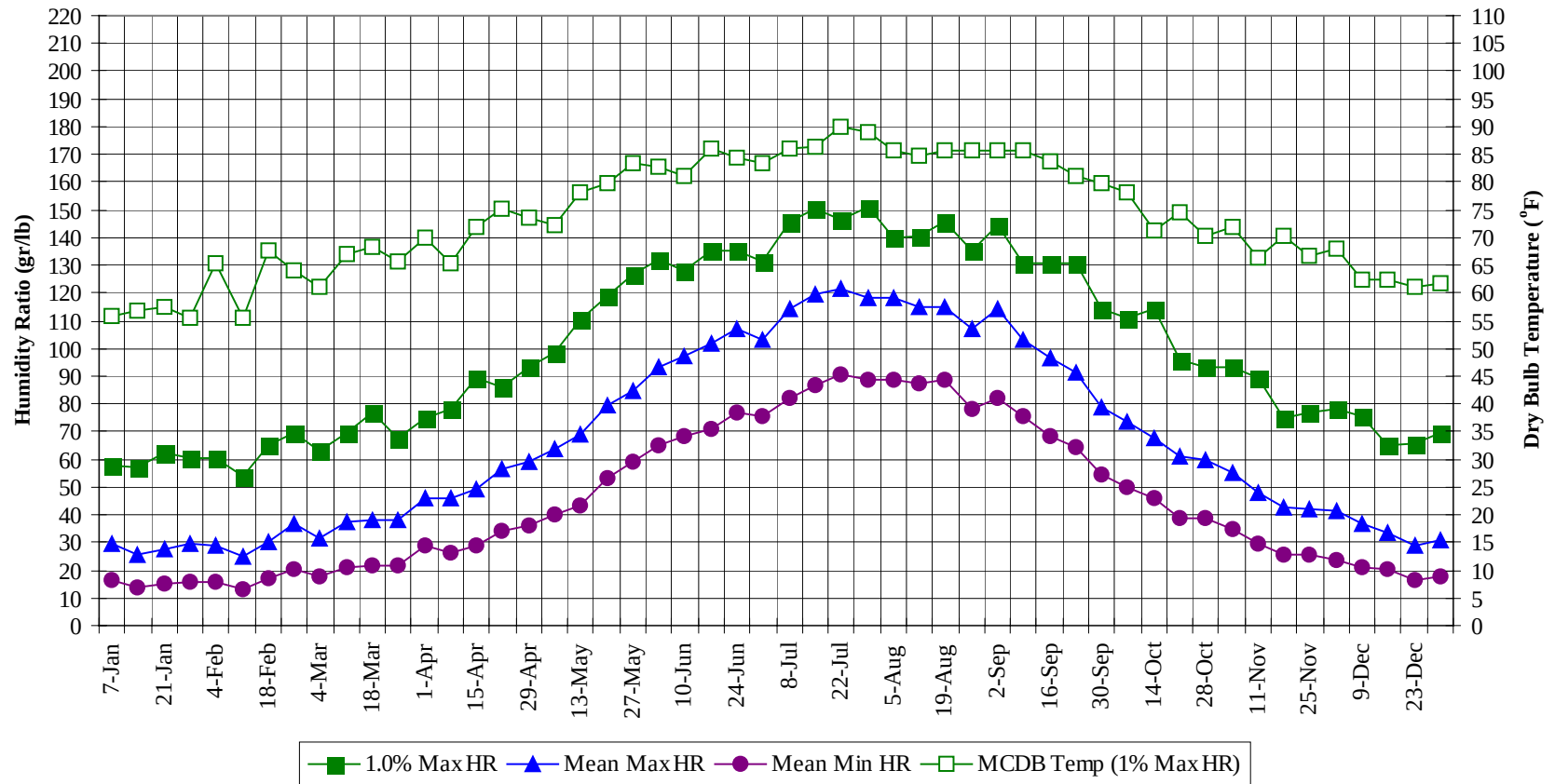
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		1	0	1	80.9
95 / 99	0	13	3	16	77.8
90 / 94	0	91	27	118	76.4
85 / 89	2	208	89	299	73.9
80 / 84	27	297	192	516	71.3
75 / 79	190	304	299	793	68.7
70 / 74	378	268	327	973	65.4
65 / 69	307	242	266	814	60.4
60 / 64	269	226	248	743	55.6
55 / 59	244	217	242	703	51.0
50 / 54	251	219	242	712	46.4
45 / 49	252	233	246	731	41.9
40 / 44	239	210	237	686	37.4
35 / 39	254	180	214	648	33.1
30 / 34	242	113	160	514	28.7
25 / 29	143	60	82	286	23.9
20 / 24	68	26	32	125	19.3
15 / 19	34	9	11	54	14.9
10 / 14	13	3	2	17	10.3
5 / 9	5	1	2	8	5.7
0 / 4	1	0	0	1	0.6
-5 / -1	1	0	0	1	-4.1
-10 / -6	0			0	-6.7

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



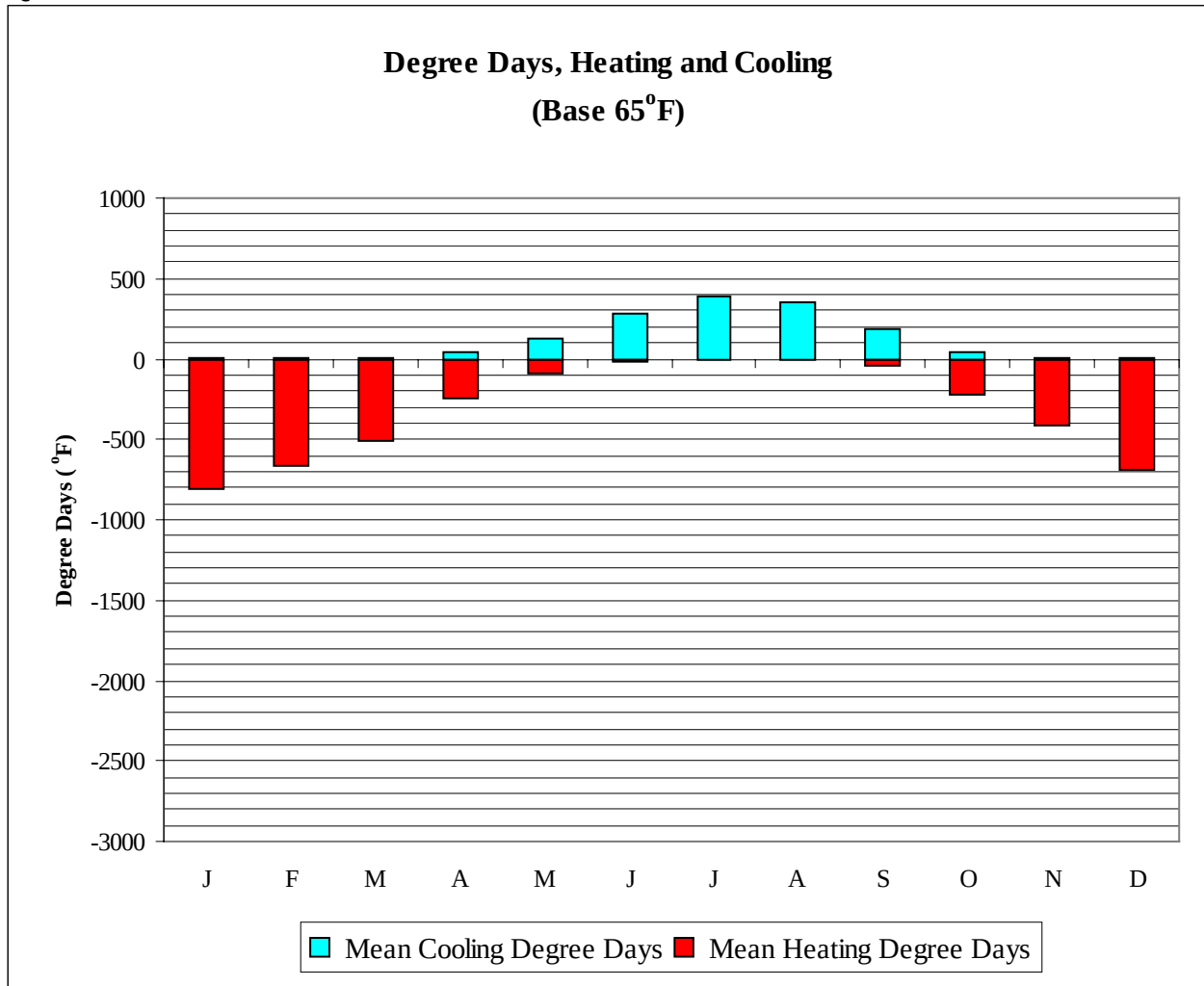
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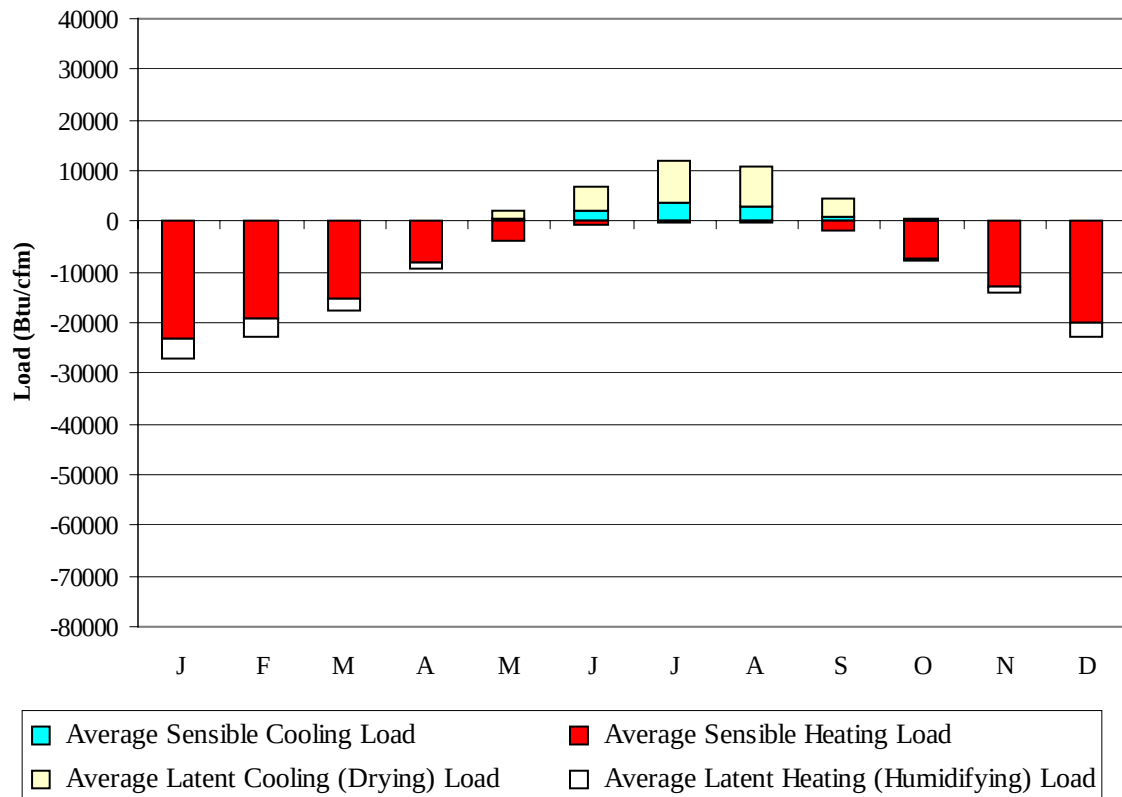
Long Term Dry Bulb Temperature and Humidity Summary

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	59.0	52.2	43.4	29.9	15.0	58.1	55.9	29.5	16.7
14-Jan	61.0	53.8	40.1	26.0	11.0	57.4	56.7	25.7	14.1
21-Jan	60.0	51.5	42.4	26.6	2.0	62.3	57.6	27.7	15.0
28-Jan	60.0	47.8	44.6	28.4	14.0	60.2	55.3	29.5	15.8
4-Feb	66.0	54.3	45.1	29.3	16.0	60.2	65.2	28.7	15.8
11-Feb	62.0	53.0	43.1	26.6	9.0	53.9	55.3	24.9	13.4
18-Feb	69.0	61.6	45.5	30.1	15.0	65.1	67.8	30.4	16.8
25-Feb	71.0	54.2	52.8	35.0	21.0	69.3	64.1	37.0	20.6
4-Mar	71.0	56.0	49.5	32.8	19.0	63.0	61.2	31.6	17.7
11-Mar	71.0	59.3	52.8	35.5	20.0	69.3	67.0	37.2	21.0
18-Mar	77.0	63.6	55.7	37.0	24.0	77.0	68.4	38.2	22.0
25-Mar	74.0	58.0	57.2	39.1	27.0	67.9	65.8	38.3	21.4
1-Apr	80.0	63.1	60.8	44.4	32.0	74.9	69.9	46.2	28.6
8-Apr	78.0	58.0	61.9	43.9	32.0	78.4	65.4	45.9	26.6
15-Apr	81.0	67.4	64.3	45.3	33.0	89.6	72.0	49.5	29.1
22-Apr	88.0	67.6	69.3	49.9	38.0	86.1	75.3	56.6	34.2
29-Apr	87.0	64.0	71.0	50.6	40.0	93.1	73.7	59.2	36.2
6-May	85.0	66.1	71.4	52.6	43.0	98.7	72.3	63.9	40.3
13-May	86.0	72.5	73.8	53.9	43.0	110.6	78.1	69.1	43.4
20-May	86.0	68.8	74.8	58.0	45.0	119.0	79.9	79.5	53.1
27-May	89.0	73.7	77.3	59.6	48.0	126.7	83.3	84.8	59.3
3-Jun	92.0	74.9	79.6	61.6	50.0	132.3	82.7	93.1	64.9
10-Jun	91.0	76.1	81.8	64.2	52.0	128.1	81.0	97.4	68.0
17-Jun	93.0	75.3	83.6	66.0	56.0	135.1	85.9	101.5	70.9
24-Jun	92.0	75.3	84.5	67.6	57.0	135.1	84.4	106.9	76.7
1-Jul	93.0	74.9	84.4	67.0	58.0	131.6	83.4	103.3	75.2
8-Jul	96.0	77.0	86.9	69.0	60.0	145.6	86.2	114.2	81.9
15-Jul	96.0	78.8	88.4	70.8	63.0	150.5	86.5	119.4	86.8
22-Jul	97.0	78.9	88.7	71.6	64.0	146.3	90.0	121.8	90.6
29-Jul	94.0	78.0	86.7	70.8	64.0	151.2	89.0	118.5	88.8
5-Aug	94.0	78.2	87.4	70.2	62.0	140.0	85.7	118.0	88.9
12-Aug	93.0	77.1	85.4	69.2	59.0	140.7	84.8	114.7	87.4
19-Aug	95.0	77.1	85.5	69.8	63.0	145.6	85.7	115.0	88.5
26-Aug	91.0	74.7	83.4	67.2	59.0	135.1	85.8	106.9	78.0
2-Sep	94.0	78.9	85.8	68.1	55.0	144.2	85.6	114.2	82.3
9-Sep	92.0	77.8	81.9	65.5	53.0	130.9	85.8	103.0	75.8
16-Sep	89.0	75.1	80.0	63.1	50.0	130.9	83.8	96.8	68.2
23-Sep	89.0	75.4	77.0	60.9	49.0	130.9	81.2	91.4	64.2
30-Sep	85.0	73.3	73.4	56.6	45.0	114.1	79.9	79.0	54.8
7-Oct	83.0	70.5	71.3	53.4	40.0	111.3	78.2	73.4	50.2
14-Oct	81.0	68.9	69.0	51.2	38.0	114.1	71.4	67.5	45.7
21-Oct	80.0	68.5	67.3	48.0	35.0	95.9	74.5	60.9	38.6
28-Oct	78.0	65.9	66.2	47.5	34.0	93.1	70.2	60.0	38.9
4-Nov	77.0	65.2	63.9	45.6	33.0	93.1	71.8	55.5	35.1
11-Nov	74.0	65.5	59.1	42.4	28.0	89.6	66.4	47.7	29.7
18-Nov	76.0	64.3	57.1	39.8	27.0	74.9	70.3	42.8	25.9
25-Nov	72.0	60.5	55.1	39.1	26.0	77.0	66.8	42.0	25.9
2-Dec	70.0	62.0	53.3	36.9	26.0	78.4	68.0	41.5	24.0
9-Dec	68.0	58.8	50.2	34.9	24.0	75.6	62.3	36.5	21.0
16-Dec	65.0	56.1	46.8	33.3	18.0	65.1	62.4	33.5	20.2
23-Dec	64.0	56.5	44.0	30.4	11.0	65.8	61.2	29.1	16.6
31-Dec	70.0	60.6	44.6	30.7	15.0	69.3	61.8	31.2	17.9



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	814
FEB	2	667
MAR	10	510
APR	42	251
MAY	122	95
JUN	278	13
JUL	387	1
AUG	351	4
SEP	181	42
OCT	41	220
NOV	8	414
DEC	1	688
ANN	1423	3719

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 Load	Average Latent Heating Load
	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)
JAN	0	-23296	0	-3806
FEB	2	-19279	2	-3383
MAR	30	-15445	4	-2239
APR	192	-8343	107	-968
MAY	603	-3650	1330	-104
JUN	2087	-705	4797	-1
JUL	3592	-111	8528	0
AUG	2963	-253	7949	0
SEP	1029	-1828	3296	-4
OCT	110	-7476	551	-272
NOV	10	-12733	56	-1391
DEC	1	-19977	3	-2882
ANN	10619	-113096	26623	-15050

Average Annual Solar Radiation – Nearest Available Site

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

City: STERLING
 State: VA
 WBAN No: 93738
 Lat(N): 38.95
 Long(W): 77.45
 Elev(ft): 269

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.504
 Vert Gap: 0.315

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	670	930	1250	1590	1820	1990	1910	1710	1410	1070	720	580	1310
	Std Dev	65	86	99	158	117	120	134	95	103	94	68	43	50
	Minimum	530	730	1060	1330	1630	1740	1600	1550	1260	900	580	490	1180
	Maximum	780	1070	1420	1940	2040	2200	2130	1880	1610	1260	850	650	1400
	Diffuse	330	430	570	720	860	950	940	850	660	460	340	290	620
Clear Day	Global	950	1290	1760	2220	2510	2600	2520	2250	1840	1370	980	820	1760
NORTH	Global	200	270	350	450	550	630	590	500	390	300	220	180	390
	Diffuse	200	270	350	440	510	560	540	480	390	300	220	180	370
Clear Day	Global	190	250	330	430	580	680	620	480	370	280	200	170	380
EAST	Global	440	590	760	930	1020	1080	1040	960	830	670	480	390	760
	Diffuse	250	330	430	530	610	670	650	600	490	370	270	220	450
Clear Day	Global	710	910	1140	1330	1420	1430	1390	1300	1140	920	720	630	1090
SOUTH	Global	1040	1130	1100	970	830	790	810	930	1060	1170	1040	950	990
	Diffuse	360	430	500	550	580	610	610	600	540	460	370	320	490
Clear Day	Global	1940	1980	1780	1390	1050	910	960	1210	1560	1800	1850	1850	1520
WEST	Global	450	590	770	910	990	1050	1010	940	820	670	470	390	760
	Diffuse	250	330	430	540	620	670	660	600	490	370	270	220	460
Clear Day	Global	710	910	1140	1330	1420	1430	1390	1300	1140	920	720	630	1090

Average Annual Solar Heat and Illumination – Nearest Available Site

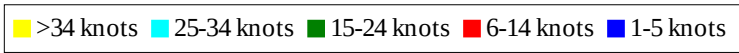
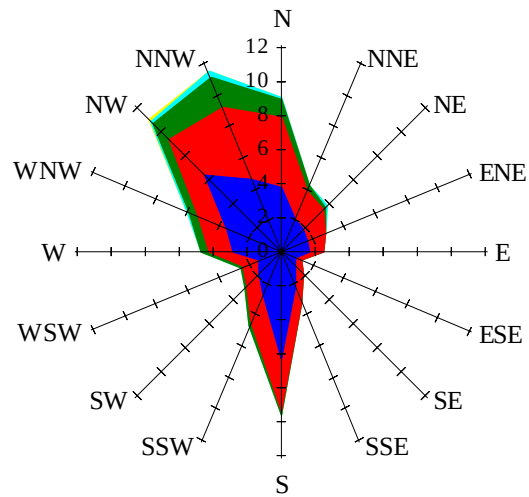
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	440	630	890	1140	1320	1440	1390	1240	1010	740	480	370	930
NORTH	Unshaded	140	190	240	300	370	410	390	340	270	210	150	130	260
	Shaded	130	170	220	270	330	370	350	300	240	190	130	110	230
EAST	Unshaded	300	420	540	660	720	770	730	680	590	470	330	260	540
	Shaded	270	370	470	570	620	660	630	580	520	410	300	240	470
SOUTH	Unshaded	780	830	760	630	520	490	500	600	720	840	780	720	680
	Shaded	760	770	610	420	360	370	370	400	530	740	750	700	560
WEST	Unshaded	310	420	540	650	700	740	720	670	580	470	320	270	530
	Shaded	280	370	480	560	600	640	610	570	500	420	290	240	470

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	37	72	83	67	29	44	81	101	95	69
	M.Cloudy	22	44	51	41	18	29	57	74	71	49
NORTH	M.Clear	10	14	15	13	8	19	17	18	18	16
	M.Cloudy	9	15	17	14	7	14	18	20	20	16
EAST	M.Clear	73	59	15	13	8	71	73	35	18	16
	M.Cloudy	26	32	17	14	7	33	46	30	20	16
SOUTH	M.Clear	37	71	83	67	29	12	30	46	42	22
	M.Cloudy	16	37	43	33	13	11	25	37	34	19
WEST	M.Clear	10	14	20	66	68	12	17	18	50	75
	M.Cloudy	9	15	19	33	24	11	18	20	39	45
M.Clear	(% hrs)	33	29	30	32	34	40	38	33	29	33
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	25	64	84	78	48	13	40	47	30	3
	M.Cloudy	15	40	57	53	31	8	24	28	18	2
NORTH	M.Clear	8	15	17	16	13	5	10	11	8	2
	M.Cloudy	7	15	18	17	12	4	10	11	8	1
EAST	M.Clear	57	69	32	16	13	38	40	11	8	2
	M.Cloudy	19	35	25	17	12	11	18	11	8	1
SOUTH	M.Clear	18	54	73	67	38	34	77	87	63	8
	M.Cloudy	9	29	44	41	21	10	29	34	23	3
WEST	M.Clear	8	15	17	50	70	5	10	19	47	11
	M.Cloudy	7	15	18	33	33	4	10	13	18	3
M.Clear	(% hrs)	42	43	38	35	38	29	31	30	32	35

Wind Summary - December, January, and February

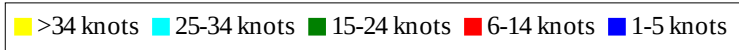
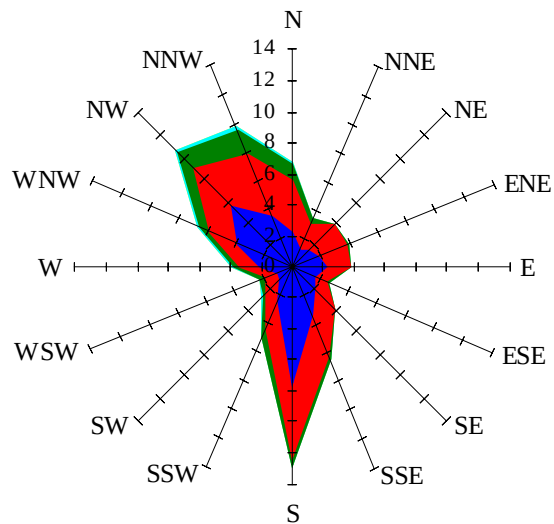
Labels of Percent Frequency on North Axis



Percent Calm = 19.13

Wind Summary - March, April, and May

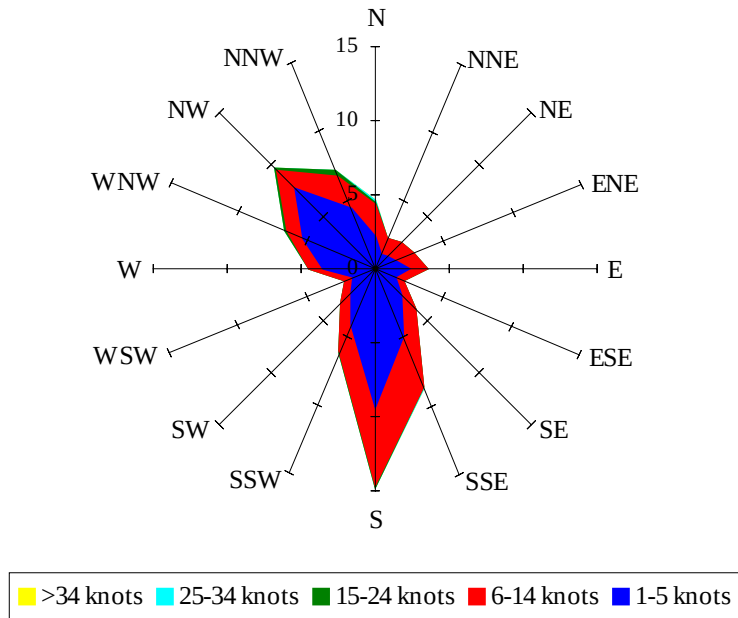
Labels of Percent Frequency on North Axis



Percent Calm = 12.59

Wind Summary - June, July, and August

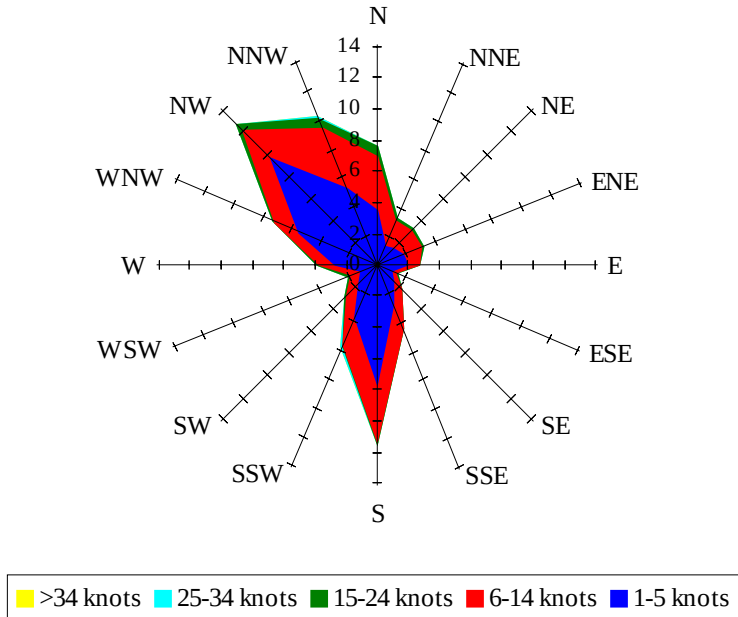
Labels of Percent Frequency on North Axis



Percent Calm = 15.62

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 16.60