

NEW RIVER MCAS	NC	
Latitude = 34.72 N		WMO No. 723096
Longitude = 77.45 W		Elevation = 26 feet
Period of Record = 1973 to 1996		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	98	79	122	6.3	W
0.4% Occurrence	94	78	121	7.1	WSW
1.0% Occurrence	92	78	120	7.1	WSW
2.0% Occurrence	90	77	117	6.9	S
Mean Daily Range	20	-	-	-	-
97.5% Occurrence	30	27	15	4.7	N
99.0% Occurrence	26	23	13	4.5	N
99.6% Occurrence	21	19	10	5.3	N
Median of Extreme Lows	14	12	7	7.1	NNW
	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	84	92	158	7.3	S
0.4% Occurrence	81	90	141	6.7	S
1.0% Occurrence	79	88	133	6.6	S
2.0% Occurrence	78	86	129	6.4	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	167	89	1.11	6.9	SSW
0.4% Occurrence	146	86	0.97	5.8	S
1.0% Occurrence	140	85	0.94	5.7	S
2.0% Occurrence	133	82	0.88	6.6	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		63	1273	1391	2874

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	4.2	120	5.2 + 1.3
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft²)	Average Annual Freeze-Thaw Cycles (#)
65.5	N/A	N/A	33

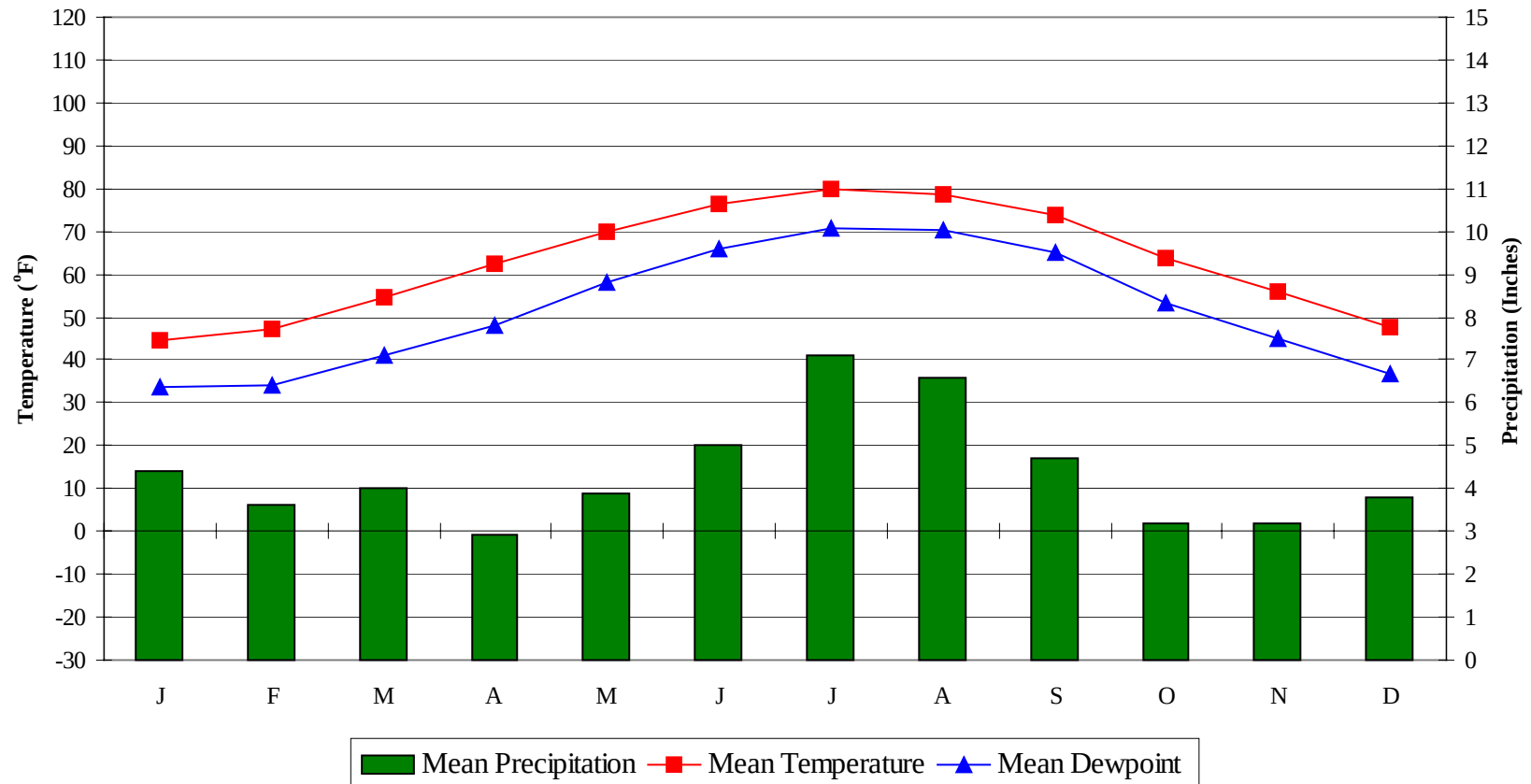
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

NEW RIVER MCAS

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Average Annual Climate

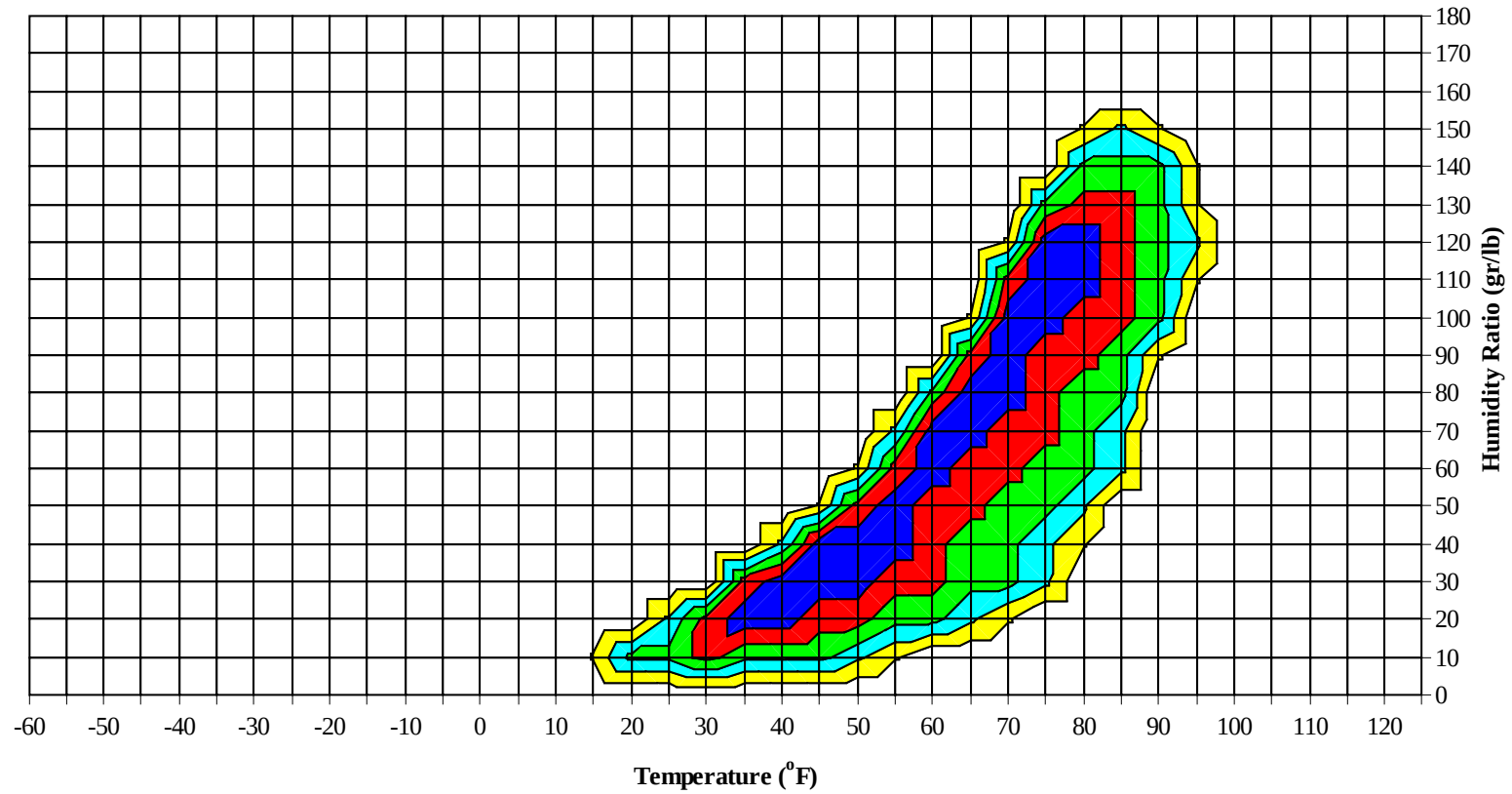


NEW RIVER MCAS

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Long Term Psychrometric Summary



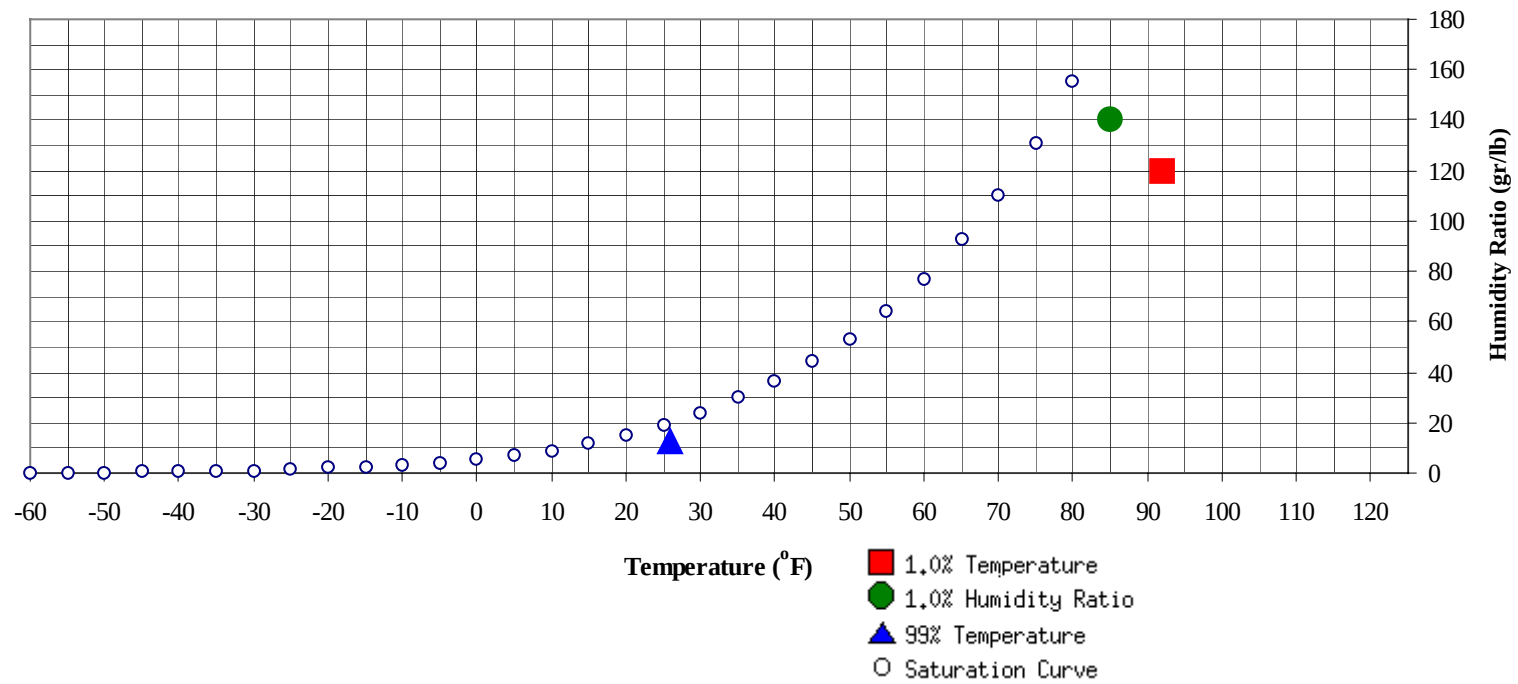
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

NEW RIVER MCAS

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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)
	26	12.5	8.2		140	84.9	79.1	77	42.3

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	92	120.1	77.8	41.0

NEW RIVER MCAS

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WMO No. 723096

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	60.0		0		0	66.0
80 / 84		0		0	65.3		1	0	1	66.1		8	1	1	66.6
75 / 79		3	0	3	65.2		6	0	6	63.8		18	3	9	65.5
70 / 74	1	7	1	9	62.3	0	14	2	16	60.7	2	31	11	44	60.5
65 / 69	6	17	10	33	60.4	6	23	11	40	58.5	13	40	27	80	58.6
60 / 64	12	23	15	50	56.4	15	30	25	70	55.0	28	44	44	116	55.0
55 / 59	14	31	22	67	51.2	16	27	30	73	50.4	31	37	44	112	50.5
50 / 54	20	41	32	94	46.2	23	29	30	82	45.7	38	31	43	112	46.2
45 / 49	30	40	44	115	42.2	24	30	32	86	41.4	38	20	34	92	41.8
40 / 44	39	33	43	116	37.8	34	29	34	97	37.1	39	12	23	74	37.6
35 / 39	38	26	34	98	33.1	39	19	29	87	32.8	29	6	14	49	33.5
30 / 34	41	14	27	82	28.7	33	11	18	62	28.5	22	1	5	28	29.0
25 / 29	27	7	13	47	24.3	20	3	9	32	24.1	4	1	1	6	24.2
20 / 24	14	3	4	21	19.6	11	1	3	15	19.8	1	0	0	1	19.5
15 / 19	5	1	1	7	15.0	4	0	1	5	16.2	1	0	0	1	15.7
10 / 14	1	0	0	1	9.4	0	0	0	0	11.0	0		0	0	11.6
5 / 9	0	0	0	0	5.4	0		0	0	7.5					
0 / 4	0			0	0.7										
-5 / -1															

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.

NEW RIVER MCAS

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WMO No. 723096

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															
90 / 94		2	0	2	67.1										
85 / 89		8	1	9	66.9										
80 / 84		25	3	28	65.5	1	62	12	75	69.6	10	79	41	130	71.9
75 / 79	1	43	10	54	63.8	11	65	40	116	67.0	54	42	83	179	70.8
70 / 74	10	53	32	95	61.3	50	47	75	172	65.4	90	18	70	178	68.0
65 / 69	31	43	55	129	59.0	68	23	56	147	61.9	54	5	22	81	63.4
60 / 64	51	31	51	133	55.4	49	12	33	94	57.5	20	1	7	28	58.4
55 / 59	42	20	39	101	51.0	34	4	19	57	53.0	8	0	2	10	54.3
50 / 54	41	11	26	78	46.7	26	1	8	35	49.0	2			2	50.5
45 / 49	34	5	16	55	42.8	7	0	1	8	44.6					
40 / 44	21	1	6	28	38.4	2		0	2	40.3					
35 / 39	8	0	1	9	34.3	0			0	36.4					
30 / 34	2	0	0	2	30.0										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															

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NEW RIVER MCAS

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WMO No. 723096

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		1	79.0										
95 / 99		13	1	14	79.8		5	0	5	79.2		1		1	77.7
90 / 94		52	7	59	78.2	0	38	4	42	78.5		12	1	13	77.1
85 / 89	3	90	27	120	76.2	1	86	18	105	76.2	0	51	5	56	75.0
80 / 84	29	58	71	158	74.7	17	71	63	151	74.6	4	74	27	105	72.7
75 / 79	111	26	99	237	72.9	92	36	101	229	73.0	38	54	74	166	71.2
70 / 74	81	7	36	124	69.6	102	10	53	165	69.5	83	30	75	188	68.1
65 / 69	17	1	5	23	64.4	28	2	7	37	64.1	59	13	36	108	63.3
60 / 64	6	0	1	7	59.5	7	0	1	8	59.5	31	3	15	49	58.3
55 / 59	1		0	1	55.3	1		0	1	55.1	17	1	6	24	53.6
50 / 54	0			0	52.3			0	0		6	0	1	7	49.0
45 / 49											1		0	1	44.7
40 / 44											0			0	41.0
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															

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NEW RIVER MCAS

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WMO No. 723096

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		1	0	1	74.5										
85 / 89		5	0	5	73.2		1	0	1	69.5					
80 / 84	1	33	3	37	70.4		7	0	7	68.9		0		0	68.1
75 / 79	6	53	18	77	67.6	0	26	2	28	66.9		6	0	6	66.5
70 / 74	20	55	42	117	64.8	10	40	19	69	64.1	3	15	4	22	64.3
65 / 69	37	45	51	133	60.9	23	35	33	91	61.2	9	24	14	47	60.5
60 / 64	47	32	49	128	56.8	26	35	35	96	56.1	14	29	19	62	56.2
55 / 59	44	15	37	96	52.4	30	37	36	103	51.2	18	38	27	83	51.1
50 / 54	39	6	27	72	48.1	35	30	40	105	46.9	24	41	38	103	46.6
45 / 49	31	2	13	46	44.0	32	18	32	82	42.3	36	40	46	122	42.2
40 / 44	16	0	5	21	39.5	32	8	24	64	38.3	38	26	38	102	37.7
35 / 39	8	0	1	9	35.0	30	2	13	45	34.1	35	17	26	78	33.1
30 / 34	1			1	30.4	18	0	5	23	29.9	36	9	22	67	28.8
25 / 29	0			0	26.0	5		1	6	26.2	22	2	10	34	24.3
20 / 24						0			0	21.7	9	1	2	12	19.9
15 / 19						0			0		2	1	1	4	15.8
10 / 14											1	0	0	1	11.4
5 / 9											0		0	0	5.3
0 / 4											0			0	3.0
-5 / -1											0			0	-3.0

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NEW RIVER MCAS NC

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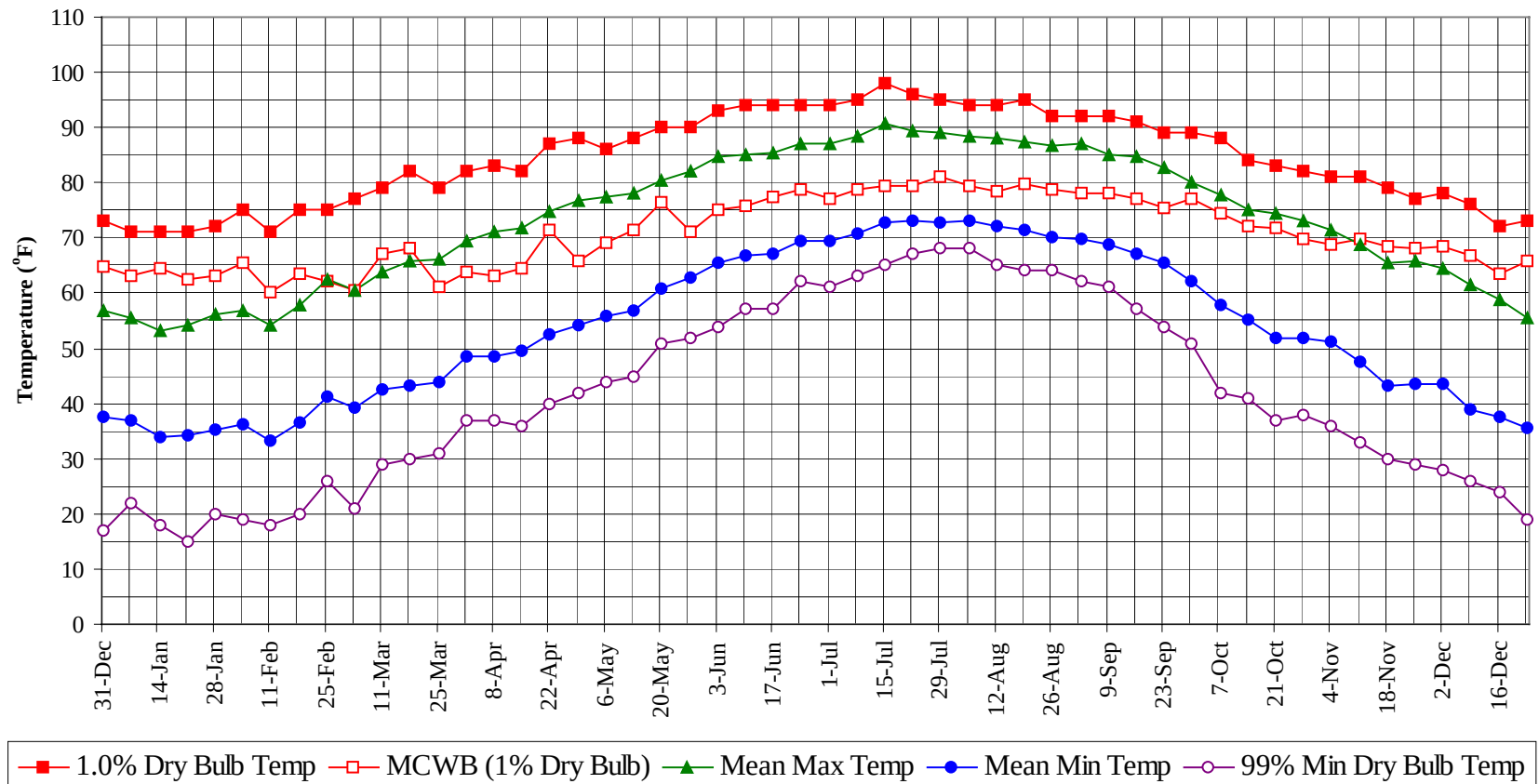
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

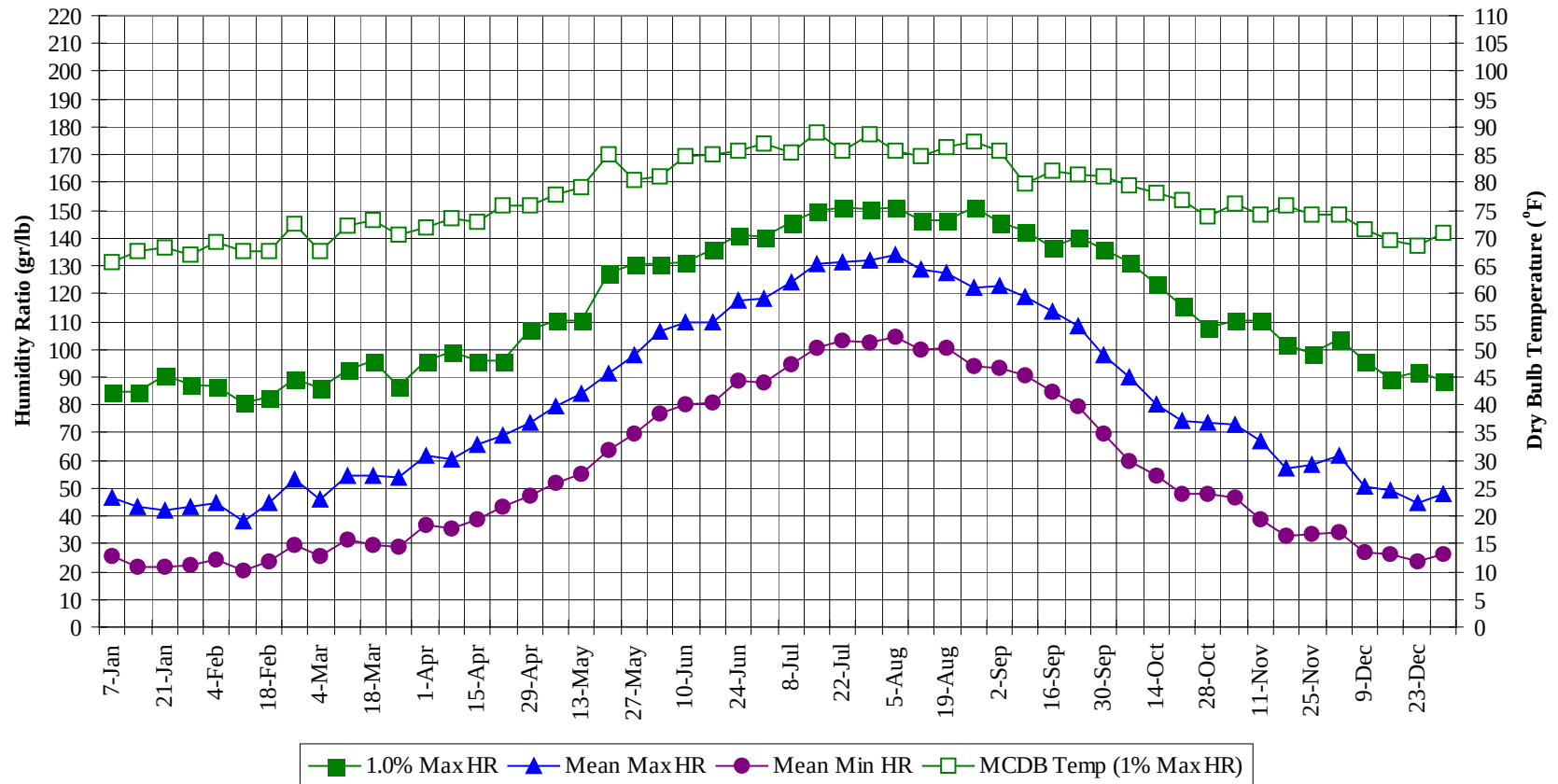
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104	1			1	78.6
95 / 99	24			26	79.1
90 / 94	0	137	15	152	77.4
85 / 89	5	330	66	401	75.0
80 / 84	61	418	220	699	72.6
75 / 79	312	378	429	1118	70.5
70 / 74	452	329	421	1201	66.5
65 / 69	351	270	325	946	61.2
60 / 64	305	241	295	841	56.3
55 / 59	257	211	262	730	51.4
50 / 54	254	190	245	689	46.8
45 / 49	234	155	220	609	42.3
40 / 44	223	109	174	506	37.8
35 / 39	187	72	119	378	33.3
30 / 34	154	36	77	267	28.8
25 / 29	78	13	34	125	24.3
20 / 24	34	5	10	49	19.7
15 / 19	11	2	3	16	15.6
10 / 14	2	0	1	3	10.4
5 / 9	1	0	0	1	5.6
0 / 4	0			0	1.2
-5 / -1	0			0	-3.0

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



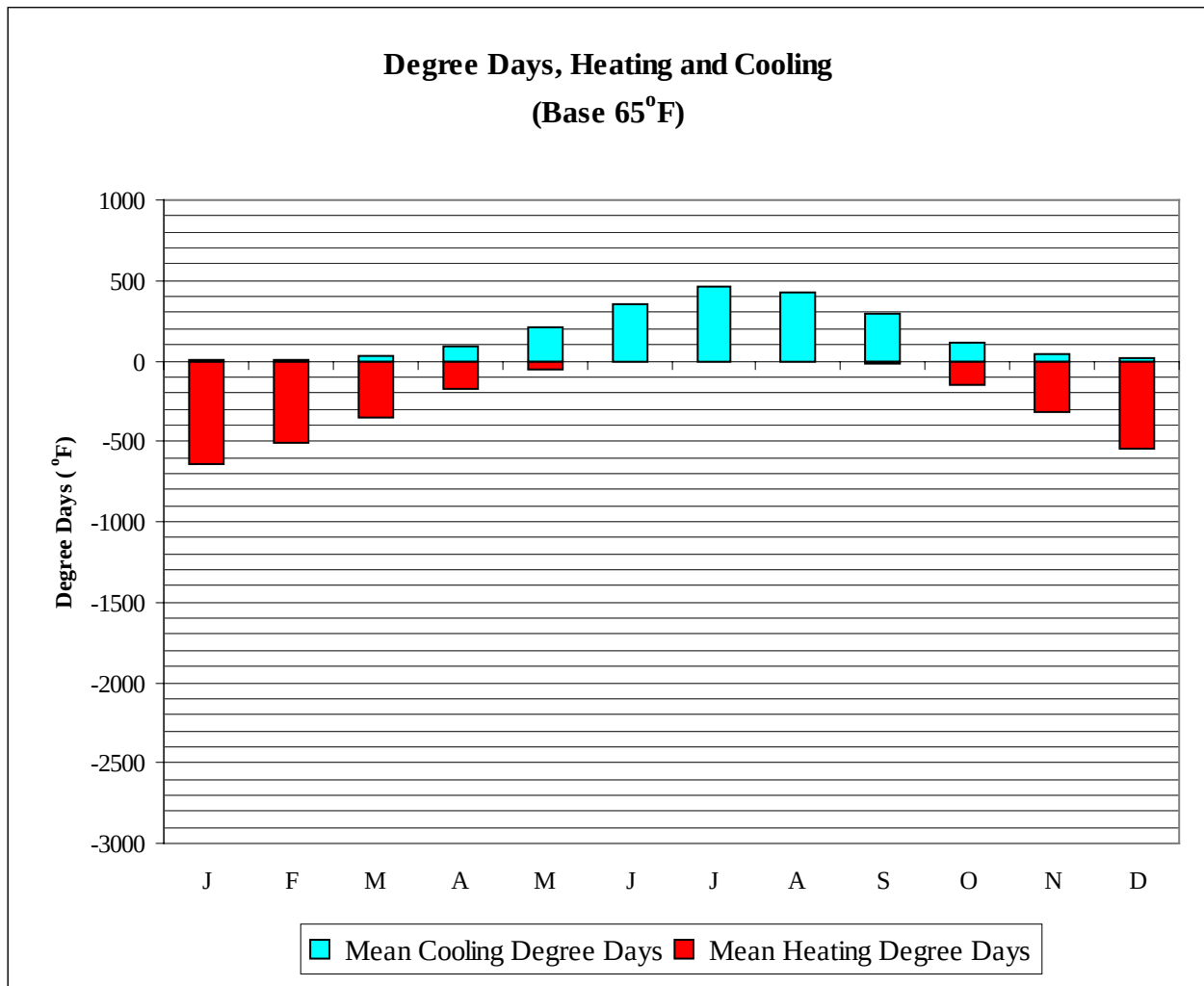
NEW RIVER MCAS

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WMO No. 723096

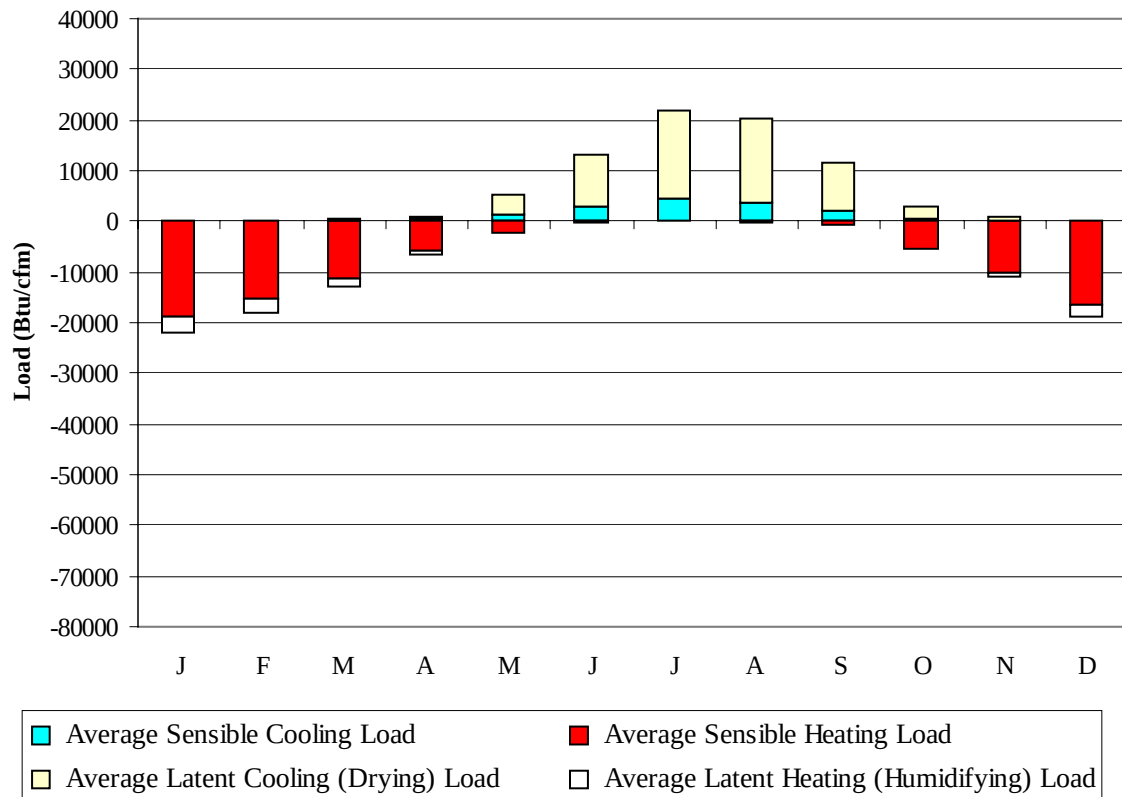
Long Term Dry Bulb Temperature and Humidity Summary

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	71.0	63.0	55.4	37.0	22.0	84.7	65.7	46.6	25.4
14-Jan	71.0	64.4	53.3	33.8	18.0	84.7	67.8	43.2	21.4
21-Jan	71.0	62.4	54.2	34.3	15.0	90.3	68.3	42.0	21.7
28-Jan	72.0	63.0	56.0	35.3	20.0	87.5	67.0	43.2	22.4
4-Feb	75.0	65.3	56.9	36.4	19.0	86.8	69.2	44.6	24.3
11-Feb	71.0	60.0	54.0	33.3	18.0	80.5	67.6	38.4	20.1
18-Feb	75.0	63.5	57.9	36.6	20.0	82.6	67.7	44.4	23.8
25-Feb	75.0	62.1	62.5	41.4	26.0	89.6	72.7	53.0	29.4
4-Mar	77.0	60.6	60.4	39.1	21.0	86.1	67.5	46.1	25.4
11-Mar	79.0	67.1	63.9	42.6	29.0	92.4	72.2	54.5	31.6
18-Mar	82.0	68.3	65.8	43.2	30.0	95.9	73.4	54.2	29.6
25-Mar	79.0	61.3	66.2	43.8	31.0	86.8	70.6	54.0	29.0
1-Apr	82.0	63.9	69.6	48.7	37.0	95.9	72.1	61.4	36.9
8-Apr	83.0	63.3	71.0	48.4	37.0	99.4	73.4	60.6	35.6
15-Apr	82.0	64.5	71.8	49.7	36.0	95.9	72.9	65.6	38.6
22-Apr	87.0	71.6	74.7	52.5	40.0	95.9	76.0	68.8	43.5
29-Apr	88.0	65.9	76.8	54.3	42.0	107.1	76.0	73.5	47.1
6-May	86.0	69.1	77.4	55.7	44.0	110.6	77.9	79.4	51.7
13-May	88.0	71.3	78.2	56.9	45.0	110.6	79.3	84.1	55.1
20-May	90.0	76.3	80.3	60.9	51.0	127.4	85.1	91.6	63.6
27-May	90.0	71.1	82.2	62.8	52.0	130.9	80.3	97.8	69.4
3-Jun	93.0	75.0	84.6	65.6	54.0	130.9	81.2	106.1	76.7
10-Jun	94.0	75.6	85.1	67.0	57.0	131.6	84.9	110.0	79.9
17-Jun	94.0	77.3	85.3	67.2	57.0	135.8	84.9	109.4	80.8
24-Jun	94.0	78.7	87.0	69.5	62.0	141.4	85.8	117.4	88.9
1-Jul	94.0	77.1	87.0	69.4	61.0	140.7	86.9	118.2	87.9
8-Jul	95.0	78.8	88.3	70.7	63.0	145.6	85.3	124.2	94.4
15-Jul	98.0	79.6	90.8	72.8	65.0	149.8	89.0	130.9	100.6
22-Jul	96.0	79.6	89.3	73.2	67.0	151.2	85.8	131.3	103.0
29-Jul	95.0	81.1	89.1	72.8	68.0	150.5	88.7	131.9	102.7
5-Aug	94.0	79.5	88.6	73.0	68.0	151.2	85.8	133.9	104.4
12-Aug	94.0	78.6	88.0	72.2	65.0	146.3	84.6	128.8	99.8
19-Aug	95.0	79.7	87.6	71.6	64.0	146.3	86.5	127.7	100.2
26-Aug	92.0	78.9	86.9	70.1	64.0	151.2	87.5	122.4	94.0
2-Sep	92.0	78.0	87.1	69.9	62.0	145.6	85.8	122.5	93.3
9-Sep	92.0	78.0	85.2	68.8	61.0	142.8	79.7	118.7	90.5
16-Sep	91.0	77.1	84.8	67.2	57.0	136.5	82.1	113.9	84.5
23-Sep	89.0	75.4	82.7	65.3	54.0	140.7	81.5	108.4	79.2
30-Sep	89.0	77.1	80.2	62.2	51.0	135.8	81.2	97.8	69.7
7-Oct	88.0	74.5	77.8	58.0	42.0	131.6	79.4	90.0	60.1
14-Oct	84.0	72.3	75.0	55.3	41.0	123.2	78.0	80.1	54.2
21-Oct	83.0	71.9	74.4	51.8	37.0	115.5	76.9	74.3	47.9
28-Oct	82.0	69.9	73.1	51.9	38.0	107.8	73.9	73.5	48.0
4-Nov	81.0	68.7	71.5	51.3	36.0	110.6	76.2	72.8	46.8
11-Nov	81.0	69.9	68.7	47.6	33.0	110.6	74.1	66.8	38.9
18-Nov	79.0	68.3	65.5	43.1	30.0	101.5	75.8	57.1	32.9
25-Nov	77.0	68.1	65.6	43.6	29.0	98.7	74.3	58.4	33.2
2-Dec	78.0	68.3	64.5	43.4	28.0	103.6	74.3	62.0	33.9
9-Dec	76.0	66.7	61.3	39.0	26.0	95.9	71.4	50.8	26.8
16-Dec	72.0	63.4	58.8	37.4	24.0	89.6	69.7	49.0	26.5
23-Dec	73.0	65.7	55.6	35.5	19.0	91.7	68.6	44.6	23.9
31-Dec	73.0	64.8	56.8	37.5	17.0	88.9	70.9	48.2	26.1



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	6	636
FEB	11	513
MAR	35	358
APR	91	170
MAY	205	57
JUN	351	7
JUL	466	1
AUG	423	1
SEP	288	18
OCT	113	151
NOV	46	318
DEC	12	549
ANN	2049	2779

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	6	-18791	87	-3150
FEB	18	-15349	68	-2765
MAR	111	-11304	229	-1550
APR	434	-5894	576	-491
MAY	1249	-2290	3820	-29
JUN	2932	-385	10093	0
JUL	4620	-64	17363	0
AUG	3781	-89	16462	0
SEP	2050	-843	9583	0
OCT	487	-5304	2441	-136
NOV	104	-10065	892	-982
DEC	11	-16455	214	-2513
ANN	15803	-86833	61828	-11616

Average Annual Solar Radiation – Nearest Available Site

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

City: WILMINGTON
 State: NC
 WBAN No: 13748
 Lat(N): 34.27
 Long(W): 77.9
 Elev(ft): 30

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 1.049
 Vert Gap: 0.661

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	820	1070	1430	1800	1930	1990	1900	1720	1470	1240	930	750	1420
	Std Dev	57	89	102	112	121	138	112	103	120	101	77	49	32
	Minimum	690	890	1280	1640	1630	1710	1570	1490	1190	1040	670	670	1340
	Maximum	950	1260	1640	2070	2100	2260	2070	1930	1700	1420	1030	870	1490
	Diffuse	350	440	560	680	820	890	900	830	690	500	370	320	610
Clear Day	Global	1130	1460	1890	2290	2520	2590	2510	2290	1950	1530	1160	1010	1860
NORTH	Global	230	290	370	450	560	620	590	500	410	330	250	220	400
	Diffuse	230	290	370	440	510	540	530	480	410	330	250	220	380
Clear Day	Global	220	270	340	430	590	680	630	490	390	310	230	200	400
EAST	Global	530	670	840	1030	1050	1060	1030	970	860	750	590	490	820
	Diffuse	280	350	450	550	610	640	640	590	510	410	310	260	470
Clear Day	Global	790	970	1170	1330	1390	1390	1350	1280	1160	970	790	720	1110
SOUTH	Global	1170	1200	1150	980	770	680	700	830	1010	1230	1250	1170	1010
	Diffuse	370	440	500	540	550	560	560	570	550	490	410	370	490
Clear Day	Global	1970	1930	1670	1230	890	750	800	1060	1440	1750	1870	1910	1440
WEST	Global	540	670	850	1010	1040	1050	1000	930	840	750	600	500	820
	Diffuse	280	360	460	550	620	650	640	590	510	410	310	270	470
Clear Day	Global	790	970	1170	1330	1390	1390	1350	1280	1160	970	790	720	1110

Average Annual Solar Heat and Illumination – Nearest Available Site

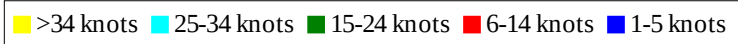
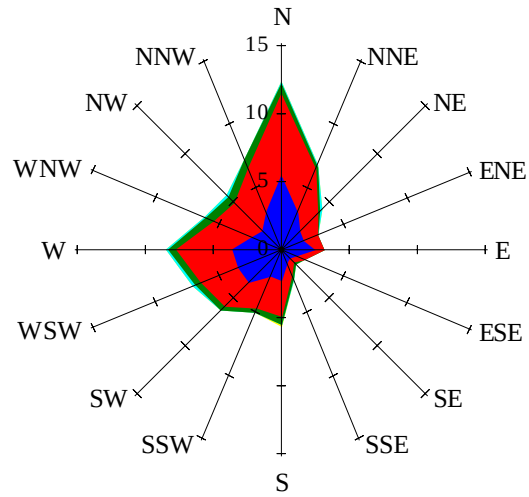
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	550	740	1020	1310	1410	1450	1380	1250	1060	870	630	500	1020
NORTH	Unshaded	160	200	260	310	370	400	380	330	280	230	170	150	270
	Shaded	130	170	220	270	310	340	320	280	240	190	150	130	230
EAST	Unshaded	370	470	600	730	740	750	730	690	610	530	410	340	580
	Shaded	310	390	470	580	580	580	570	540	480	430	340	290	460
SOUTH	Unshaded	870	870	780	610	460	420	430	510	660	870	930	880	690
	Shaded	820	690	390	310	330	330	330	330	320	590	830	840	510
WEST	Unshaded	370	470	600	720	740	740	710	660	590	530	410	340	570
	Shaded	310	390	480	560	570	570	540	510	470	430	340	290	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	40	77	89	72	32	42	82	102	97	70
	M.Cloudy	24	48	56	47	21	29	58	77	74	50
NORTH	M.Clear	10	15	16	14	9	22	17	17	18	16
	M.Cloudy	9	16	17	15	8	16	18	20	20	17
EAST	M.Clear	76	61	16	14	9	70	74	35	18	16
	M.Cloudy	28	35	17	15	8	37	48	31	20	17
SOUTH	M.Clear	35	67	77	63	29	12	24	37	35	17
	M.Cloudy	17	37	43	36	15	11	22	32	30	17
WEST	M.Clear	10	15	20	66	71	12	17	17	50	77
	M.Cloudy	9	16	19	38	28	11	18	20	39	47
M.Clear	(% hrs)	41	40	40	39	39	36	36	31	31	34
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	25	67	88	82	52	18	49	57	38	6
	M.Cloudy	16	45	62	58	34	11	29	34	24	4
NORTH	M.Clear	9	15	17	17	14	6	11	12	9	3
	M.Cloudy	7	16	19	18	13	5	11	12	9	2
EAST	M.Clear	56	71	33	17	14	46	44	12	9	3
	M.Cloudy	23	39	27	18	13	15	22	12	9	2
SOUTH	M.Clear	17	51	69	63	37	40	82	91	69	15
	M.Cloudy	10	30	44	42	22	13	33	38	29	5
WEST	M.Clear	9	15	17	51	72	6	11	21	53	22
	M.Cloudy	7	16	19	36	36	5	11	15	24	7
M.Clear	(% hrs)	39	39	33	32	36	41	39	40	39	39

Wind Summary - December, January, and February

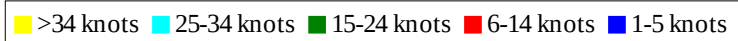
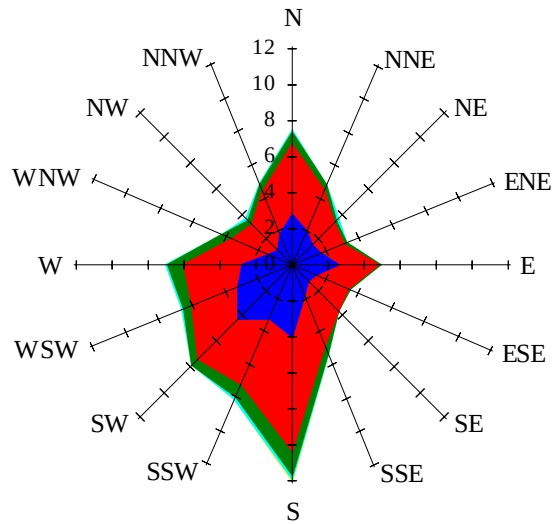
Labels of Percent Frequency on North Axis



Percent Calm = 15.41

Wind Summary - March, April, and May

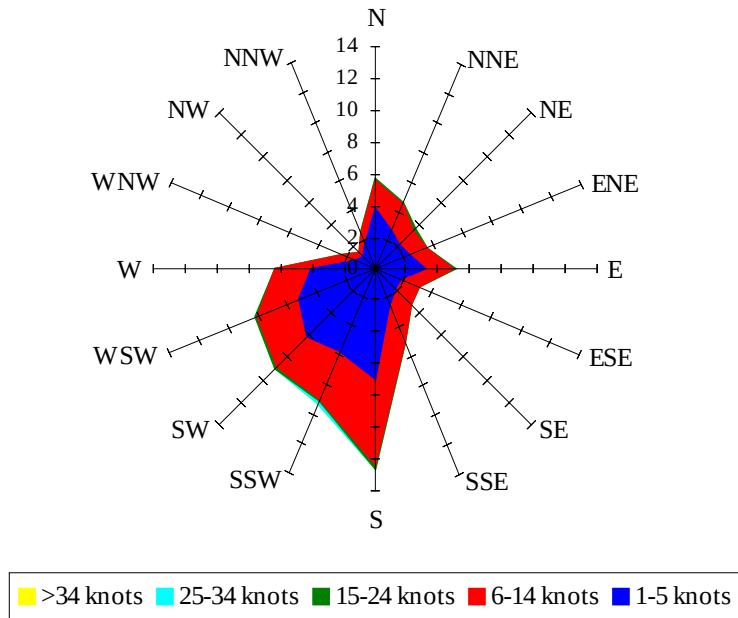
Labels of Percent Frequency on North Axis



Percent Calm = 10.41

Wind Summary - June, July, and August

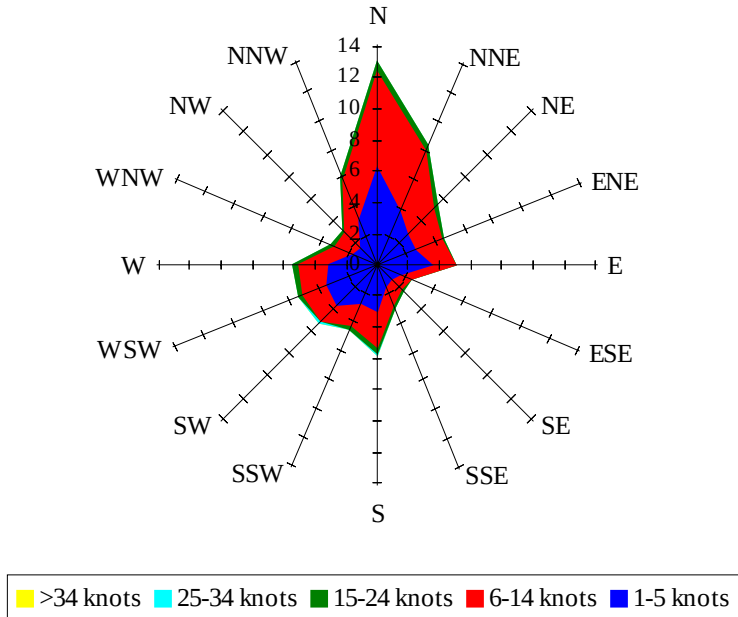
Labels of Percent Frequency on North Axis



Percent Calm = 14.70

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 17.69