

PREVEZA, GREECE

Latitude = 38.95 N

Longitude = 20.77 E

Period of Record = 1973 to 1995

WMO No. 166430

Elevation = 13 feet

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	94	72	84	9.0	NE
0.4% Occurrence	89	71	86	9.8	WSW
1.0% Occurrence	86	72	94	10.8	W
2.0% Occurrence	84	72	97	11.5	WSW
Mean Daily Range	12	-	-	-	-
97.5% Occurrence	41	38	28	8.8	NE
99.0% Occurrence	39	36	26	9.7	NE
99.6% Occurrence	37	34	23	9.2	NNE
Median of Extreme Lows	34	31	21	8.4	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	78	84	130	12.2	WSW
0.4% Occurrence	76	82	122	10.9	WSW
1.0% Occurrence	75	81	118	10.3	WSW
2.0% Occurrence	74	80	114	9.8	WSW
	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	134	80	0.89	8.3	WSW
0.4% Occurrence	127	80	0.85	8.3	WSW
1.0% Occurrence	124	80	0.83	8.1	WSW
2.0% Occurrence	118	79	0.78	8.2	WSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		9	657	431	2043

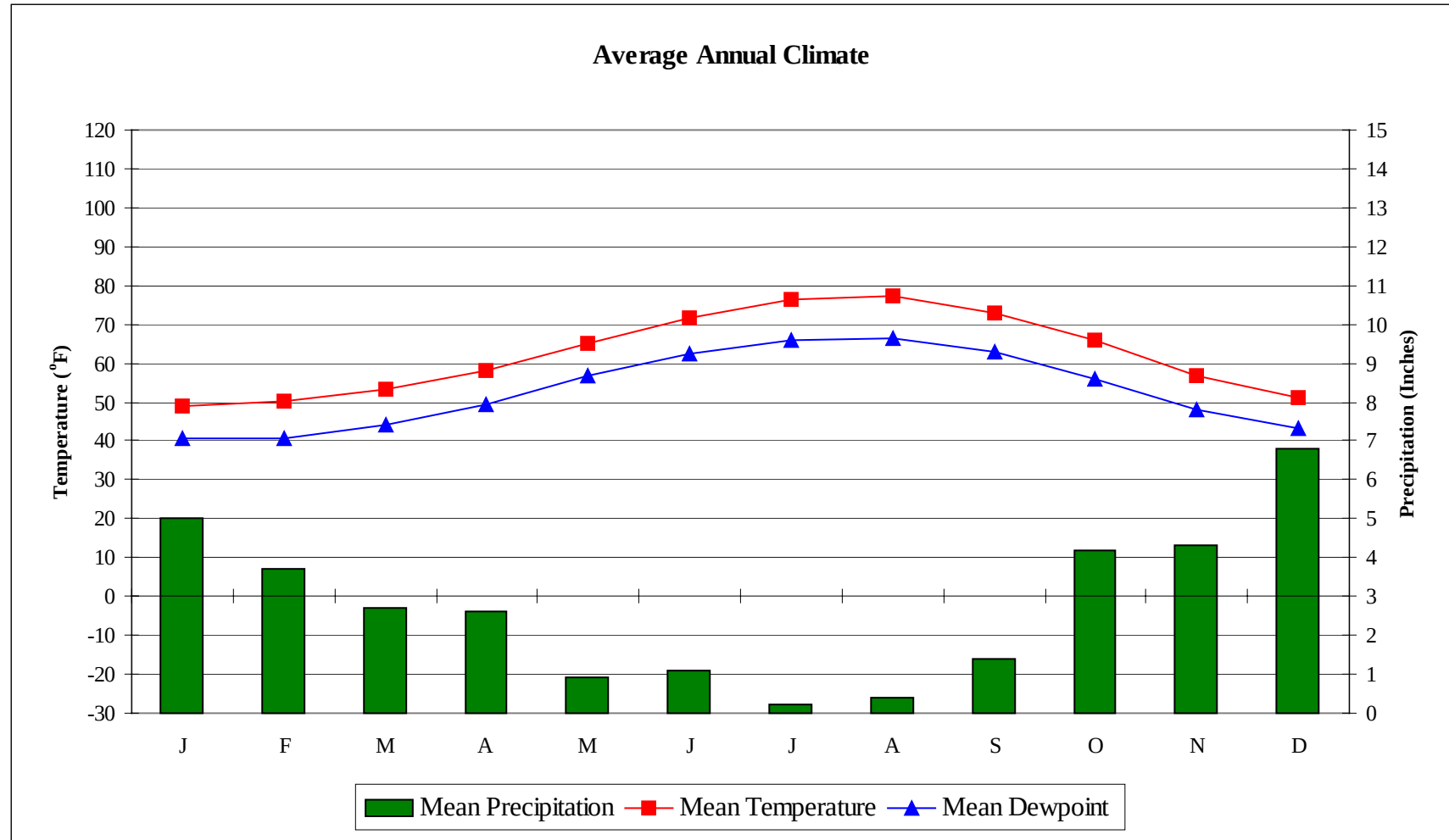
Other Site Data

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	N/A	N/A	1.2 + 0.4
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 (#)
65.0	N/A	N/A	0

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

PREVEZA, GREECE

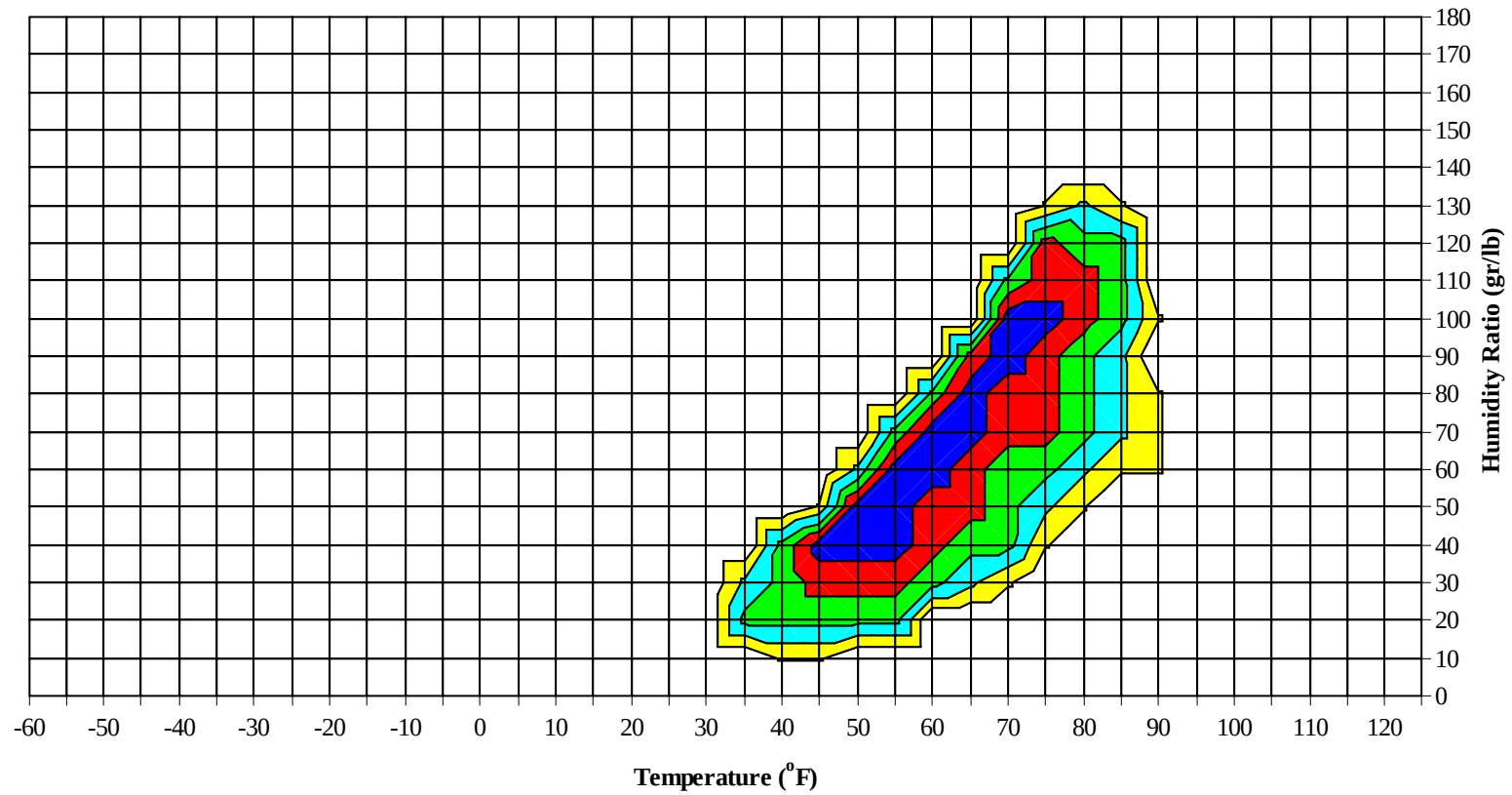
WMO No. 166430



PREVEZA, GREECE

WMO No. 166430

Long Term Psychrometric Summary

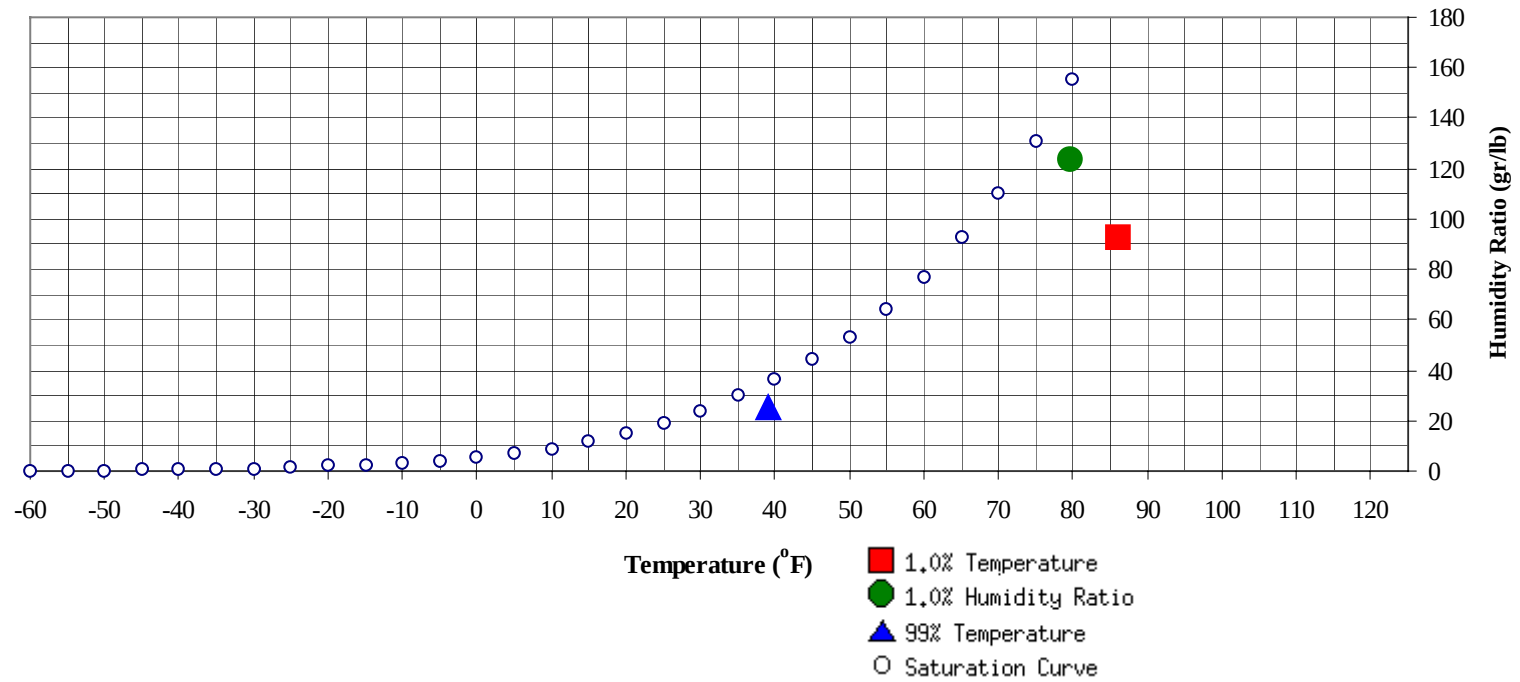


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

PREVEZA, GREECE

WMO No. 166430

Psychrometric Summary of Peak Design Values



	(°F)	MCHR	Enthalpy	1.0% Humidity Ratio	(gr/lb)	MCDB	MCWB	MC Dewpt	Enthalpy
		(gr/lb)	(btu/lb)			(°F)	(°F)	(°F)	(btu/lb)
99% Dry Bulb	39	25.2	13.2		123.9	79.6	75	73.4	38.5

1.0% Dry Bulb	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
	86	92.9	71.5	35.2

PREVEZA, GREECE

WMO No. 166430

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

Period of Record = 1973 to 1995

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															
75 / 79															
70 / 74		0		0		0	1	0	1	55.5		1	0	1	58.5
65 / 69	0	1		1	58.1	0	5	2	6	54.9	0	3	1	4	56.1
60 / 64	3	19	7	29	55.4	2	19	11	32	53.7	4	69	30	103	54.5
55 / 59	14	56	40	109	51.4	16	67	48	131	51.0	32	86	85	203	51.8
50 / 54	51	83	84	218	47.8	45	78	77	201	47.5	87	55	84	227	48.4
45 / 49	88	71	71	230	43.6	86	42	58	186	43.8	91	16	33	140	44.4
40 / 44	57	14	33	104	39.1	52	9	22	83	39.1	21	3	7	31	39.0
35 / 39	33	3	12	49	34.7	19	3	6	28	34.4	10	2	5	17	33.9
30 / 34	3	0	1	4	30.4	3	0	1	4	29.8	1	0	0	1	31.0
25 / 29	0			0	25.0			0	0	27.0					

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.

PREVEZA, GREECE

WMO No. 166430

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)

Period of Record = 1973 to 1995

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							0		0	67.3		2	0	2	68.7
85 / 89	0			0	78.0	0	1	0	1	66.8		6	2	8	68.5
80 / 84	0	0	0	0	63.3	0	7	2	9	65.5	1	45	11	57	69.5
75 / 79	1	2	0	3	60.0	1	34	10	45	66.3	15	106	56	177	68.5
70 / 74	1	15	5	20	58.7	13	81	45	139	63.9	67	72	106	245	66.2
65 / 69	5	41	17	63	58.0	37	73	66	176	61.6	88	8	51	147	63.9
60 / 64	19	109	71	198	56.0	94	45	91	230	58.9	60	1	13	74	60.6
55 / 59	88	57	105	250	53.3	79	7	33	118	55.3	9	0	1	10	56.1
50 / 54	95	14	37	146	49.9	23	0	2	25	51.1	0			0	50.7
45 / 49	29	2	5	36	45.3	1	0	0	1	46.2					
40 / 44	3	0	1	4	38.7										
35 / 39	0			0	38.0										
30 / 34															
25 / 29															

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PREVEZA, GREECE

WMO No. 166430

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)

Period of Record = 1973 to 1995

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							0		0	83.0					
95 / 99		1	0	1	74.0		1	0	1	67.9		0		0	66.0
90 / 94	0	13	2	14	71.9		12	1	13	70.2		1	0	1	69.1
85 / 89	0	35	7	43	71.9	0	46	10	57	72.3		9	1	10	69.1
80 / 84	7	122	53	182	71.8	7	130	67	204	72.1	1	67	16	84	70.1
75 / 79	60	69	108	236	70.3	69	52	109	230	70.7	11	110	78	199	68.6
70 / 74	119	7	67	194	68.1	125	6	55	186	68.3	85	43	104	232	66.6
65 / 69	48	1	9	59	65.1	39	0	5	43	64.8	92	8	31	130	63.9
60 / 64	13	0	1	14	61.1	9		1	10	60.7	45	2	9	57	60.1
55 / 59	1			1	56.9	0			0	56.5	6		1	7	54.6
50 / 54											0		0	0	46.0
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															

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WMO No. 166430

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)

Period of Record = 1973 to 1995

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	66.0										
85 / 89	0	1	0	1	64.4										
80 / 84	1	8	1	10	66.7		0		0	61.0					
75 / 79	1	51	13	65	65.8	0	1		1	65.3					
70 / 74	14	87	60	161	63.8	1	11	5	17	61.7			0	0	57.5
65 / 69	52	57	72	181	61.2	7	36	18	61	59.8	0	3	1	4	58.7
60 / 64	105	37	72	214	58.4	27	80	55	162	56.8	10	32	21	63	56.7
55 / 59	64	6	25	94	53.8	85	73	82	240	53.2	26	73	51	151	52.2
50 / 54	11	1	5	17	49.4	76	30	55	161	48.6	77	88	93	258	48.6
45 / 49	1	0	1	2	45.4	36	9	20	66	43.3	87	41	55	183	43.7
40 / 44						8	0	4	12	38.4	36	8	21	64	38.8
35 / 39						1		1	2	35.2	12	2	7	20	34.8
30 / 34											0			0	29.3
25 / 29															

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. 166430

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

Period of Record = 1973 to 1995

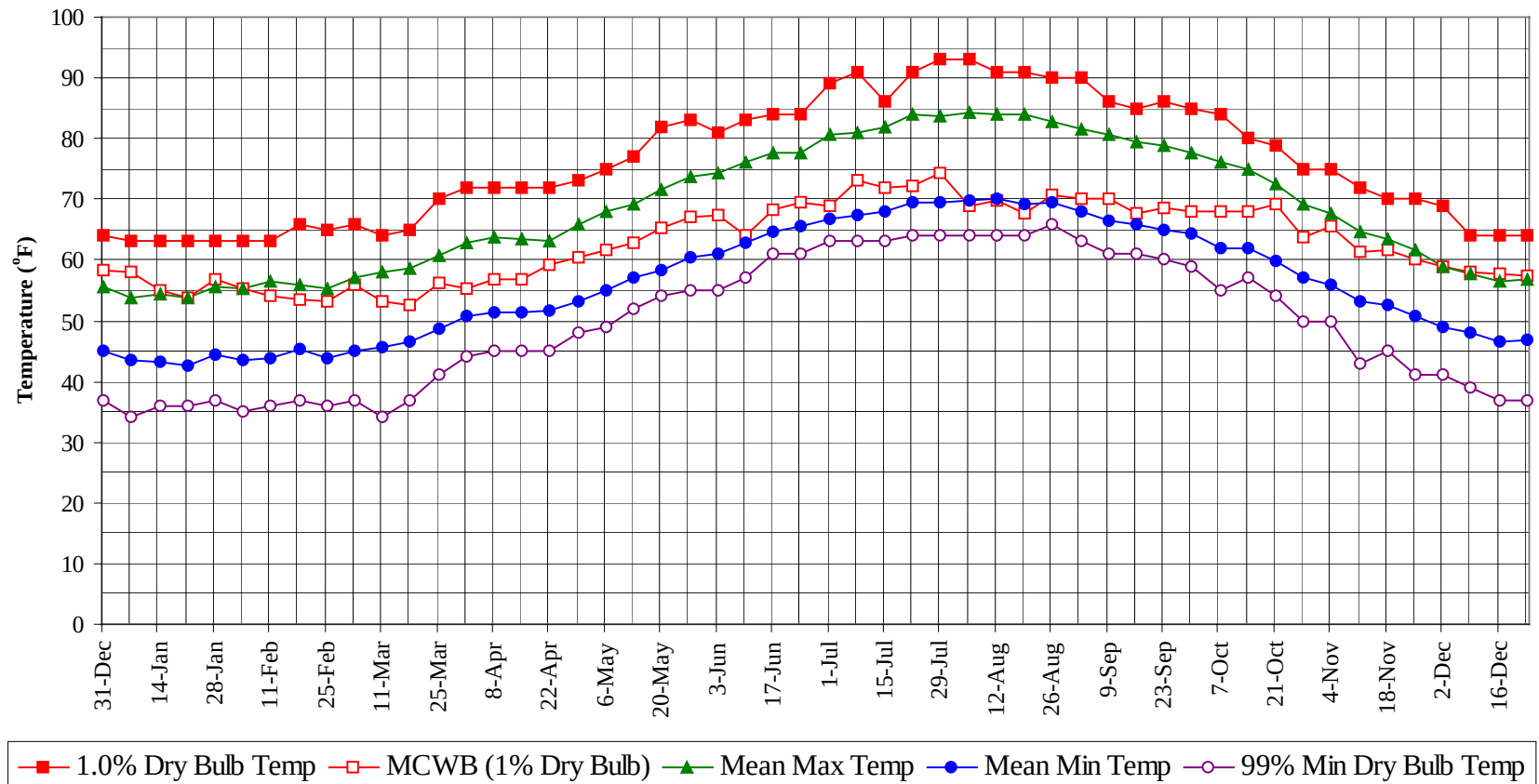
Annual Totals						
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	
	01 To 08	09 To 16	17 To 00			
100 / 104	0			0	83.0	
95 / 99	3			1	4	70.4
90 / 94	0	29	3	32	70.7	
85 / 89	1	100	20	122	71.5	
80 / 84	15	383	153	551	71.2	
75 / 79	160	431	379	970	69.2	
70 / 74	434	329	454	1217	66.1	
65 / 69	377	246	279	902	62.2	
60 / 64	396	411	382	1189	57.6	
55 / 59	418	419	467	1304	52.8	
50 / 54	458	344	431	1233	48.5	
45 / 49	409	178	237	824	43.8	
40 / 44	172	35	83	290	39.0	
35 / 39	72	10	29	111	34.6	
30 / 34	7	1	2	10	30.2	
25 / 29	0		0	0	26.0	

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PREVEZA, GREECE

WMO No. 166430

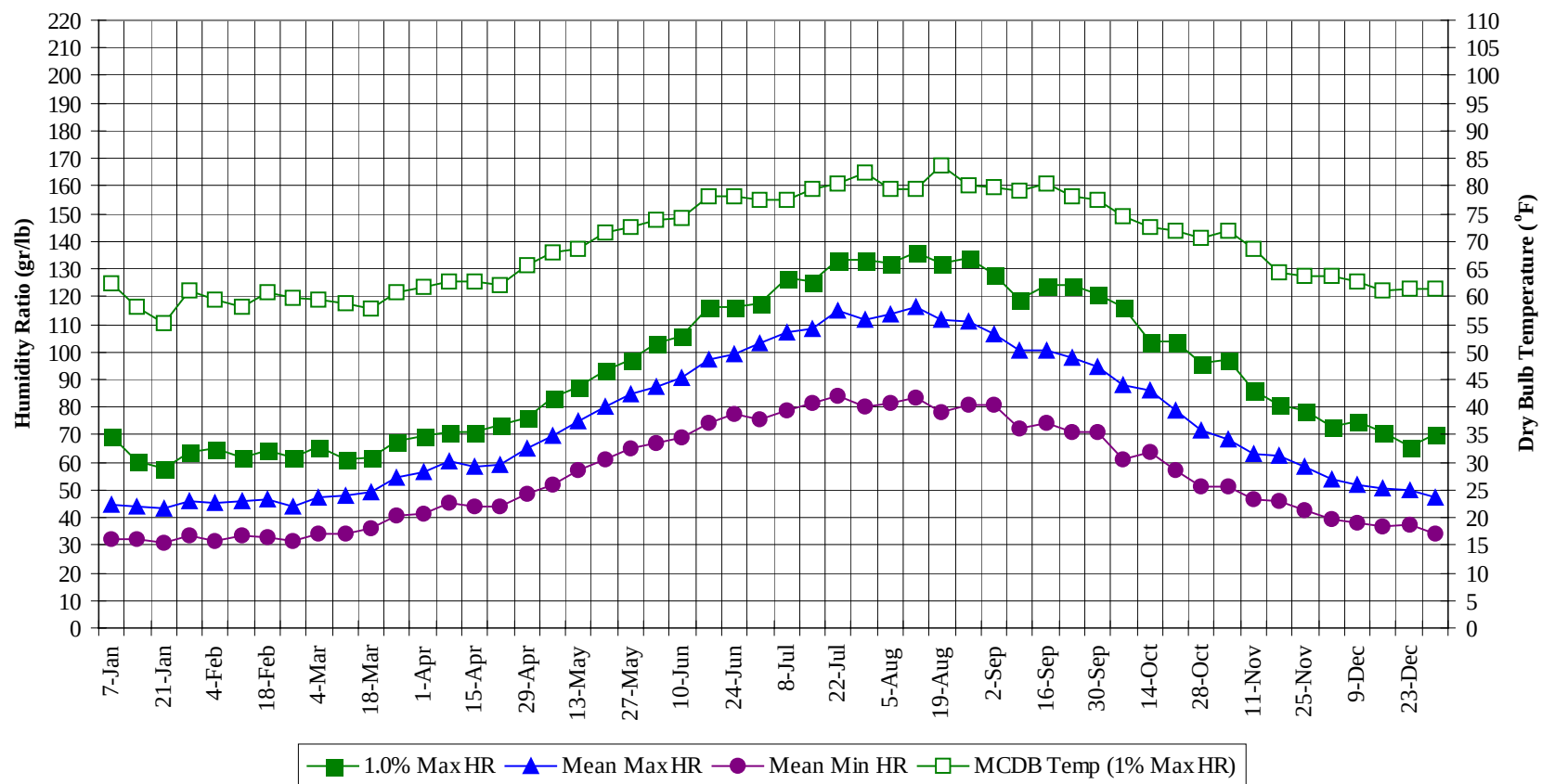
Annual Summary of Temperatures



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Long Term Humidity and Dry Bulb Temperature Summary



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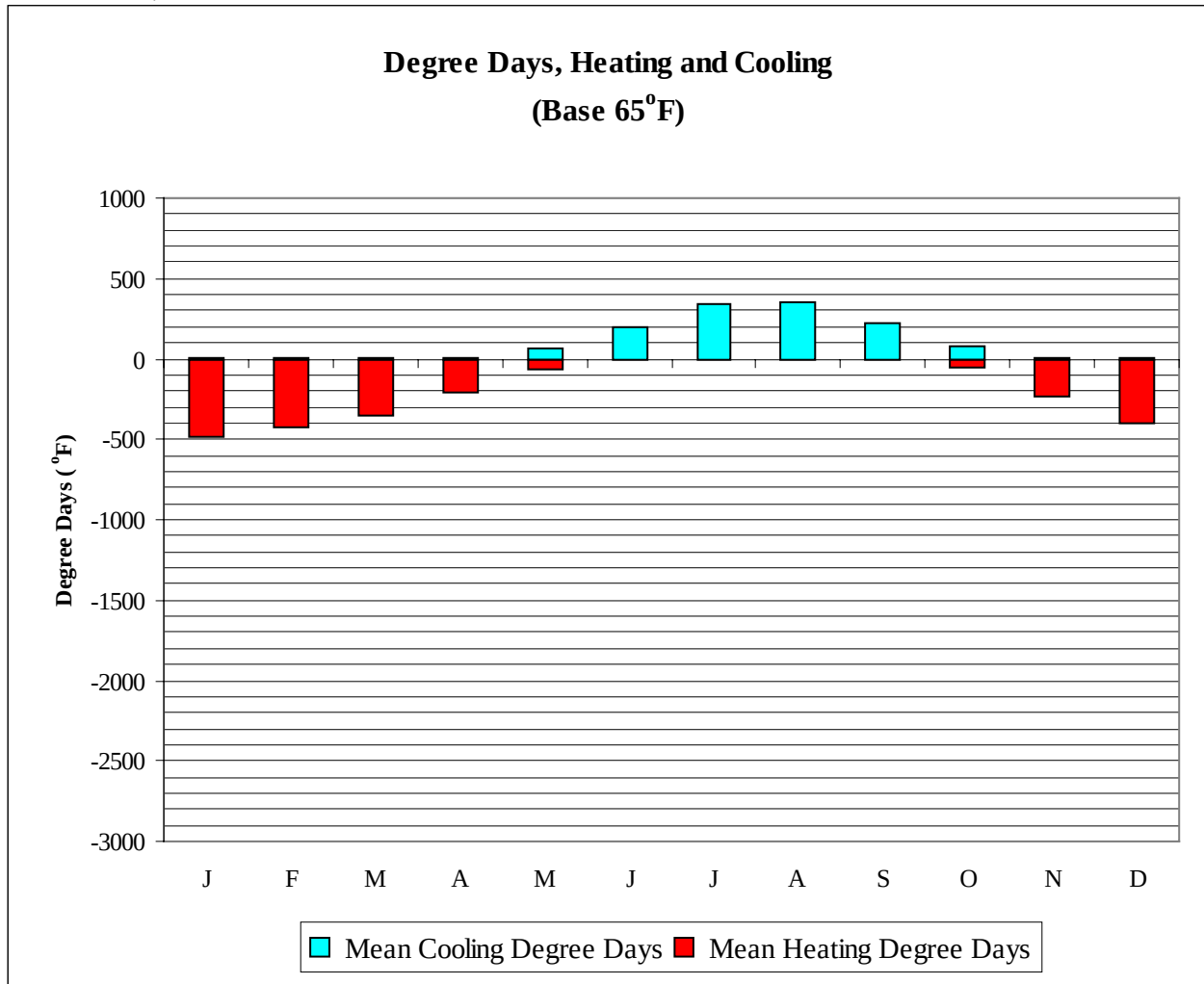
WMO No. 166430

Long Term Dry Bulb Temperature and Humidity Summary

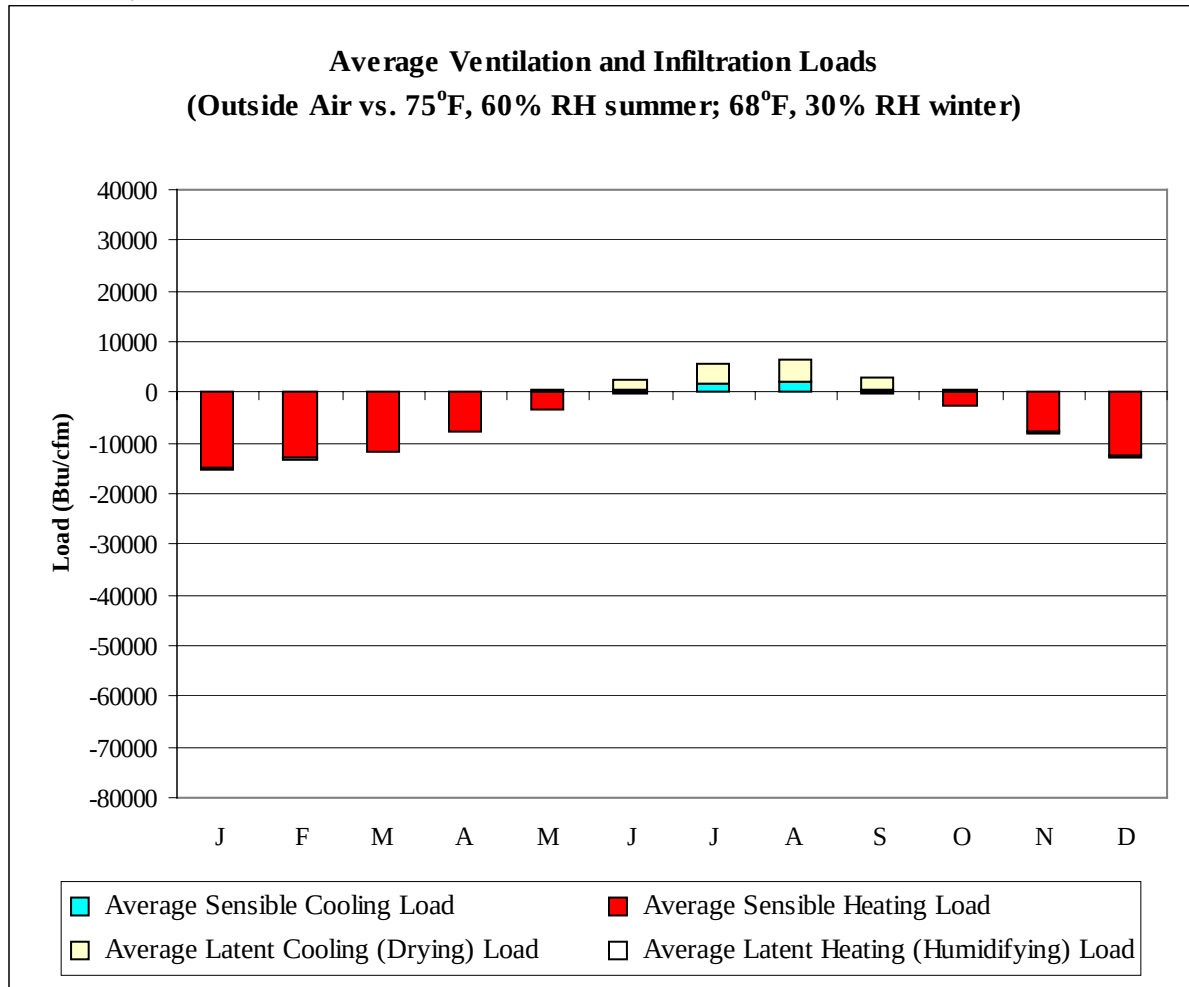
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	63.0	58.0	53.8	43.5	34.0	69.3	62.3	44.9	32.4
14-Jan	63.0	55.0	54.3	43.1	36.0	60.2	58.1	43.9	31.9
21-Jan	63.0	53.6	53.7	42.5	36.0	58.1	55.1	43.3	30.9
28-Jan	63.0	56.9	55.5	44.4	37.0	63.7	61.0	45.8	33.4
4-Feb	63.0	55.2	55.2	43.5	35.0	65.1	59.4	45.2	31.6
11-Feb	63.0	54.0	56.4	43.8	36.0	61.6	58.1	46.1	33.4
18-Feb	66.0	53.4	55.9	45.2	37.0	64.4	60.9	46.9	33.1
25-Feb	65.0	53.3	55.2	43.9	36.0	61.6	59.8	43.9	31.2
4-Mar	66.0	56.0	57.1	45.0	37.0	65.8	59.4	47.0	33.8
11-Mar	64.0	53.3	58.1	45.6	34.0	60.9	58.8	47.7	34.3
18-Mar	65.0	52.5	58.6	46.6	37.0	61.6	57.9	48.9	35.8
25-Mar	70.0	56.2	60.6	48.7	41.0	67.6	60.8	54.7	40.6
1-Apr	72.0	55.3	62.8	50.8	44.0	69.3	61.8	56.5	41.5
8-Apr	72.0	56.9	63.7	51.4	45.0	70.7	62.9	60.6	45.1
15-Apr	72.0	56.7	63.4	51.3	45.0	70.7	62.6	58.7	43.8
22-Apr	72.0	59.2	63.2	51.6	45.0	73.5	62.0	59.1	44.1
29-Apr	73.0	60.6	66.0	53.1	48.0	76.3	65.7	64.8	48.6
6-May	75.0	61.7	67.8	55.0	49.0	83.3	68.1	69.9	52.2
13-May	77.0	62.9	69.1	57.2	52.0	87.5	68.7	75.1	57.1
20-May	82.0	65.4	71.6	58.4	54.0	93.1	71.7	80.1	60.9
27-May	83.0	67.0	73.8	60.3	55.0	97.3	72.5	84.5	65.2
3-Jun	81.0	67.5	74.3	61.2	55.0	102.9	74.0	87.6	67.2
10-Jun	83.0	64.0	76.3	62.7	57.0	105.7	74.3	90.6	69.1
17-Jun	84.0	68.3	77.7	64.7	61.0	116.2	78.2	97.1	74.4
24-Jun	84.0	69.5	77.7	65.4	61.0	116.2	78.3	99.1	77.7
1-Jul	89.0	69.0	80.6	66.8	63.0	117.6	77.4	103.3	75.6
8-Jul	91.0	73.2	80.9	67.3	63.0	126.7	77.4	106.8	79.1
15-Jul	86.0	72.0	82.0	67.9	63.0	125.3	79.6	108.2	81.1
22-Jul	91.0	72.3	83.9	69.6	64.0	133.0	80.4	115.0	84.2
29-Jul	93.0	74.3	83.7	69.6	64.0	133.0	82.5	111.8	80.3
5-Aug	93.0	69.0	84.3	69.8	64.0	132.3	79.6	113.5	81.8
12-Aug	91.0	69.6	84.0	70.2	64.0	135.8	79.5	116.1	83.7
19-Aug	91.0	67.8	84.1	69.3	64.0	132.3	83.6	111.5	77.9
26-Aug	90.0	70.8	82.9	69.4	66.0	133.7	80.2	111.3	80.9
2-Sep	90.0	70.2	81.5	68.0	63.0	128.1	79.8	106.2	80.7
9-Sep	86.0	70.2	80.5	66.6	61.0	119.0	79.1	100.5	72.2
16-Sep	85.0	67.8	79.5	65.8	61.0	123.9	80.5	100.2	74.2
23-Sep	86.0	68.6	78.9	64.9	60.0	123.9	78.1	97.7	71.0
30-Sep	85.0	68.0	77.7	64.5	59.0	121.1	77.3	94.9	70.8
7-Oct	84.0	67.8	76.0	62.1	55.0	116.2	74.4	87.7	61.4
14-Oct	80.0	68.0	74.9	62.1	57.0	103.6	72.5	86.2	63.8
21-Oct	79.0	69.1	72.5	59.9	54.0	103.6	71.8	78.9	57.3
28-Oct	75.0	63.8	69.1	57.2	50.0	95.9	70.6	71.4	51.5
4-Nov	75.0	65.5	67.6	56.0	50.0	97.3	72.0	68.6	51.4
11-Nov	72.0	61.4	64.7	53.2	43.0	86.1	68.5	62.9	46.9
18-Nov	70.0	61.6	63.4	52.5	45.0	80.5	64.5	62.6	46.3
25-Nov	70.0	60.2	61.6	50.9	41.0	79.1	63.8	58.3	42.9
2-Dec	69.0	59.0	59.1	48.9	41.0	72.8	63.6	53.6	39.4
9-Dec	64.0	58.0	57.9	48.0	39.0	74.9	62.8	52.1	38.2
16-Dec	64.0	57.8	56.5	46.7	37.0	70.7	61.2	50.7	36.8
23-Dec	64.0	57.4	56.8	46.9	37.0	65.8	61.4	50.1	37.4
31-Dec	64.0	58.4	55.7	45.0	37.0	70.0	61.5	47.4	34.2

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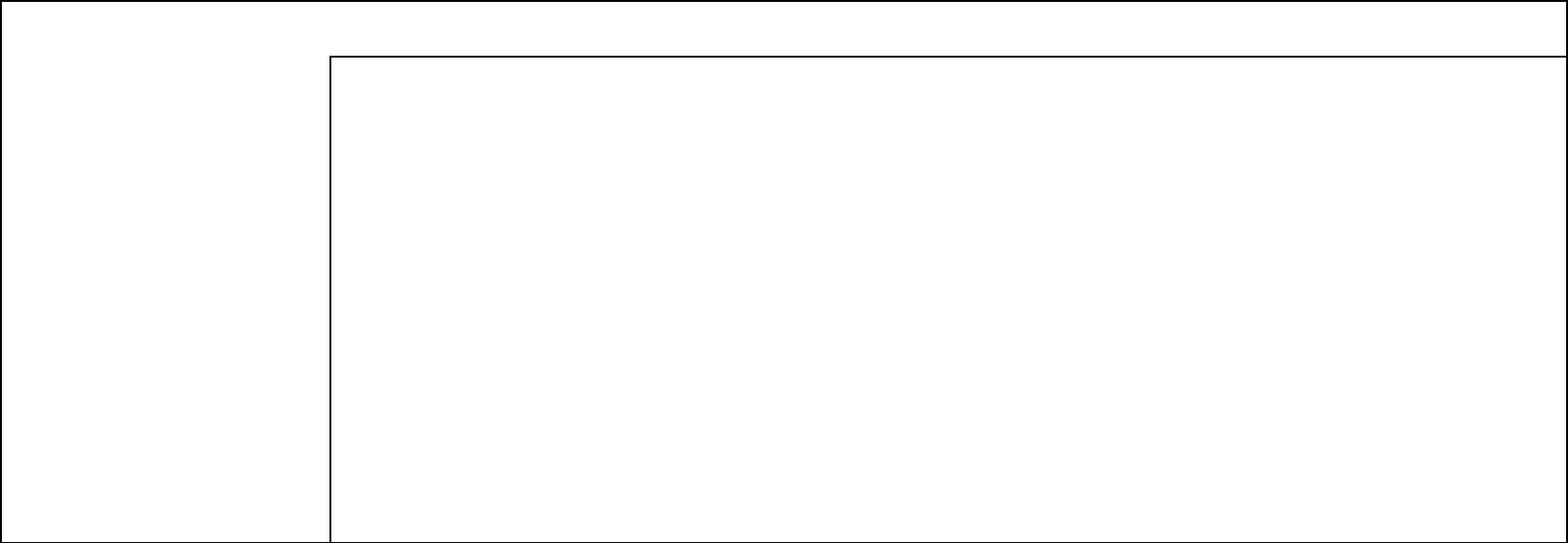
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	490
FEB	0	422
MAR	2	358
APR	6	210
MAY	60	61
JUN	202	5
JUL	336	1
AUG	358	0
SEP	221	4
OCT	79	50
NOV	5	231
DEC	0	407
ANN	1269	2239



	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	-14841	0	-349
FEB	0	-12962	0	-306
MAR	1	-11572	0	-175
APR	3	-7746	4	-30
MAY	65	-3226	361	0
JUN	433	-452	1899	0
JUL	1685	-64	4121	0
AUG	2110	-38	4435	0
SEP	627	-324	2441	-1
OCT	93	-2438	627	-10
NOV	1	-7934	28	-117
DEC	0	-12681	0	-236
ANN	5018	-74278	13916	-1224

Average Annual Solar Radiation – Nearest Available Site
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

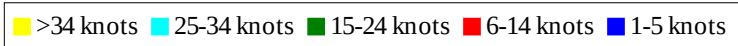
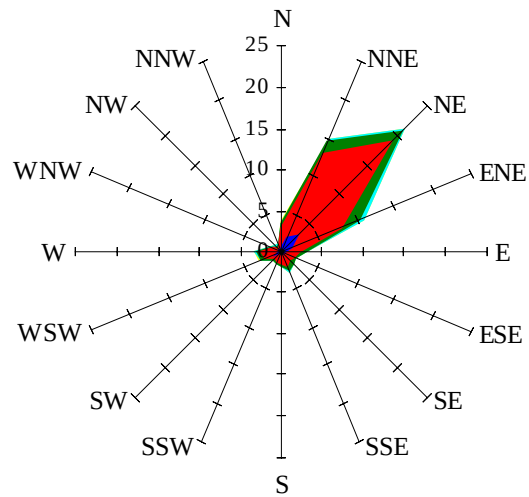


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

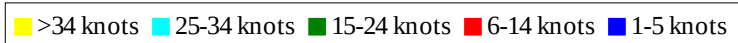
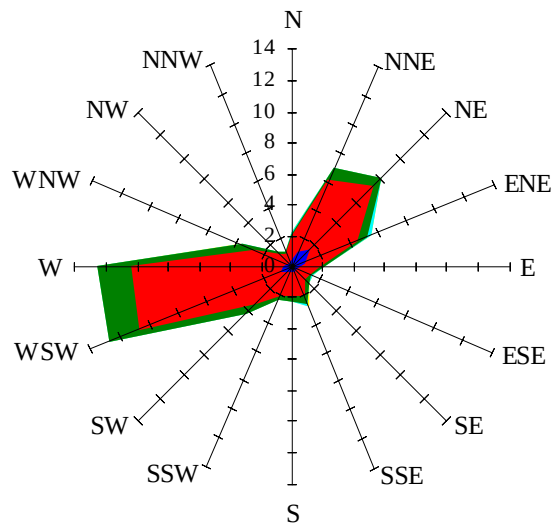
Labels of Percent Frequency on North Axis



Percent Calm = 26.30

Wind Summary - March, April, and May

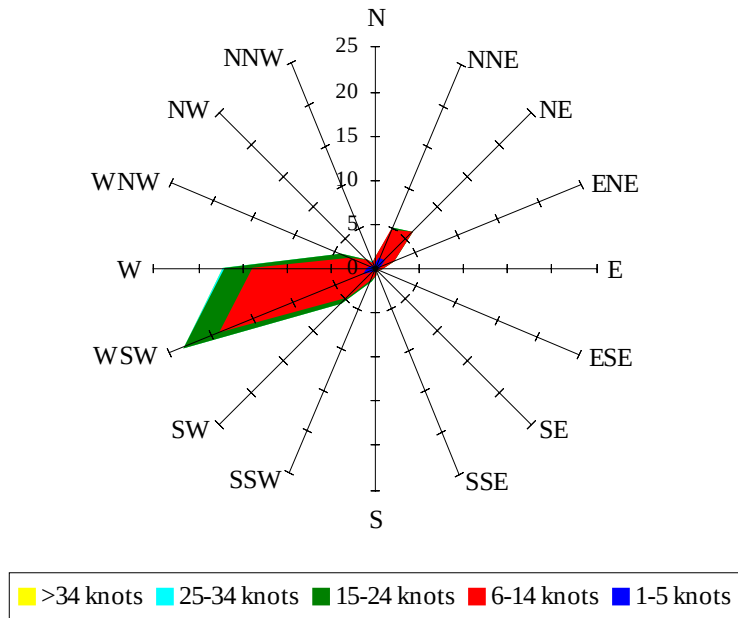
Labels of Percent Frequency on North Axis



Percent Calm = 30.74

Wind Summary - June, July, and August

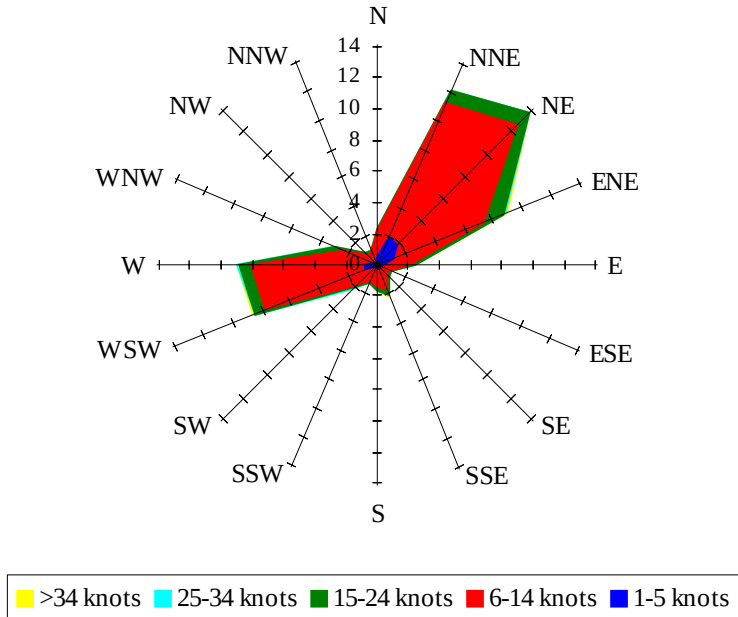
Labels of Percent Frequency on North Axis



Percent Calm = 30.79

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 28.73