

MERCURY/DESERT ROCK NV

Latitude = 36.62 N

WMO No. 723870

Longitude = 116.00 W

Elevation = 3311 feet

Period of Record = 1978 to 1996

Average Pressure = 26.56 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	107	66	45	13.2	SW
0.4% Occurrence	103	65	44	12.8	SW
1.0% Occurrence	101	65	44	13.2	SW
2.0% Occurrence	99	64	43	13.2	SW
Mean Daily Range	24	-	-	-	-
97.5% Occurrence	32	27	17	7.2	NE
99.0% Occurrence	28	24	13	7.1	NE
99.6% Occurrence	25	21	11	7.3	NE
Median of Extreme Lows	21	17	9	7.1	NE
	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	72	90	97	10.4	SW
0.4% Occurrence	69	91	81	10.6	SW
1.0% Occurrence	68	91	76	10.7	SW
2.0% Occurrence	66	90	67	10.7	SW
	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	112	73	0.67	5.6	SE
0.4% Occurrence	98	73	0.58	8.3	ESE
1.0% Occurrence	88	77	0.52	8.3	ESE
2.0% Occurrence	78	81	0.47	9.2	ESE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		471	1586	1	134

Other Site Data

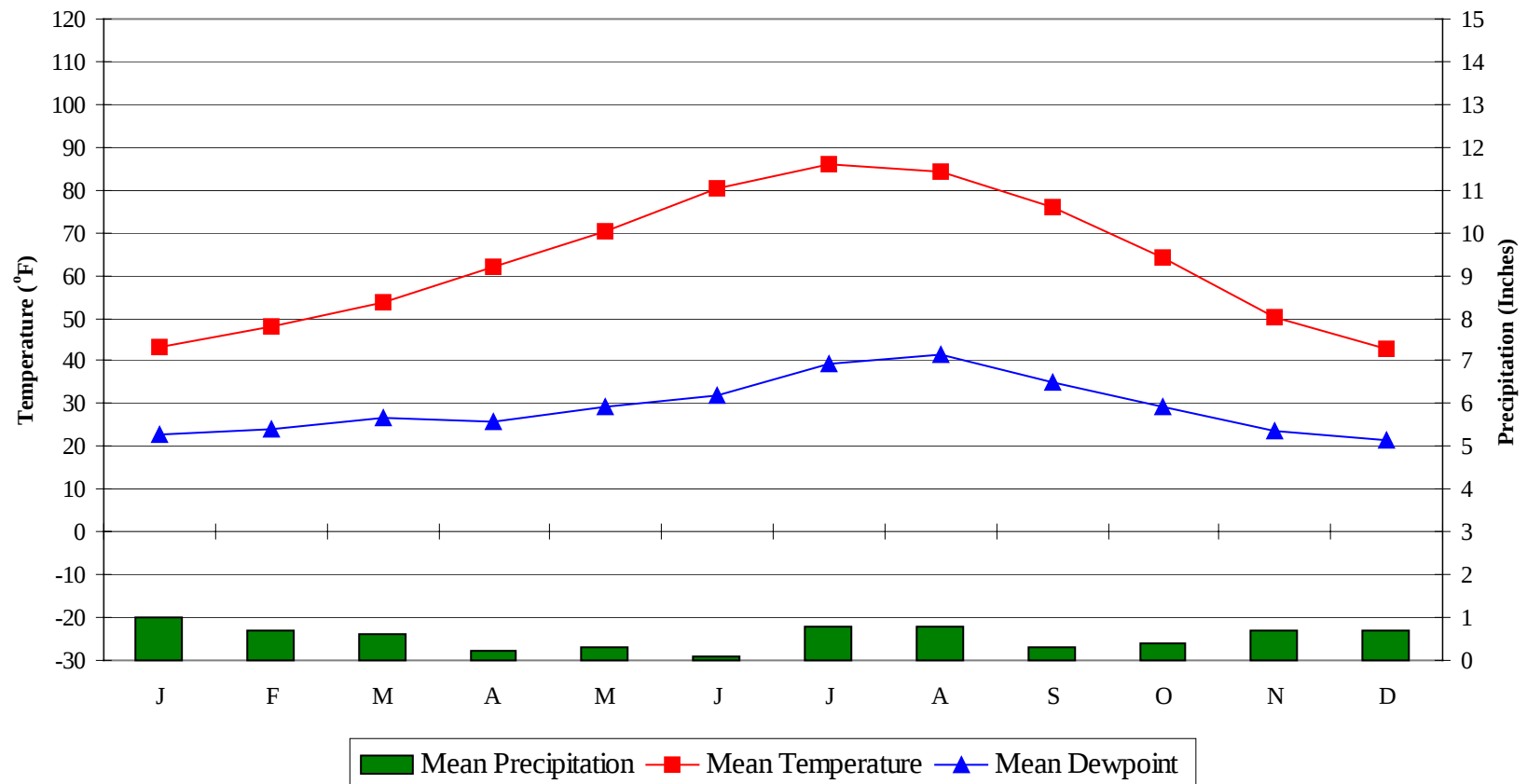
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
8	1.3	90	0.0 + 2.3
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
66.0	N/A	N/A	25

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

MERCURY/DESERT ROCK NV

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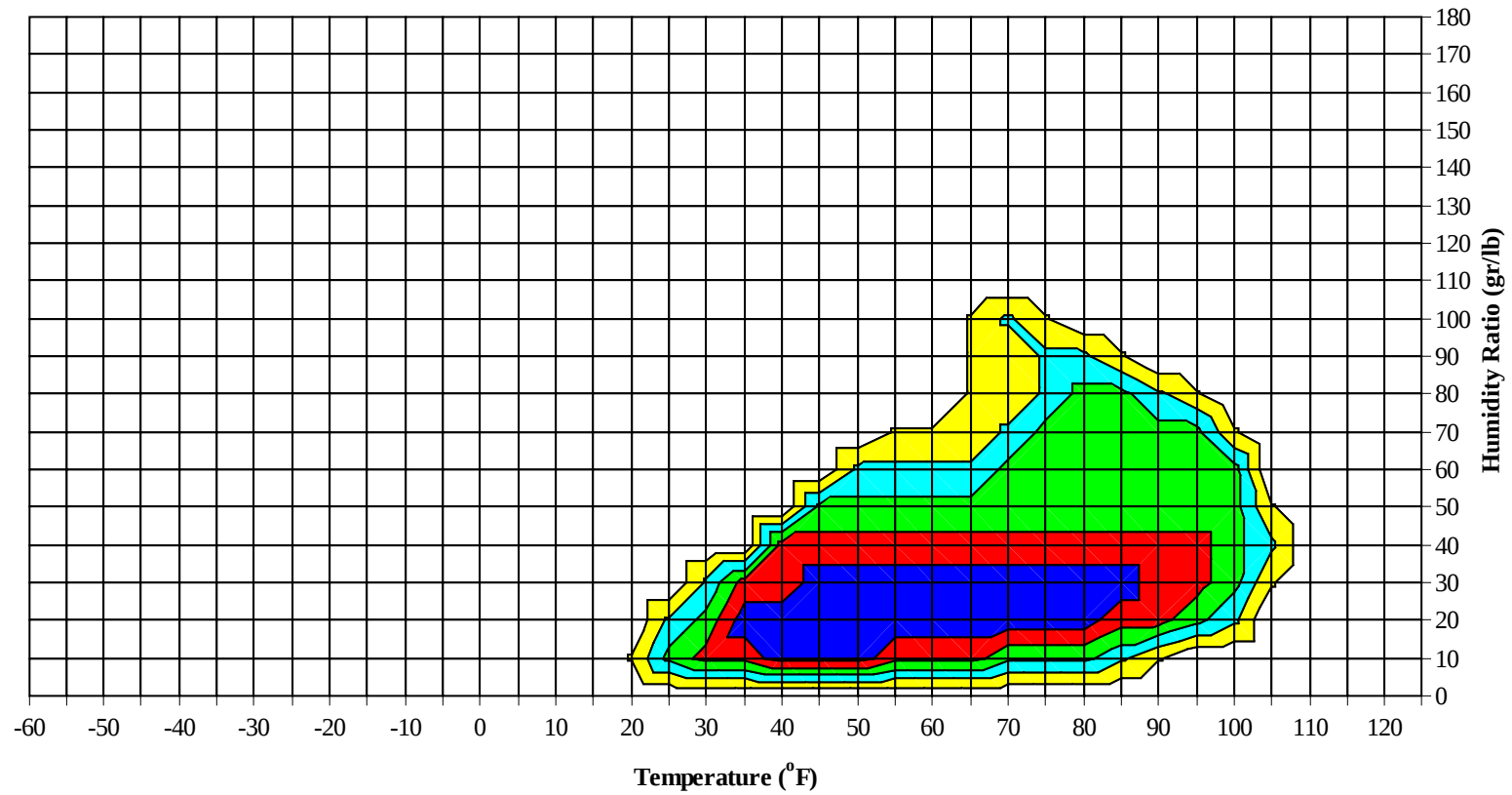
Average Annual Climate



MERCURY/DESERT ROCK NV

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Long Term Psychrometric Summary

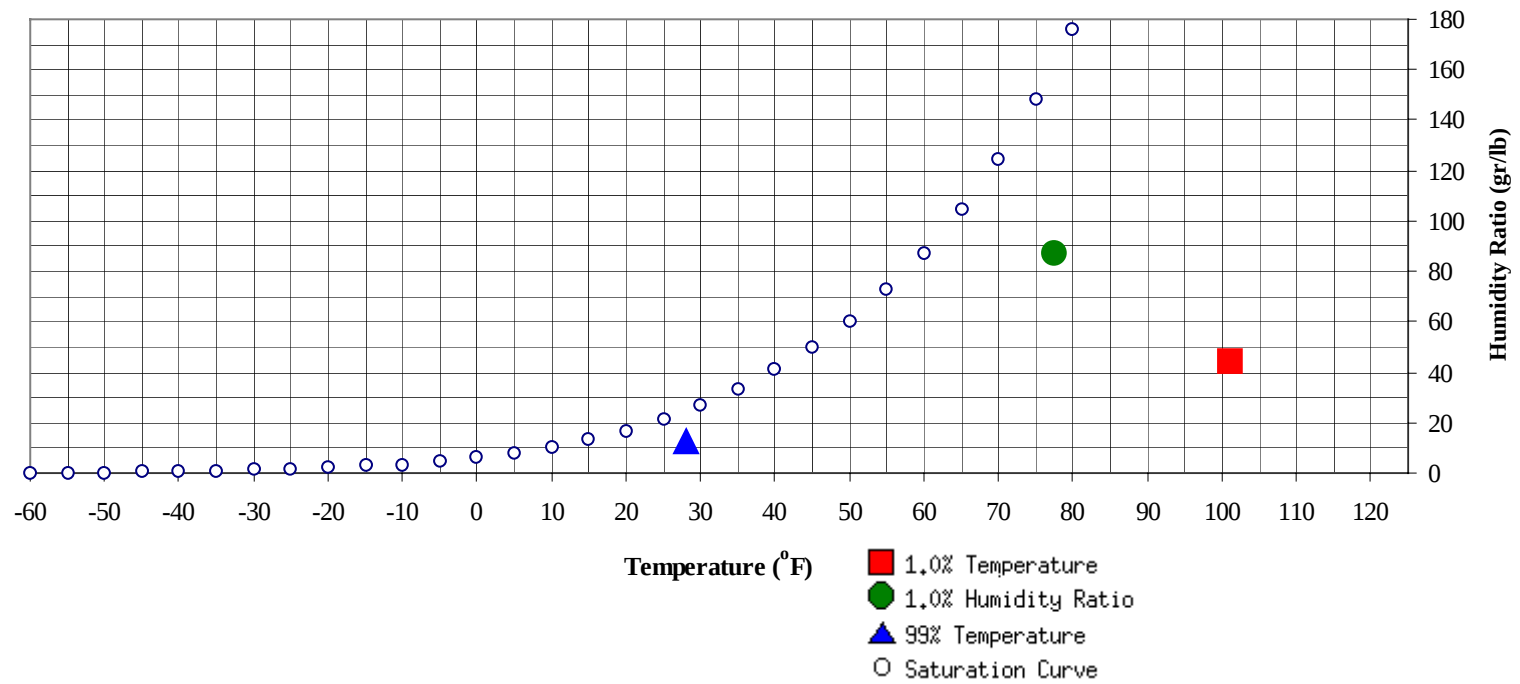


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

MERCURY/DESERT ROCK NV

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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	28	12.7	8.7		87.5	77.4	65.7	60.1	32.3

	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
1.0% Dry Bulb	101	44.1	64.6	31.2

MERCURY/DESERT ROCK NV

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

Period of Record = 1978 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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84						1	1	0	2	59.5		3	0	3	52.3
75 / 79						1	3	1	5	52.5		17	3	20	51.1
70 / 74	0	1	0	1	51.1	1	15	2	18	49.2	0	30	9	39	49.7
65 / 69	1	11	0	12	46.3	0	26	7	33	46.7	3	41	21	65	47.5
60 / 64	0	26	4	30	44.2	2	33	13	48	44.9	10	52	34	96	45.7
55 / 59	1	39	10	50	42.0	7	38	26	71	43.0	25	45	43	112	43.5
50 / 54	6	56	31	93	40.1	22	42	46	110	41.0	41	34	59	134	41.5
45 / 49	26	53	49	128	37.9	45	33	52	129	38.2	65	17	45	126	39.1
40 / 44	50	39	66	155	35.2	59	18	40	117	34.9	60	8	23	90	35.6
35 / 39	78	17	57	151	31.8	46	9	21	76	31.7	31	3	9	43	32.1
30 / 34	61	6	24	91	27.9	27	5	10	43	27.6	12	0	2	14	28.3
25 / 29	18	1	6	25	22.8	9	2	3	14	23.1	2		0	2	24.5
20 / 24	7		1	8	19.2	3	0	1	4	18.6					
15 / 19	0			0	17.0	1	0	1	2	13.7					
10 / 14						1			1	9.5					
5 / 9															

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.

MERCURY/DESERT ROCK NV

WMO No. 723870

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

Period of Record = 1978 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		
110 / 114												0		0	69.2
105 / 109												3	1	4	66.9
100 / 104												18	4	22	63.4
95 / 99						0	9	2	11	59.3	1	44	17	63	61.7
90 / 94	0	3	0	3	60.3	0	19	6	25	58.6	3	53	27	84	59.3
85 / 89	0	16	3	19	56.3	1	44	15	61	56.7	11	50	42	103	57.2
80 / 84	0	26	9	36	53.5	5	53	31	89	54.5	26	33	46	105	55.4
75 / 79	2	33	16	52	51.5	16	41	42	99	52.5	38	21	43	102	53.4
70 / 74	7	48	28	83	49.4	31	33	43	108	50.9	56	10	31	97	51.1
65 / 69	18	43	40	101	47.3	41	24	42	107	48.8	52	5	18	75	49.1
60 / 64	29	30	43	102	45.2	56	15	31	102	46.6	32	2	6	40	47.0
55 / 59	44	23	42	109	43.2	49	7	19	75	44.1	13	1	3	17	44.9
50 / 54	65	12	35	112	41.1	26	2	11	39	42.0	5	0	1	6	43.1
45 / 49	46	5	16	68	38.6	16	2	4	22	40.0	2	0	1	3	42.3
40 / 44	21	1	5	27	35.6	6		1	7	37.9	0			0	38.0
35 / 39	7	0	1	8	31.3	1		0	1	35.7					
30 / 34	1			1	28.3										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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WMO No. 723870

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

Period of Record = 1978 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		
110 / 114		0		0	65.0										
105 / 109		9	2	11	65.9		4	0	4	66.3					
100 / 104		46	12	58	64.7		31	6	37	65.3	0	3	0	3	64.9
95 / 99	0	70	33	103	62.9	0	66	23	89	63.8	0	24	3	27	62.6
90 / 94	9	66	49	124	61.1	7	76	43	126	61.8	0	54	14	68	60.5
85 / 89	27	32	56	115	59.9	19	42	53	114	60.6	2	55	27	84	58.5
80 / 84	53	15	49	117	58.5	45	18	52	115	59.1	12	45	42	100	56.8
75 / 79	65	6	29	100	56.7	63	6	39	108	57.9	28	28	45	102	54.9
70 / 74	55	2	13	70	54.6	62	3	23	88	56.2	48	16	48	113	53.0
65 / 69	31	1	4	36	53.0	36	2	9	47	53.9	59	9	34	102	50.5
60 / 64	7	0	1	8	49.9	14	0	1	15	48.0	50	4	18	72	47.9
55 / 59	1	0		1	48.8	2			2	45.6	27	1	7	35	45.5
50 / 54	0			0	41.0						9	0	2	11	43.2
45 / 49											3		0	3	40.4
40 / 44											0			0	35.0
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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MERCURY/DESERT ROCK NV

WMO No. 723870

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

Period of Record = 1978 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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94	0	12	1	13	58.9										
85 / 89	0	20	3	23	56.6										
80 / 84	0	42	8	50	54.5	1	1		2	57.7					
75 / 79	3	50	17	70	52.9	0	9	0	9	52.4					
70 / 74	9	44	33	86	51.0	0	22	2	24	49.9					
65 / 69	23	33	48	104	49.0	1	34	9	44	47.7		7	0	7	45.2
60 / 64	47	20	52	119	47.0	5	41	20	66	45.9	0	21	0	21	43.6
55 / 59	58	13	42	113	44.8	16	45	36	97	43.4	0	44	5	49	42.1
50 / 54	55	8	27	90	42.0	37	41	47	125	40.4	5	61	27	93	40.2
45 / 49	31	3	13	47	38.4	54	26	49	130	37.5	27	57	56	140	38.0
40 / 44	15	1	4	20	34.4	52	15	38	106	34.0	50	31	62	143	34.9
35 / 39	6		1	7	30.1	44	5	26	76	30.8	73	17	57	146	31.4
30 / 34	1		0	1	28.1	23	1	11	35	27.3	55	6	29	90	27.3
25 / 29						6	0	1	7	24.5	26	3	9	38	23.0
20 / 24						1	0		1	19.6	10	1	3	14	18.4
15 / 19											1	0	1	2	12.9
10 / 14											1		0	1	8.6
5 / 9											0			0	5.0

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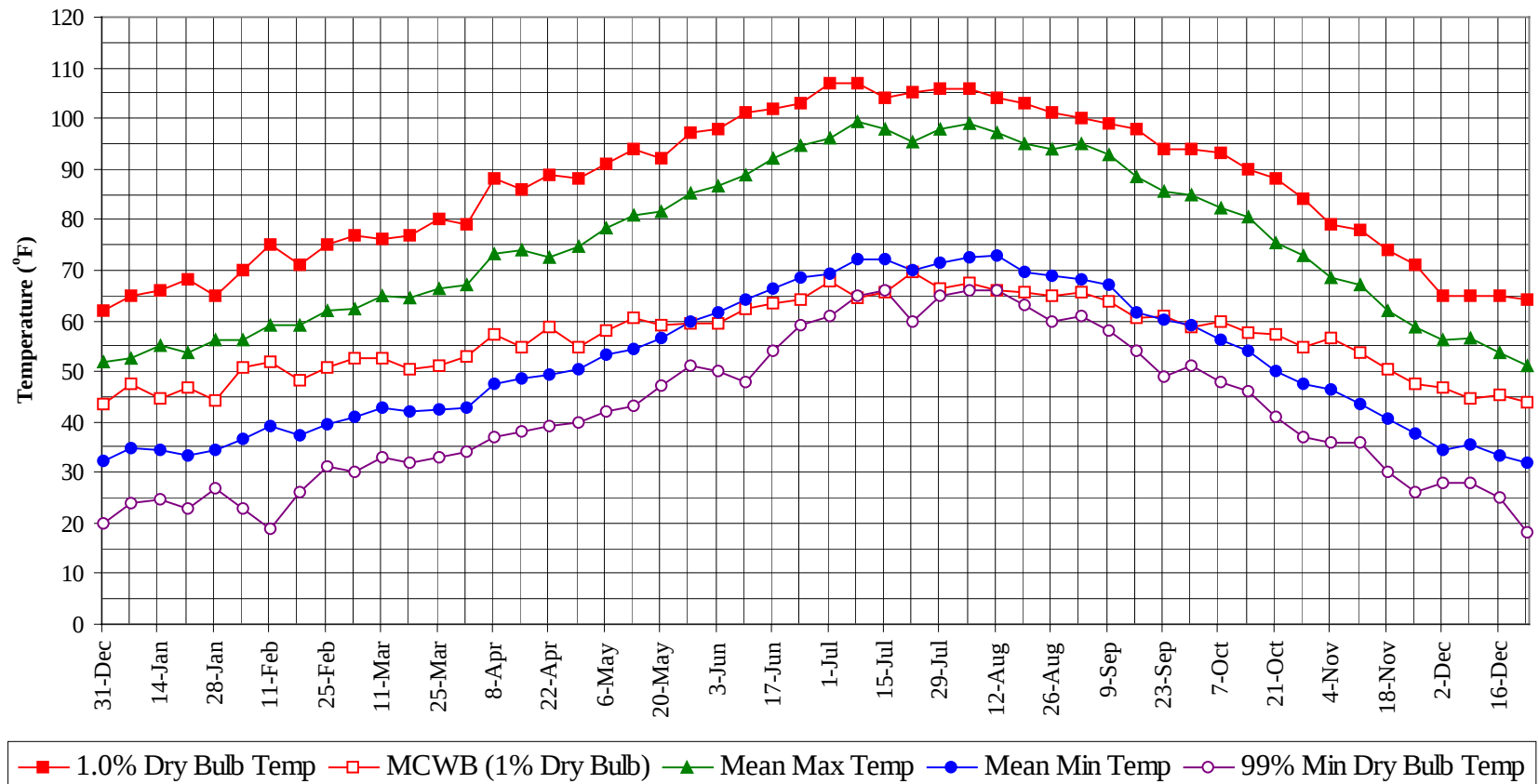
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1978 to 1996

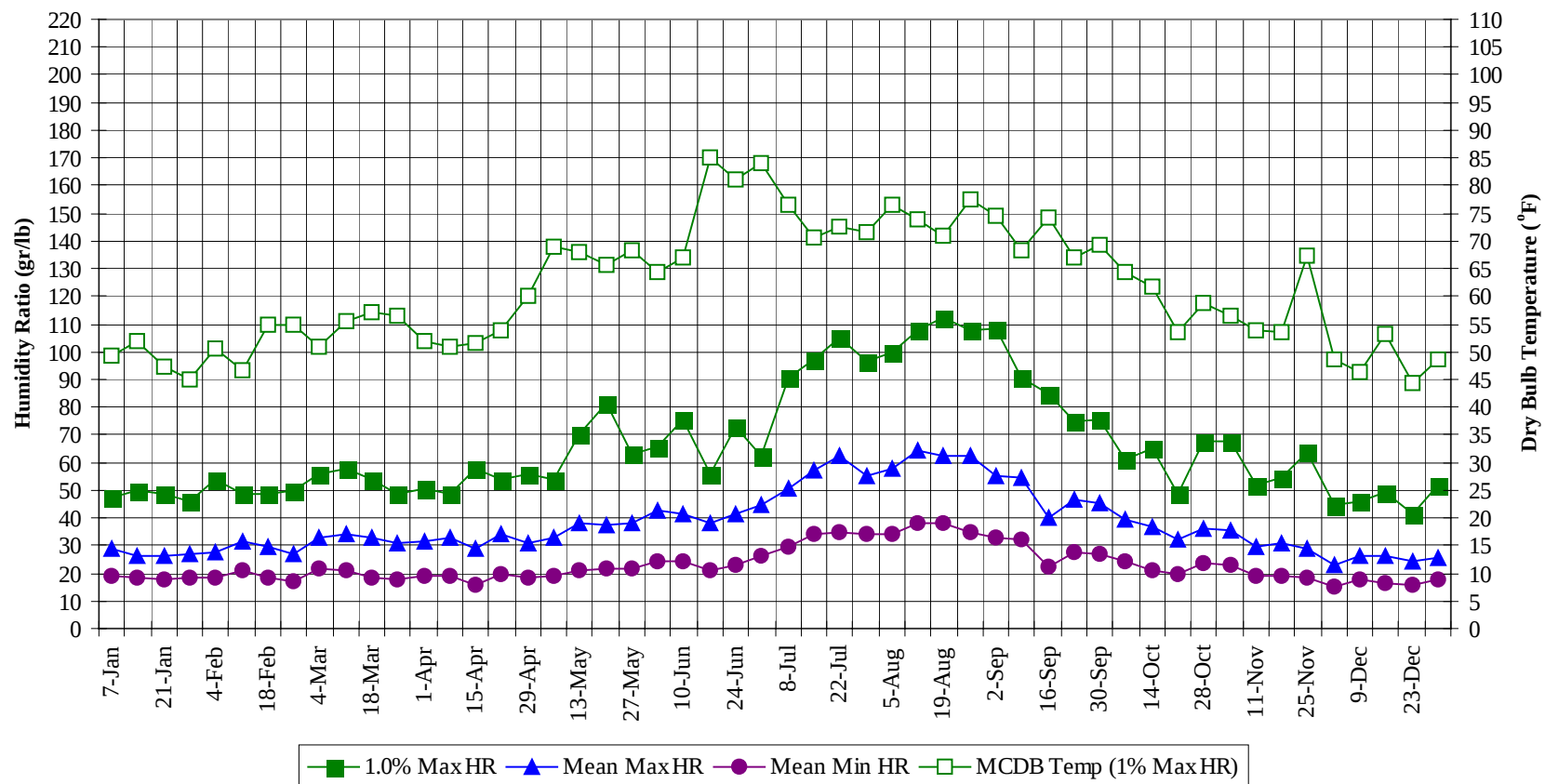
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
110 / 114	1			1	67.8
105 / 109	17			3	20
100 / 104	0	96	23	120	64.7
95 / 99	1	211	79	292	62.8
90 / 94	20	281	142	443	60.7
85 / 89	59	259	202	520	58.7
80 / 84	143	238	241	622	56.6
75 / 79	215	212	238	666	54.5
70 / 74	269	225	234	728	52.0
65 / 69	264	235	231	730	49.1
60 / 64	252	244	224	720	46.2
55 / 59	242	257	232	731	43.6
50 / 54	270	260	282	812	41.0
45 / 49	317	197	281	795	38.3
40 / 44	314	112	238	664	35.0
35 / 39	288	50	170	507	31.5

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

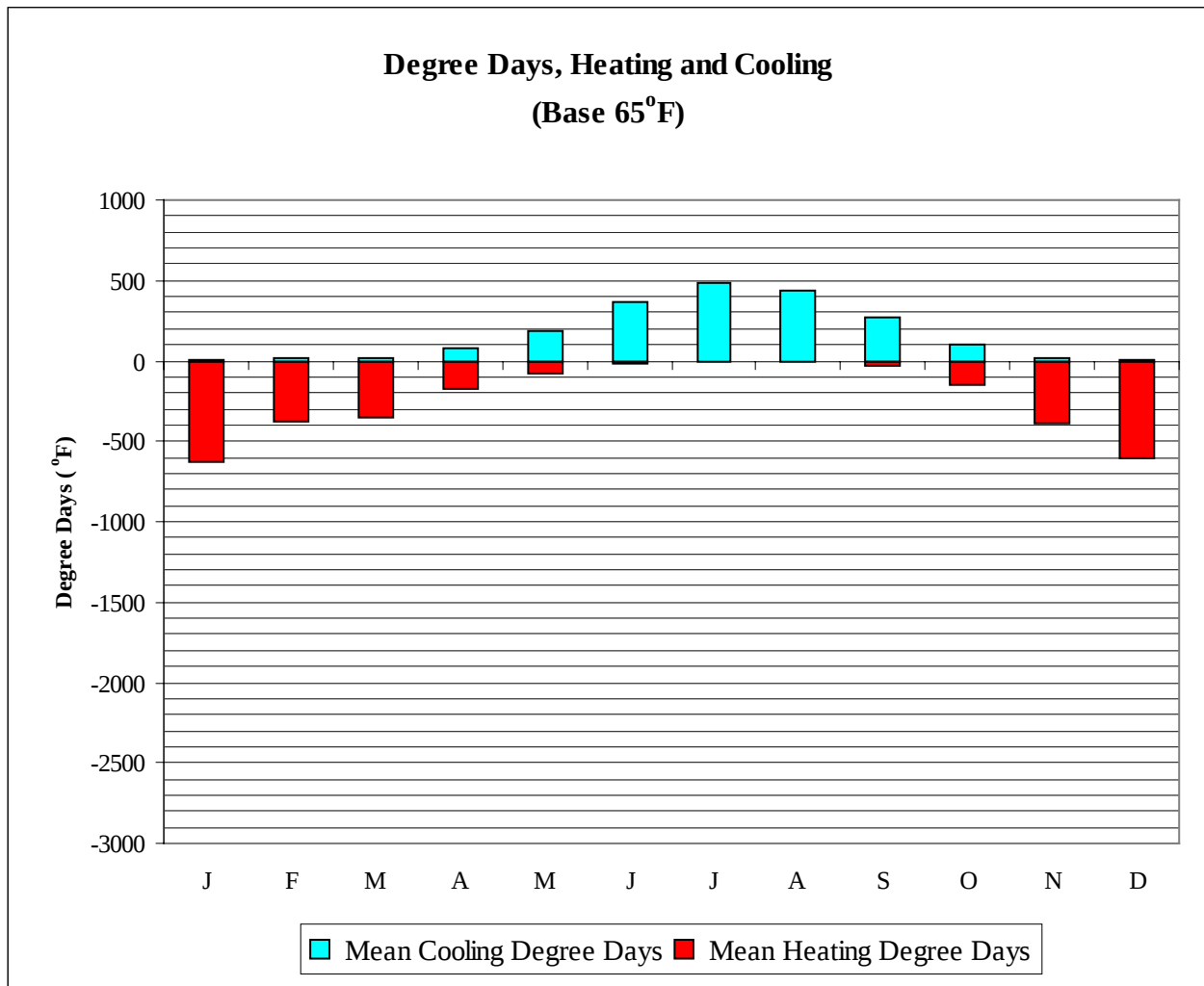


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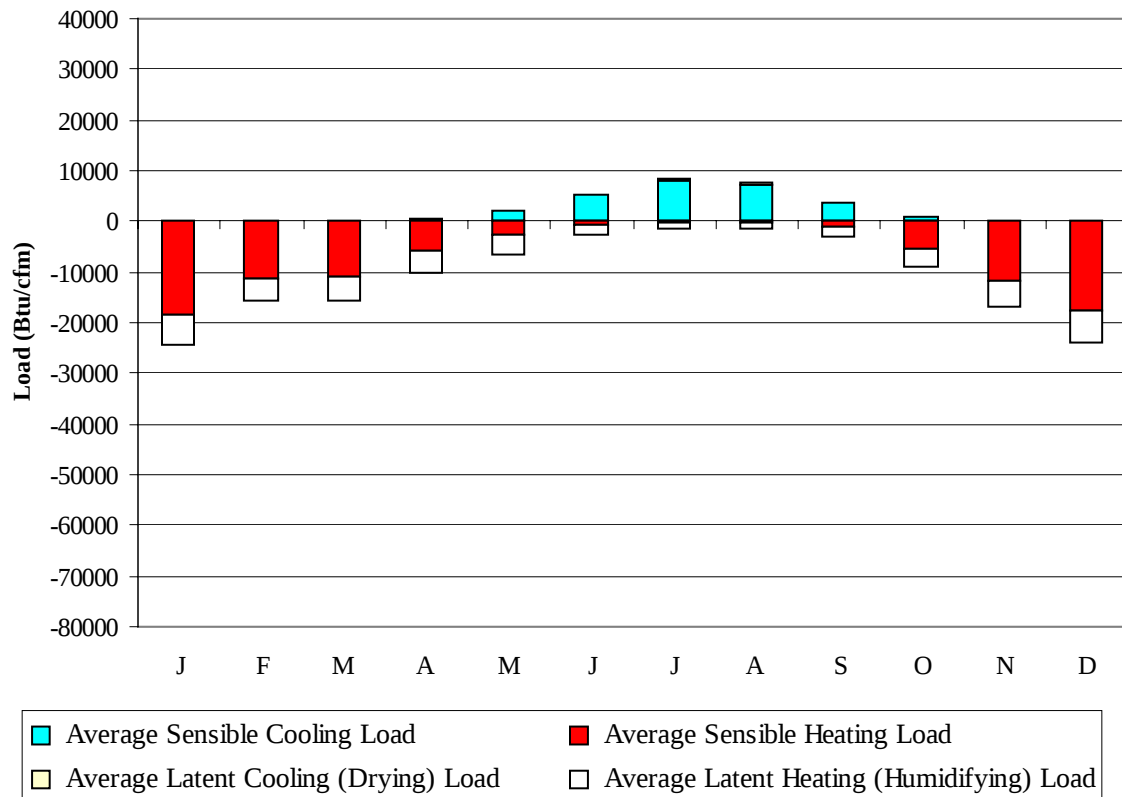
Long Term Dry Bulb Temperature and Humidity Summary

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	65.0	47.5	52.7	34.7	24.0	47.6	49.1	28.7	19.1
14-Jan	66.0	44.7	55.1	34.5	24.5	49.7	51.8	26.3	18.2
21-Jan	68.0	46.7	53.7	33.4	23.0	48.3	47.1	26.0	17.5
28-Jan	65.0	44.2	56.1	34.6	27.0	46.2	45.1	26.9	18.4
4-Feb	70.0	50.8	56.1	36.8	23.0	53.9	50.6	27.9	18.5
11-Feb	75.0	51.8	59.0	39.2	19.0	48.3	46.8	31.5	21.3
18-Feb	71.0	48.3	59.1	37.3	26.0	48.3	54.7	29.5	18.5
25-Feb	75.0	50.9	62.1	39.6	31.0	49.7	55.0	26.7	17.0
4-Mar	77.0	52.4	62.3	41.0	30.0	56.0	51.0	32.5	21.4
11-Mar	76.0	52.4	64.9	42.6	33.0	58.1	55.6	34.4	21.1
18-Mar	77.0	50.3	64.7	42.0	32.0	53.9	57.0	32.6	18.6
25-Mar	80.0	51.0	66.3	42.5	33.0	48.3	56.6	30.9	18.0
1-Apr	79.0	52.9	67.0	42.8	34.0	50.4	52.0	31.5	19.0
8-Apr	88.0	57.4	73.3	47.6	37.0	48.3	50.9	32.7	18.9
15-Apr	86.0	54.7	74.1	48.5	38.0	58.1	51.7	28.8	16.0
22-Apr	89.0	58.8	72.7	49.2	39.0	53.9	53.9	33.9	19.5
29-Apr	88.0	54.9	74.7	50.6	40.0	56.0	60.3	31.1	18.5
6-May	91.0	58.2	78.3	53.1	42.0	53.9	68.9	33.0	18.9
13-May	94.0	60.6	80.7	54.5	43.0	70.0	68.1	37.8	21.3
20-May	92.0	59.1	81.6	56.5	47.0	81.2	65.8	37.2	21.5
27-May	97.0	59.4	85.1	59.8	51.0	63.0	68.4	38.3	21.8
3-Jun	98.0	59.6	86.7	61.7	50.0	65.8	64.4	42.8	24.6
10-Jun	101.0	62.3	88.9	64.2	48.0	75.6	66.8	41.3	24.3
17-Jun	102.0	63.5	92.0	66.5	54.0	56.0	84.9	37.9	21.2
24-Jun	103.0	64.0	94.5	68.7	59.0	72.8	81.2	41.1	22.8
1-Jul	107.0	67.7	96.2	69.4	61.0	62.3	84.1	44.4	26.0
8-Jul	107.0	64.4	99.3	72.2	65.0	90.3	76.6	50.6	29.4
15-Jul	104.0	65.5	97.8	72.2	66.0	97.3	70.7	57.3	33.9
22-Jul	105.0	69.6	95.4	69.9	60.0	105.0	72.5	62.1	35.1
29-Jul	106.0	66.3	98.1	71.5	65.0	96.6	71.5	55.4	33.8
5-Aug	106.0	67.4	99.2	72.4	66.0	100.1	76.4	57.6	34.0
12-Aug	104.0	65.8	97.3	72.9	66.0	107.8	74.0	64.6	38.2
19-Aug	103.0	65.6	94.9	69.7	63.0	112.0	70.8	62.3	38.3
26-Aug	101.0	65.1	93.8	68.7	60.0	107.8	77.6	62.5	35.1
2-Sep	100.0	65.7	95.1	68.0	61.0</				



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	2	624
FEB	15	377
MAR	20	348
APR	77	168
MAY	183	74
JUN	367	12
JUL	480	1
AUG	436	2
SEP	265	24
OCT	101	149
NOV	12	387
DEC	0	605
ANN	1959	2771

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	-18431	1	-5964
FEB	79	-11393	2	-4240
MAR	49	-10979	0	-4606
APR	597	-5679	0	-4438
MAY	2133	-2756	0	-3753
JUN	5136	-522	1	-2209
JUL	8210	-78	121	-1485
AUG	7117	-130	327	-1259
SEP	3507	-1061	5	-2124
OCT	971	-5206	0	-3909
NOV	42	-11862	0	-5006
DEC	0	-17795	0	-5964
ANN	27841	-85892	457	-44957

Average Annual Solar Radiation – Nearest Available Site

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

City: LAS VEGAS
 State: NV
 WBAN No: 23169
 Lat(N): 36.08
 Long(W): 115.17
 Elev(ft): 2179

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 1.123
 Vert Gap: 0.659

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	950	1270	1710	2190	2480	2650	2490	2280	1950	1500	1070	870	1790
	Std Dev	79	88	103	109	82	83	118	131	102	68	58	61	48
	Minimum	730	1090	1510	1920	2280	2490	2090	1900	1700	1280	950	690	1660
	Maximum	1080	1420	1910	2340	2630	2820	2650	2480	2110	1620	1170	960	1840
	Diffuse	300	400	520	590	640	610	650	570	450	360	310	260	470
Clear Day	Global	1100	1470	1950	2420	2700	2800	2710	2460	2070	1590	1180	1000	1960
NORTH	Global	230	300	380	480	620	740	670	510	390	310	250	210	420
	Diffuse	230	300	380	450	510	530	520	460	390	310	250	210	380
Clear Day	Global	210	260	340	440	610	740	670	480	360	290	220	190	400
EAST	Global	660	830	1080	1310	1420	1480	1400	1340	1200	970	730	610	1090
	Diffuse	280	370	470	570	610	620	610	570	480	380	310	260	460
Clear Day	Global	810	1010	1260	1450	1540	1560	1530	1440	1290	1060	840	730	1210
SOUTH	Global	1600	1610	1490	1230	940	810	840	1070	1430	1690	1650	1580	1330
	Diffuse	400	470	540	560	550	540	540	530	510	460	420	370	490
Clear Day	Global	2070	2060	1810	1340	960	810	860	1150	1600	1950	2060	2030	1550
WEST	Global	660	830	1040	1260	1370	1450	1370	1280	1170	960	710	600	1060
	Diffuse	290	370	490	580	630	630	630	570	490	390	310	260	470
Clear Day	Global	810	1010	1260	1450	1540	1560	1530	1440	1290	1060	840	730	1210

Average Annual Solar Heat and Illumination – Nearest Available Site

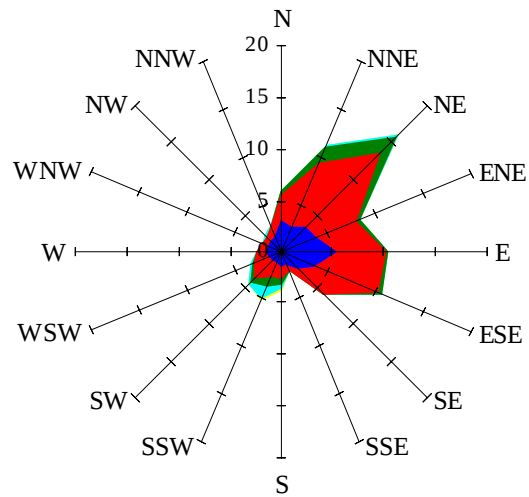
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	620	880	1220	1600	1820	1960	1830	1670	1410	1050	720	560	1280
NORTH	Unshaded	160	210	260	320	390	450	420	330	270	220	170	140	280
	Shaded	140	180	230	280	340	390	360	290	240	190	150	120	240
EAST	Unshaded	460	580	770	940	1020	1060	1000	960	860	690	510	420	770
	Shaded	380	470	610	720	770	800	760	740	670	560	430	350	610
SOUTH	Unshaded	1200	1170	1010	760	540	450	480	640	930	1200	1230	1190	900
	Shaded	1140	920	460	330	340	330	330	320	330	790	1110	1160	630
WEST	Unshaded	450	580	740	910	980	1040	980	920	840	680	500	410	750
	Shaded	380	470	590	710	750	790	750	710	660	550	420	350	590

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	53	83	90	67	22	58	94	110	100	67
	M.Cloudy	40	67	70	51	16	46	81	97	84	52
NORTH	M.Clear	11	15	15	13	7	18	16	16	16	16
	M.Cloudy	12	17	18	15	7	18	18	19	19	16
EAST	M.Clear	82	51	15	13	7	87	68	21	16	13
	M.Cloudy	51	41	18	15	7	59	59	23	19	15
SOUTH	M.Clear	49	76	82	61	21	12	30	42	34	13
	M.Cloudy	33	57	60	42	12	14	30	41	33	15
WEST	M.Clear	11	15	35	78	65	12	16	16	63	87
	M.Cloudy	12	17	30	52	31	14	18	19	54	60
M.Clear	(% hrs)	55	54	49	45	48	80	78	76	72	72
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	40	79	94	82	45	26	52	54	30	0
	M.Cloudy	29	62	76	63	32	19	39	41	23	0
NORTH	M.Clear	10	14	16	15	10	7	11	11	8	0
	M.Cloudy	10	17	19	17	11	7	12	13	8	0
EAST	M.Clear	81	68	19	15	10	56	36	11		

Wind Summary - December, January, and February

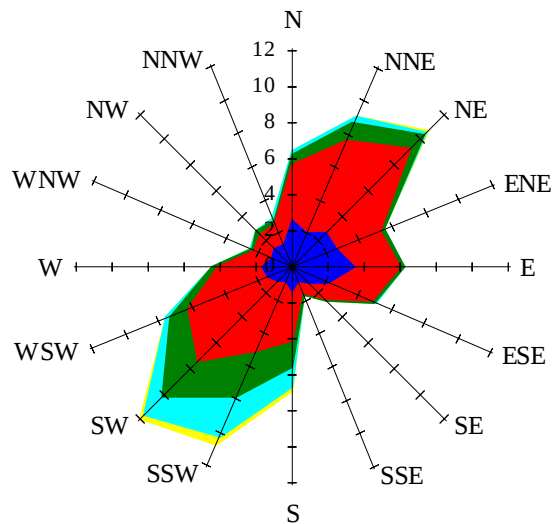
Labels of Percent Frequency on North Axis



Percent Calm = 5.31

Wind Summary - March, April, and May

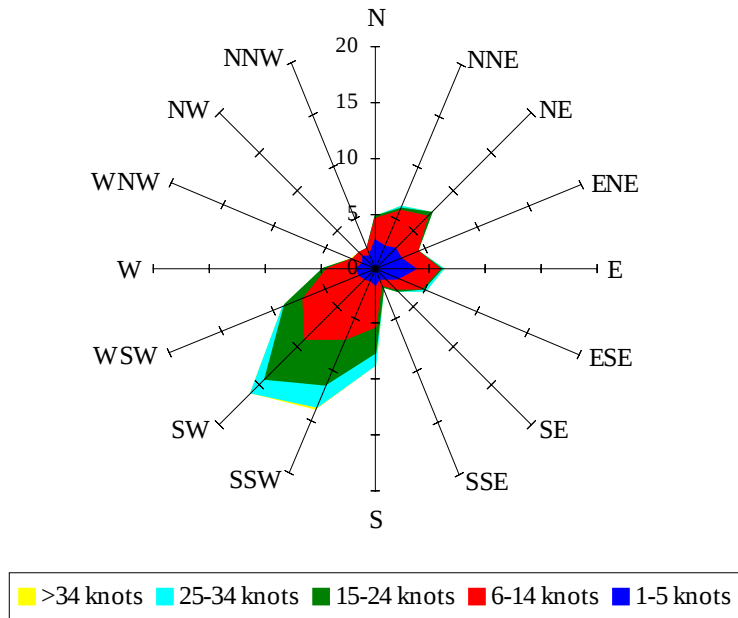
Labels of Percent Frequency on North Axis



Percent Calm = 3.91

Wind Summary - June, July, and August

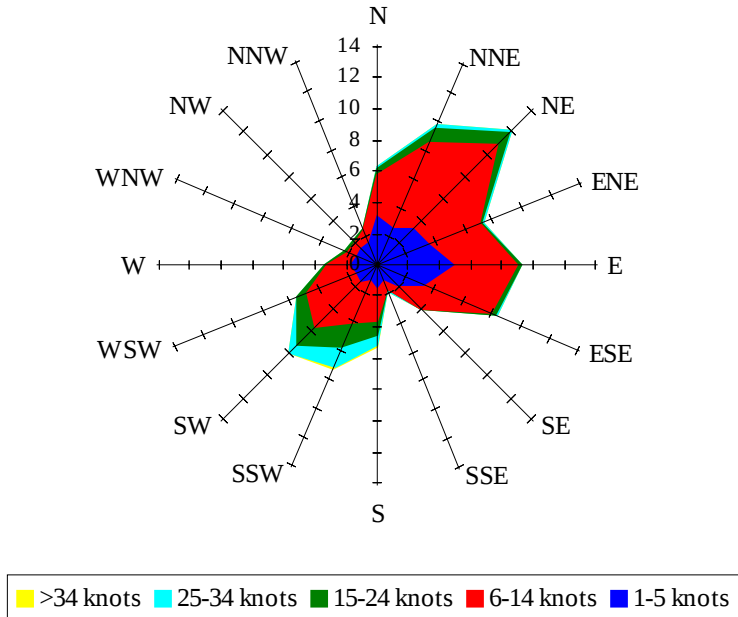
Labels of Percent Frequency on North Axis



Percent Calm = 4.36

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 5.83