

NELLIS AFB, NV	Station ID = ICAO_KLSV
Latitude = 36.24 N	Elevation = 1869 Feet
Longitude = 115.03 W	Average Pressure = 27.97 inches Hg
Period of Record = 1989 To 2018	

Design Criteria Data

	Mean Coincident (Average) Values				
Dry Bulb Temperature (T)	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	113	68	37	10.5	S
0.4% Occurrence	109	67	40	10.4	S
1.0% Occurrence	107	66	40	10.8	SSW
2.0% Occurrence	105	66	40	10.8	SSW
Mean Daily Range	24	-	-	-	VRB
97.5% Occurrence	36	30	17	4.1	VRB
99.0% Occurrence	32	27	14	3.1	VRB
99.6% Occurrence	28	23	11	3.1	VRB
Median of Extreme Lows	23	19	7	3	N

	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T _{wb})					
Median of Extreme Highs	75	97	99	9.4	VRB
0.4% Occurrence	73	95	91	9	VRB
1.0% Occurrence	71	95	81	8.8	VRB
2.0% Occurrence	70	95	76	8.8	S

	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)					
Median of Extreme Highs	127	78	0.79	6.8	NE
0.4% Occurrence	103	81	0.64	7.5	VRB
1.0% Occurrence	95	83	0.6	7.5	VRB
2.0% Occurrence	86	87	0.54	8.3	VRB

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	1252	2917	40	667

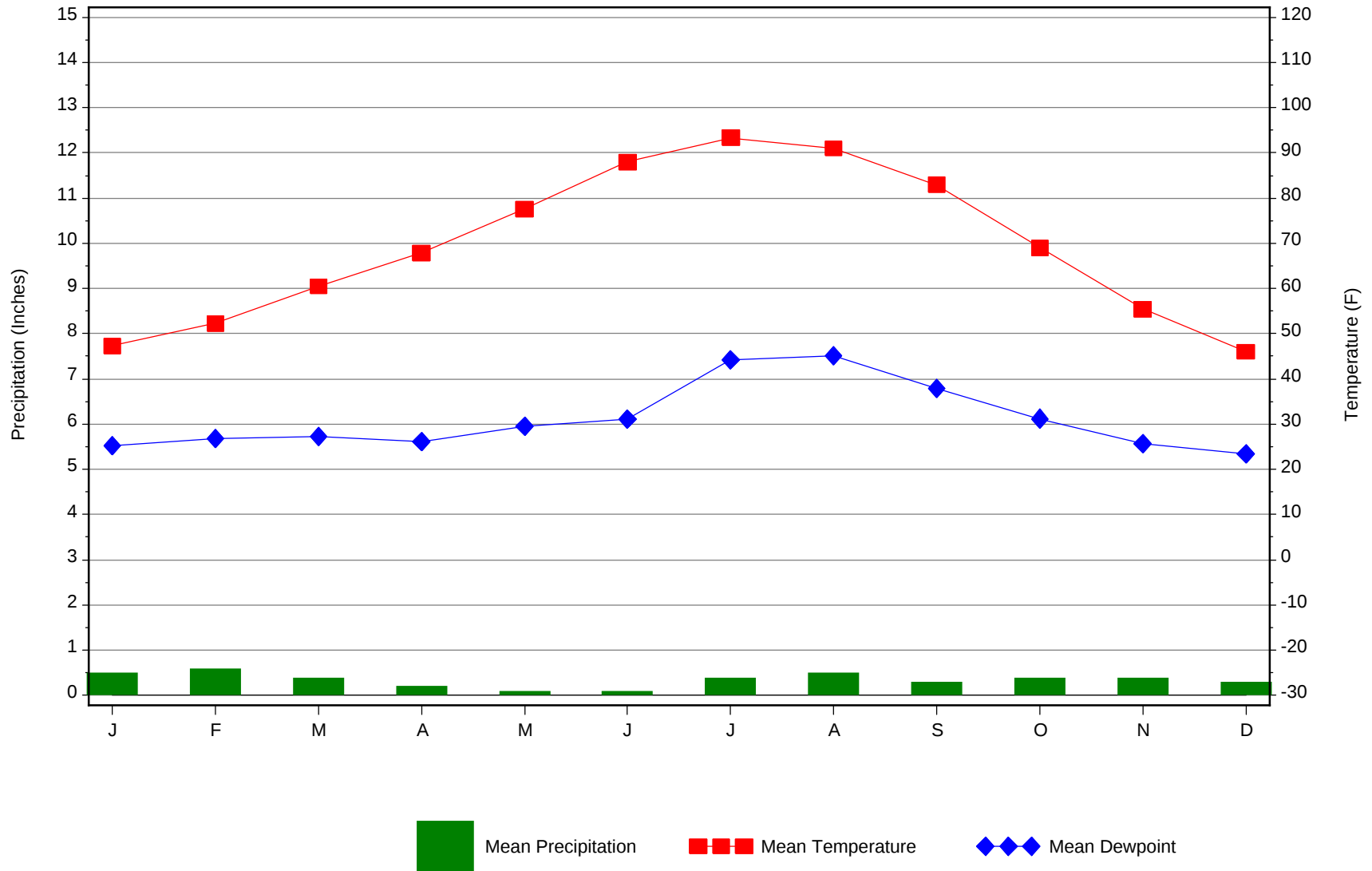
Other Site Data

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	1.5	90	0.1 + 4.5
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 (#)
72	7	3	18

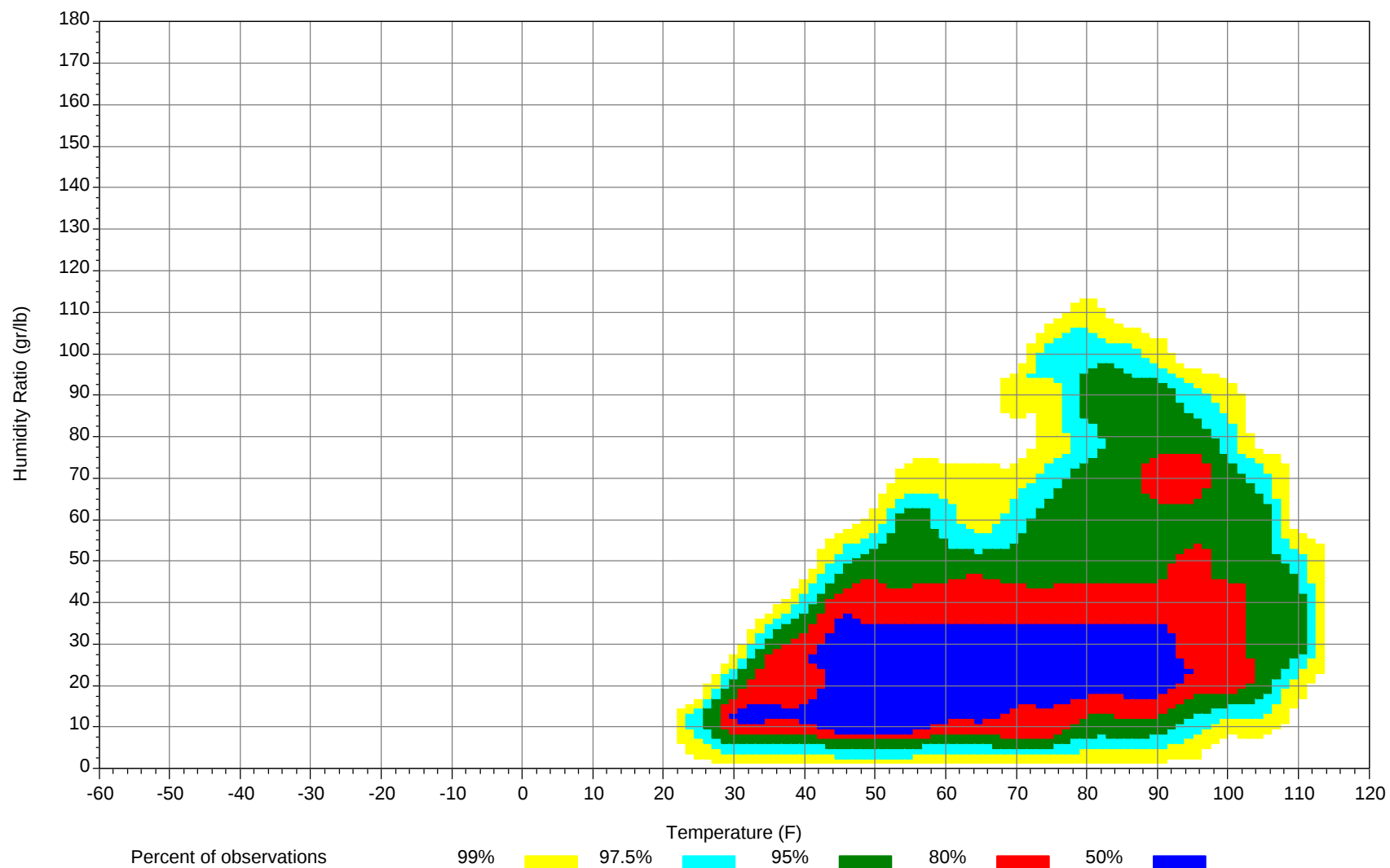
*Note: Temperatures at greater depths can be estimated by adding 1.5° F per 100 feet additional depth.



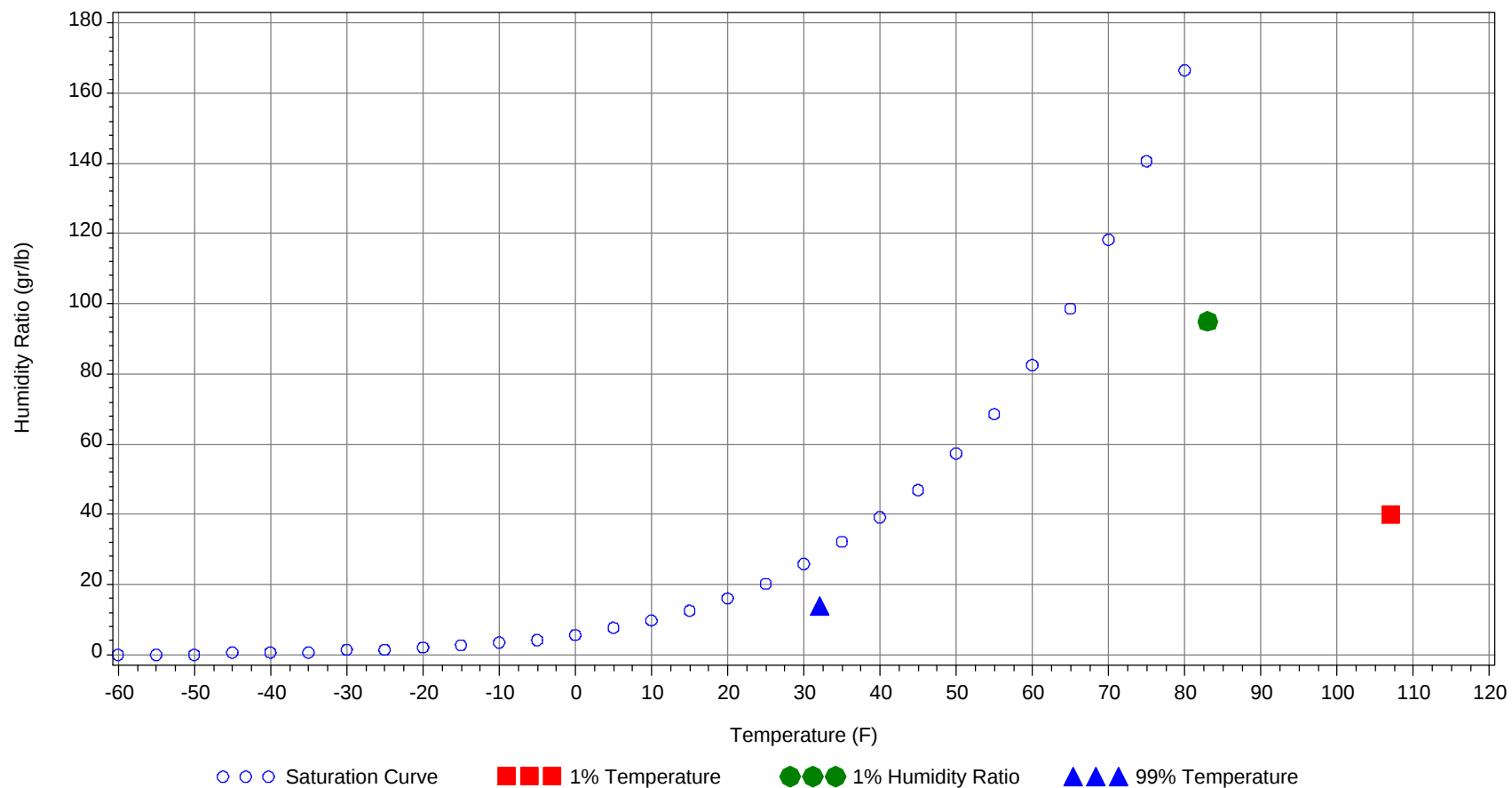
Average Annual Climate



Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values



	(° F) / (gr/lb)	MCDB (° F)	MCWB (° F)	MCDP (° F)	MCHR (gr/lb)	Enthalpy (btu/lb)
1.0% Dry Bulb	107.0		66		40.0	32.2
99.0% Dry Bulb	32.0				14.0	9.9
1.0% Humidity Ratio	95.0	83.0	70	64.0		34.9

Dry-Bulb Temperature Hours For An Average Year

	January					February					March				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
115/119															
110/114															
105/109															
100/104															
95/ 99															
90/ 94												1	0	1	56.7
85/ 89												5	1	6	55.8
80/ 84							1	0	1	53.7		17	6	23	53.9
75/ 79		0		0	55		6	1	7	52.2	0	38	17	55	52.2
70/ 74	0	3	0	3	51.1		22	5	27	50.1	2	45	31	78	50.1
65/ 69	0	16	2	18	48.5	0	28	13	41	48.4	9	41	35	85	48.5
60/ 64	1	42	11	54	46.3	3	43	28	74	46.5	31	48	51	130	46.5
55/ 59	6	60	31	97	44.2	15	51	48	114	44.6	50	32	51	133	44.3
50/ 54	21	58	60	139	41.9	42	45	59	146	42.2	72	15	36	123	42
45/ 49	44	40	66	150	38.8	66	19	45	130	39	52	5	16	73	38.8
40/ 44	50	17	42	109	35.3	46	7	17	70	35.4	21	0	4	25	35.6
35/ 39	67	9	26	102	31.4	36	2	7	45	31.4	10	0	1	11	32
30/ 34	45	2	8	55	27.5	13	0	2	15	26.6	1		0	1	25.7
25/ 29	13	0	1	14	22.9	3	0	0	3	21.7	0			0	20.3
20/ 24	1	0	0	1	17.9	0			0	17.9					
15/ 19	0			0	13										
10/ 14	0			0	10										

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.

Dry-Bulb Temperature Hours For An Average Year

	April					May					June				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
115/119												0	0	0	67.6
110/114							0		0	65.5		4	2	6	66
105/109							2	0	2	64		26	9	35	64.5
100/104							10	3	13	61.8	0	54	28	82	62.5
95/ 99		3	1	4	59.5	0	27	11	38	59.9	2	60	40	102	61
90/ 94		13	4	17	57.6	1	48	25	74	58.4	16	46	54	116	59.2
85/ 89	0	21	9	30	55.8	4	43	33	80	56.9	31	23	39	93	57.6
80/ 84	1	41	23	65	54	18	46	50	114	55.2	57	16	36	109	56.1
75/ 79	6	51	37	94	52.1	41	35	48	124	53.3	65	7	20	92	53.8
70/ 74	19	44	46	109	50	59	22	38	119	51.4	42	3	9	54	51.6
65/ 69	32	29	38	99	48.1	48	10	19	77	49.6	16	1	3	20	49.8
60/ 64	59	23	41	123	46.2	44	5	15	64	47.3	8	0	1	9	48.4
55/ 59	61	11	26	98	44.2	25	1	5	31	45.5	1	0	0	1	48.6
50/ 54	43	3	12	58	41.6	7	0	1	8	43.7	0		0	0	49.5
45/ 49	17	0	2	19	38.8	1			1	43.9					
40/ 44	3	0	0	3	36.9	0			0	41					
35/ 39	0		0	0	33.4										
30/ 34															
25/ 29															
20/ 24															
15/ 19															
10/ 14															

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Dry-Bulb Temperature Hours For An Average Year

	July					August					September				
Temperature Range (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)
115/119		2	0	2	69		0		0	71.8					
110/114		11	4	15	68		4	1	5	68.3		0		0	70
105/109		51	22	73	67		35	10	45	67.5		4	0	4	66.7
100/104	1	77	46	124	66.3	0	76	35	111	66.2		26	6	32	64.5
95/ 99	12	61	63	136	65.6	4	70	58	132	65.4		61	21	82	63.2
90/ 94	48	30	60	138	64.4	32	39	67	138	64.5	3	63	40	106	61.7
85/ 89	62	9	30	101	63.2	55	14	42	111	63.4	12	37	43	92	60.4
80/ 84	72	5	18	95	61.7	78	6	25	109	61.9	38	29	53	120	59
75/ 79	41	1	5	47	59.1	54	3	9	66	59.5	61	14	41	116	56.7
70/ 74	12	0	1	13	56.9	22	0	2	24	56.1	61	5	24	90	54.3
65/ 69	1			1	47.7	4		0	4	50.6	38	1	9	48	50.6
60/ 64	0			0	43.5	0			0	46.5	21	0	2	23	46.9
55/ 59											5		0	5	43.5
50/ 54											0			0	40.8
45/ 49															
40/ 44															
35/ 39															
30/ 34															
25/ 29															
20/ 24															
15/ 19															
10/ 14															

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Dry-Bulb Temperature Hours For An Average Year

	October					November					December				
Temperature Range (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)
115/119															
110/114															
105/109															
100/104		0		0	62.5										
95/ 99		5	0	5	60.5										
90/ 94		19	3	22	59.8										
85/ 89	0	32	8	40	57.7		0		0	57.5					
80/ 84	1	54	23	78	56.1		6	0	6	55.3					
75/ 79	10	48	37	95	54.5		23	3	26	53.4		0		0	51.2
70/ 74	24	41	49	114	52.3	1	36	11	48	51.3		2	0	2	51.1
65/ 69	35	24	43	102	50.4	3	39	19	61	48.9	0	9	1	10	49
60/ 64	61	17	44	122	48	12	54	40	106	46.7	1	37	6	44	46.4
55/ 59	61	7	27	95	45	27	42	53	122	43.9	5	60	22	87	43.9
50/ 54	37	2	10	49	41.5	54	24	54	132	41.1	17	62	51	130	41.3
45/ 49	14	0	2	16	37.6	65	12	38	115	37.8	40	45	68	153	38.1
40/ 44	3		0	3	33.5	42	3	15	60	34	47	19	50	116	34.6
35/ 39	1		0	1	30.3	27	1	6	34	30.2	70	11	36	117	31.2
30/ 34	0			0	25	8	0	1	9	26.1	50	2	12	64	27.2
25/ 29						2		0	2	22	15	0	2	17	22.9
20/ 24						0			0	18.3	2	0	1	3	18.3
15/ 19											1	0	0	1	13.4
10/ 14											0			0	9.4

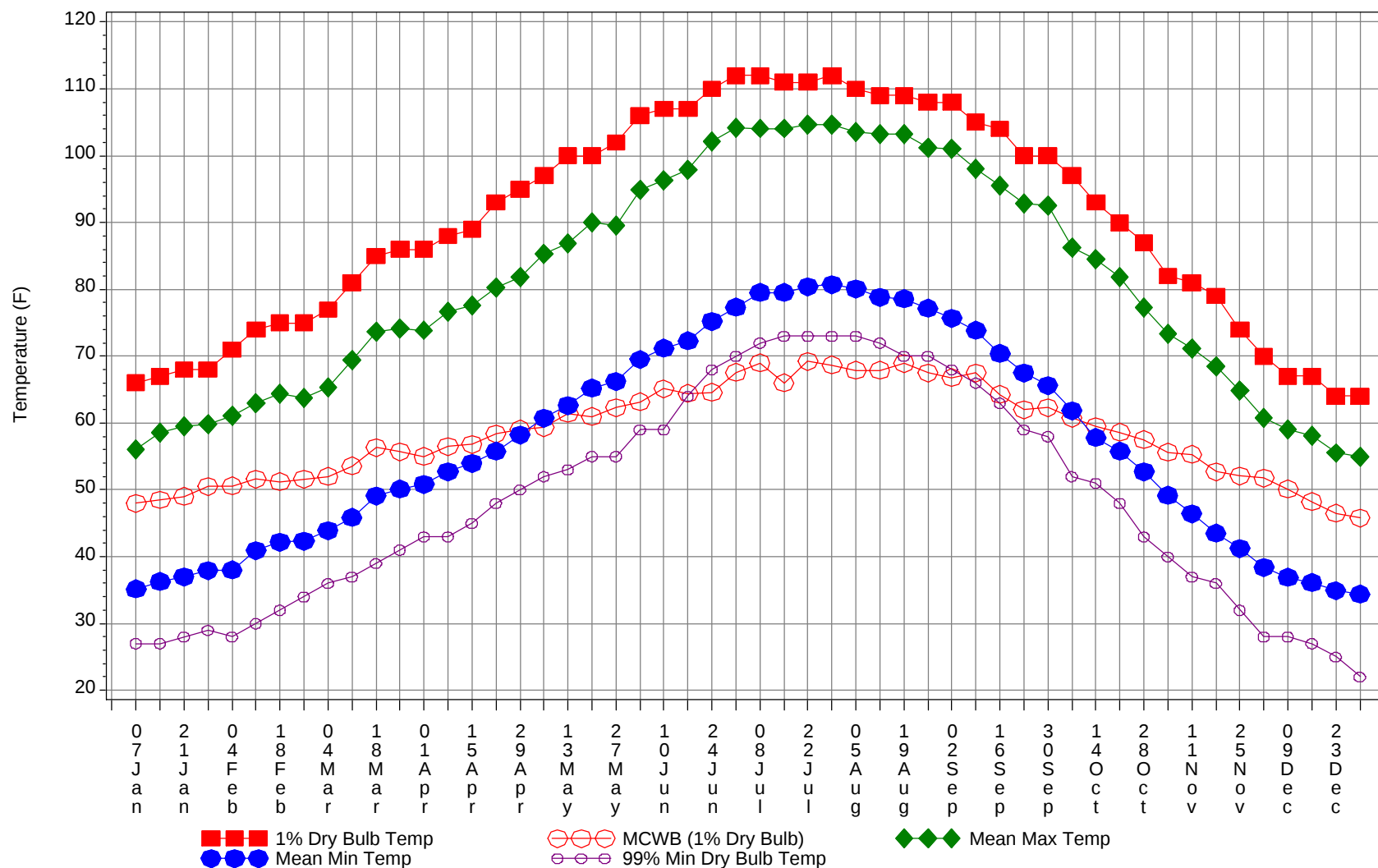
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Dry-Bulb Temperature Hours For An Average Year

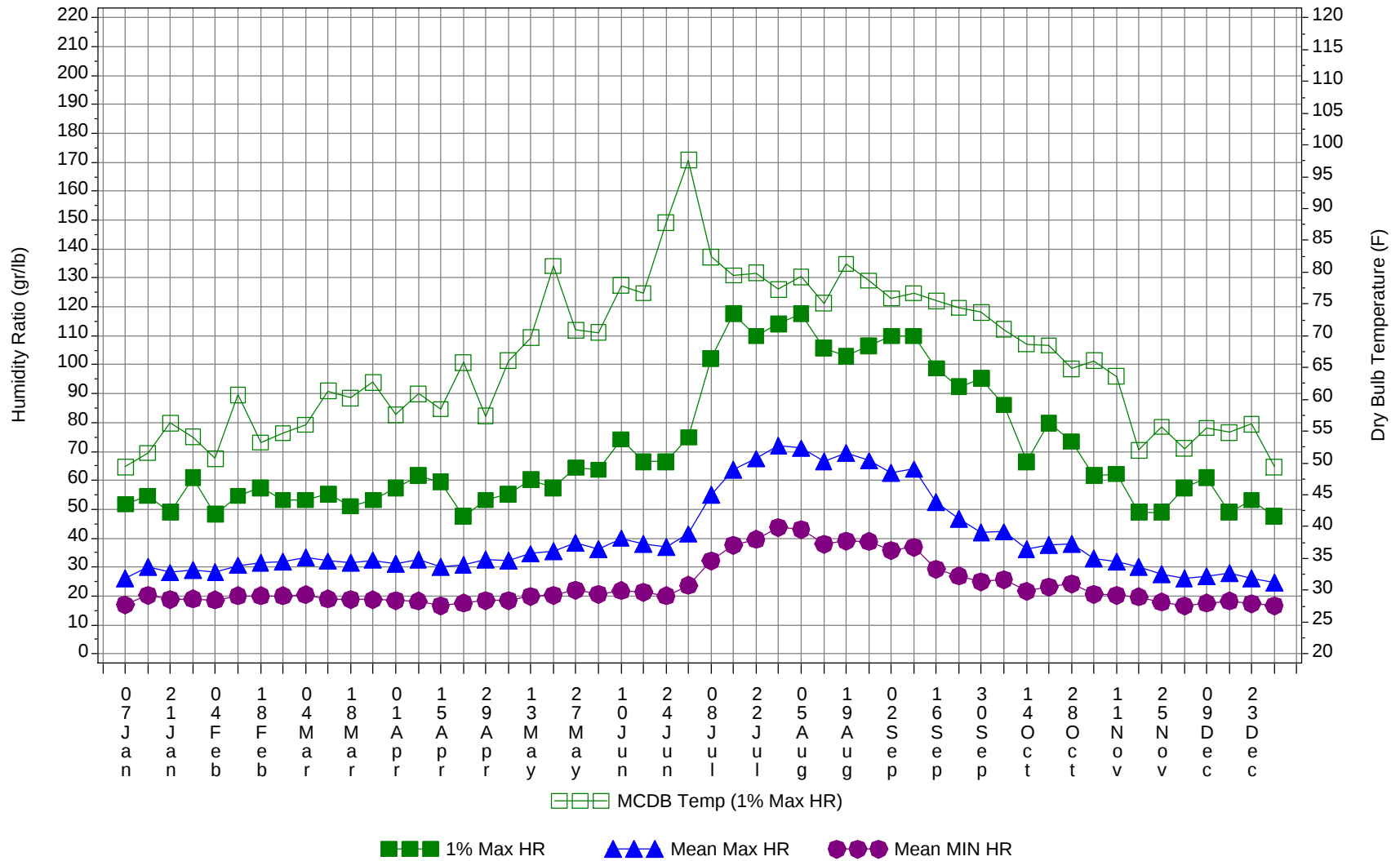
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
115/119		3	0	3	68.9
110/114		19	6	25	67.6
105/109		118	41	159	66.6
100/104	1	244	119	364	65.1
95/ 99	18	288	196	502	63.7
90/ 94	100	260	254	614	61.9
85/ 89	165	184	205	554	60
80/ 84	267	223	234	724	57.8
75/ 79	280	227	219	726	54.8
70/ 74	243	224	218	685	51.8
65/ 69	188	199	182	569	49.2
60/ 64	242	268	241	751	46.8
55/ 59	257	263	264	784	44.3
50/ 54	293	207	282	782	41.7
45/ 49	296	120	234	650	38.5
40/ 44	209	45	126	380	34.9
35/ 39	207	22	74	303	31.2
30/ 34	115	4	22	141	27.2
25/ 29	31	1	3	35	22.7
20/ 24	4	0	1	5	18.2
15/ 19	1	0	0	1	13.3
10/ 14	0			0	9.6

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.

Annual Summary of Temperatures



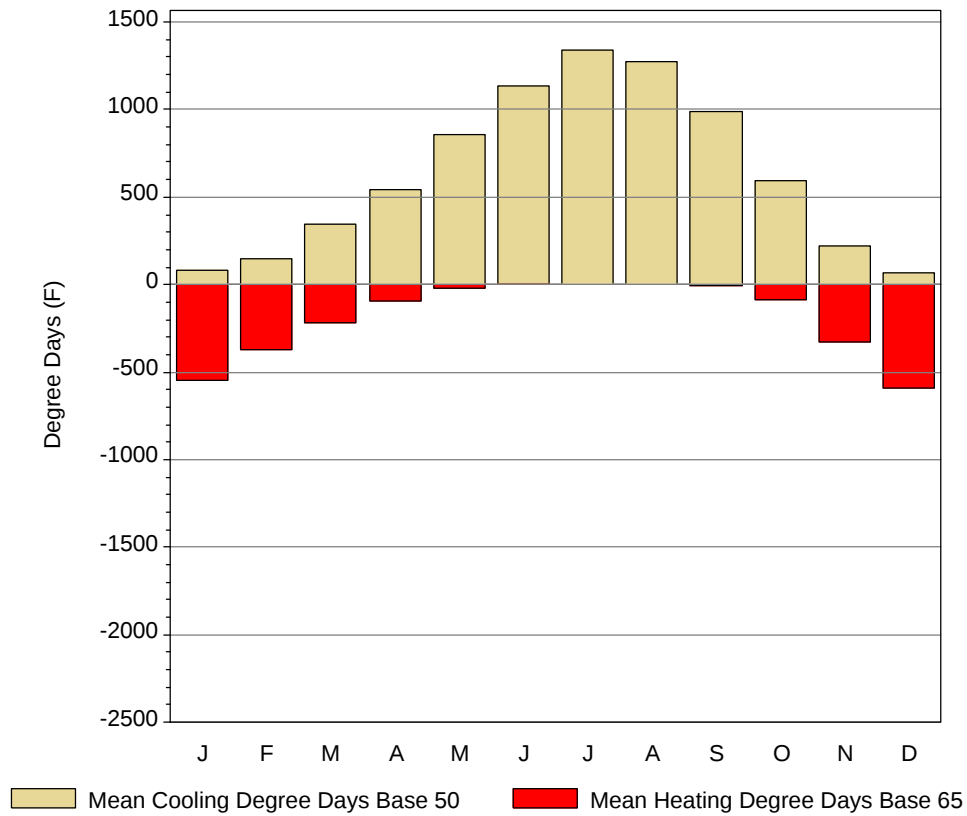
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

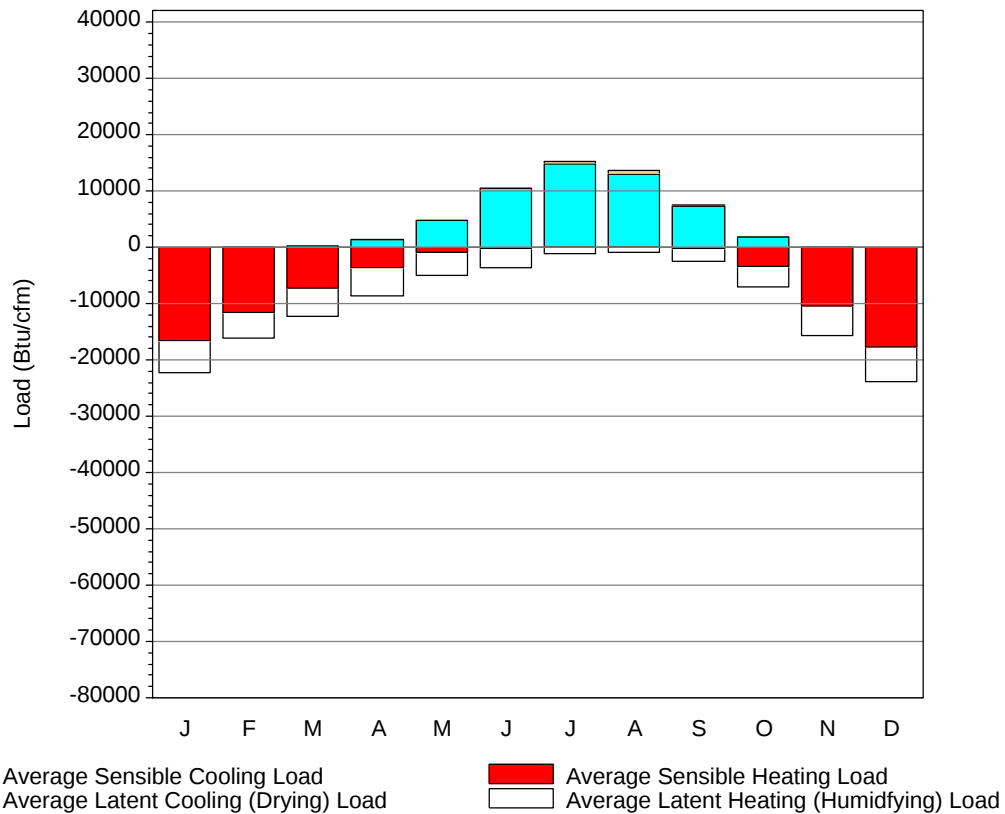
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	66	48	56.1	35.2	27	51.8	49.4	26.1	16.9
14-Jan	67	48.5	58.6	36.3	27	54.6	51.6	30	20.2
21-Jan	68	49	59.5	37	28	49	56.3	28.1	18.8
28-Jan	68	50.5	59.8	37.9	29	60.9	54.1	29.1	19
4-Feb	71	50.6	61.1	38	28	48.3	50.7	28.3	18.6
11-Feb	74	51.6	62.9	40.9	30	54.6	60.7	30.6	20.1
18-Feb	75	51.2	64.4	42.2	32	57.4	53.2	31.5	20
25-Feb	75	51.6	63.7	42.3	34	53.2	54.7	31.9	20
4-Mar	77	52	65.3	43.9	36	53.2	56	33.2	20.5
11-Mar	81	53.6	69.4	45.9	37	55.3	61.3	32.1	19
18-Mar	85	56.3	73.7	49.1	39	51.1	60.2	31.5	18.8
25-Mar	86	55.7	74.2	50.1	41	53.2	62.7	32.4	18.7
1-Apr	86	55	73.9	50.8	43	57.4	57.6	31.1	18.5
8-Apr	88	56.5	76.7	52.7	43	61.6	60.9	32.5	18.2
15-Apr	89	56.8	77.6	54	45	59.5	58.5	30.2	16.6
22-Apr	93	58.4	80.3	55.8	48	47.6	65.8	30.8	17.5
29-Apr	95	59.1	81.9	58.2	50	53.2	57.4	32.6	18.4
6-May	97	59.3	85.3	60.7	52	55.3	66.1	32.2	18.4
13-May	100	61.4	86.9	62.6	53	60.2	69.7	34.6	19.8
20-May	100	61	90	65.2	55	57.4	81	35.6	20.2
27-May	102	62.3	89.6	66.2	55	64.4	70.9	38.3	22
4-Jun	106	63.2	94.9	69.5	59	63.7	70.5	36.1	20.6
10-Jun	107	65.1	96.3	71.2	59	74.2	77.9	40	21.8
17-Jun	107	64.4	97.9	72.3	64	66.5	76.7	38.1	21.4
24-Jun	110	64.6	102.1	75.2	68	66.5	87.8	36.9	20.1
1-Jul	112	67.6	104.2	77.3	70	74.9	97.6	41.5	23.6
8-Jul	112	69	104.1	79.5	72	102.2	82.4	55.1	32.2
15-Jul	111	66	104.1	79.5	73	117.6	79.5	63.7	37.5
22-Jul	111	69.2	104.7	80.4	73	109.9	79.9	67.5	39.6
29-Jul	112	68.7	104.7	80.7	73	114.1	77.3	72	43.7
5-Aug	110	67.9	103.6	80.1	73	117.6	79.3	71.1	43
12-Aug	109	67.9	103.2	78.8	72	105.7	75.1	66.7	37.9
19-Aug	109	68.9	103.2	78.6	70	102.9	81.3	69.5	39
26-Aug	108	67.5	101.2	77.2	70	106.4	78.7	66.8	38.8
2-Sep	108	66.8	101	75.7	68	109.9	75.9	62.5	35.7
9-Sep	105	67.5	98.1	73.9	66	109.9	76.7	63.9	36.9
16-Sep	104	64.3	95.6	70.4	63	98.7	75.5	52.5	29.2
23-Sep	100	62	92.8	67.5	59	92.4	74.4	46.6	27
30-Sep	100	62.3	92.6	65.6	58	95.2	73.7	42	25
7-Oct	97	60.7	86.3	61.8	52	86.1	71	42.2	25.6
14-Oct	93	59.5	84.5	57.8	51	66.5	68.7	36.2	21.6
21-Oct	90	58.6	81.8	55.8	48	79.8	68.5	37.6	23.1
28-Oct	87	57.5	77.3	52.7	43	73.5	64.8	37.9	24.2
4-Nov	82	55.6	73.4	49.2	40	61.6	66.1	33	20.6
11-Nov	81	55.3	71.2	46.4	37	62.3	63.6	32	20.3
18-Nov	79	52.7	68.4	43.5	36	49	52	30	19.7
25-Nov	74	52.1	64.8	41.2	32	49	55.7	27.6	17.9
2-Dec	70	51.8	60.8	38.4	28	57.4	52.3	26	16.7
9-Dec	67	50.1	59.1	36.9	28	60.9	55.5	26.7	17.5
16-Dec	67	48.2	58.1	36.1	27	49	54.8	27.8	18.2
23-Dec	64	46.5	55.5	34.9	25	53.2	56.1	26	17.4
31-Dec	64	45.8	55	34.4	22	47.6	49.4	24.8	16.7

Degree Days, Heating and Cooling (Base 65 F) & Cooling (Base 50F)



Month	Mean Cooling Degree Days (°F) Base 50	Mean Cooling Degree Days (°F) Base 65	Mean Heating Degree Days (°F) Base 65
JAN	82	2	549.5
FEB	144.3	14.2	372.2
MAR	348.4	77.6	218
APR	540.3	181.2	94.6
MAY	856.5	412.6	21.1
JUN	1137.8	689.6	1.7
JUL	1340.3	875.3	0
AUG	1271.8	806.9	0
SEP	985.7	539.4	3.7
OCT	593	210.9	86.5
NOV	219.8	33.8	327.1
DEC	64.8	1.1	590.3
ANN	7584.7	3844.6	2264.7

Average Ventilation and Infiltration Loads (Outside Air vs 75F, 60% RH summer; 68F, 30% RH winter)



Month	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	-16613	0	-5569
FEB	13	-11651	0	-4514
MAR	361	-7364	0	-4803
APR	1433	-3549	1	-5030
MAY	4819	-961	0	-4034
JUN	10555	-101	7	-3440
JUL	14691	-1	638	-1101
AUG	12986	-4	575	-961
SEP	7229	-236	242	-2206
OCT	1815	-3291	10	-3827
NOV	86	-10441	0	-5182
DEC	0	-17689	0	-6240
ANN	53988	-71901	1473	-46907

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	LASVEGAS, NV 23169	Window:	1.000
Lat, Lon, Elev	36.08N 115.17W 2179ft	Overhang:	1.123
Press, Stn_Type	13.6psia Primary	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

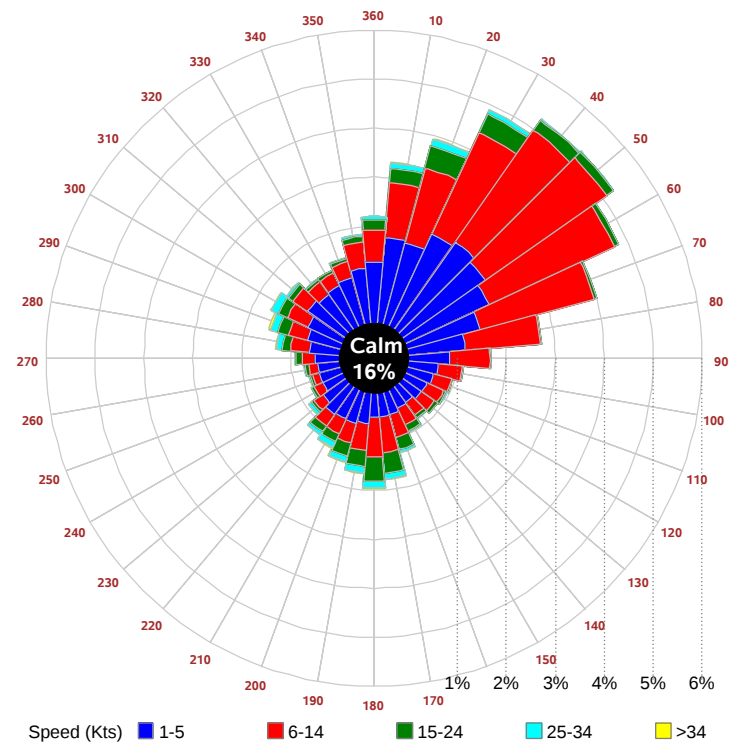
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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

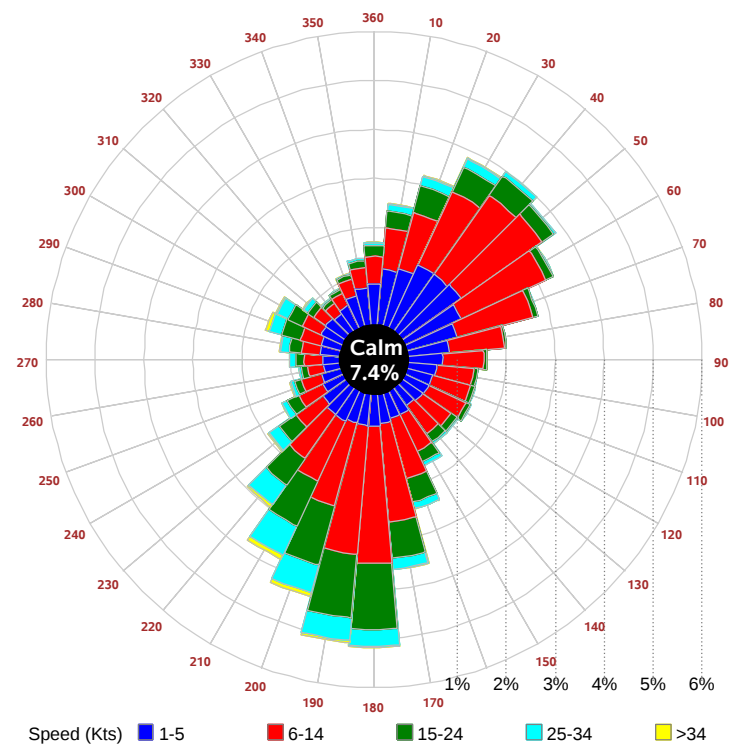
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	53	83	90	67	22	58	94	110	100	67	
	M.Cloudy	40	67	70	51	16	46	81	97	84	52	
NORTH	M.Clear	11	15	15	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	8	0	
	M.Cloudy	44	51	21	17	11	29	26	13	8	0	
SOUTH	M.Clear	29	61	75	64	32	58	91	94	64	0	
	M.Cloudy	20	47	59	47	22	30	55	57	34	0	
WEST	M.Clear	10	14	16	64	82	7	11	32	58	1	
	M.Cloudy	10	17	19	47	44	7	12	24	31	0	
M.Clear	(% hrs)	79	80	78	74	73	55	55	53	52	54	

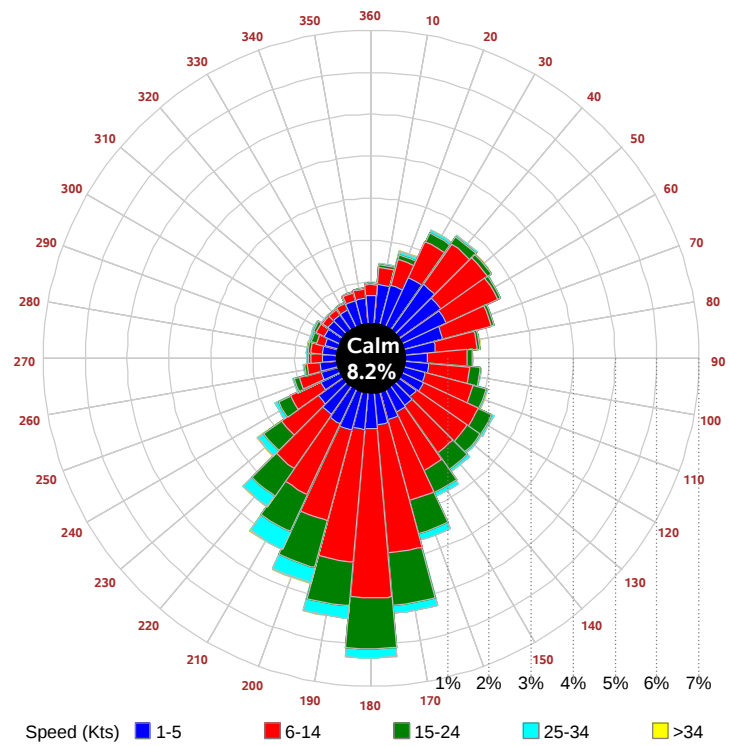
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

