

ELY/YELLAND FIELD	NV	
Latitude = 39.28 N		WMO No. 724860
Longitude = 114.80 W		Elevation = 6263 feet
Period of Record = 1973 to 1996		Average Pressure = 23.87 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	58	32	12.5	WSW
0.4% Occurrence	90	57	33	12.3	SW
1.0% Occurrence	88	56	35	12.6	SW
2.0% Occurrence	86	56	35	12.4	SW
Mean Daily Range	30	-	-	-	-
97.5% Occurrence	7	6	7	9.8	S
99.0% Occurrence	0	-1	5	10.4	S
99.6% Occurrence	-5	-6	4	11.3	S
Median of Extreme Lows	-15	-16	2	11.9	S
	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	64	82	80	11.5	S
0.4% Occurrence	61	79	69	10.7	S
1.0% Occurrence	59	79	60	11.0	S
2.0% Occurrence	58	79	55	11.1	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	94	66	0.50	8.1	S
0.4% Occurrence	81	64	0.44	8.2	S
1.0% Occurrence	75	64	0.41	8.9	S
2.0% Occurrence	67	65	0.36	9.5	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		7	510	0	0

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
5	1.0	90	0.0 + 0.5
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 (#)
47.6	N/A	9	161

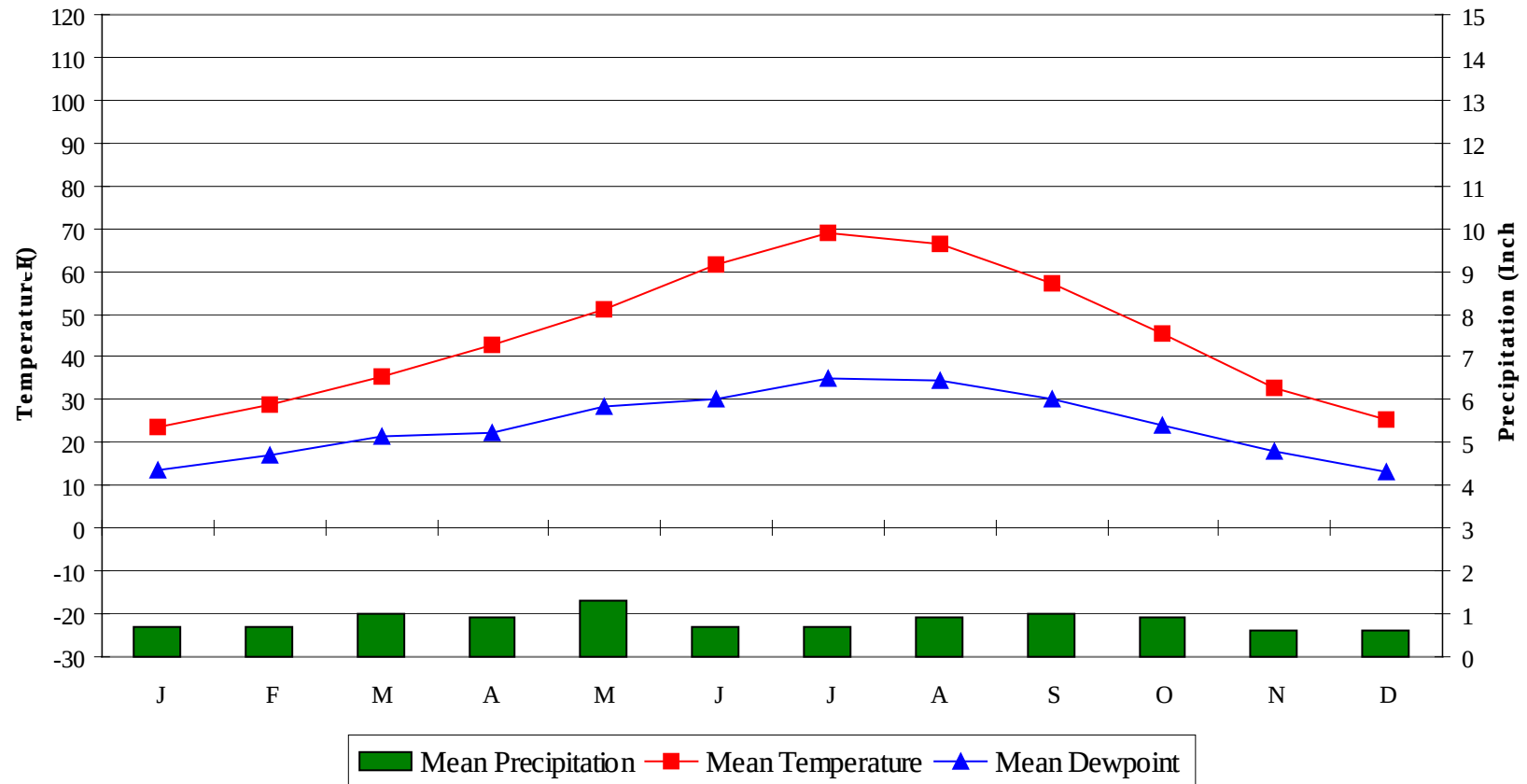
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

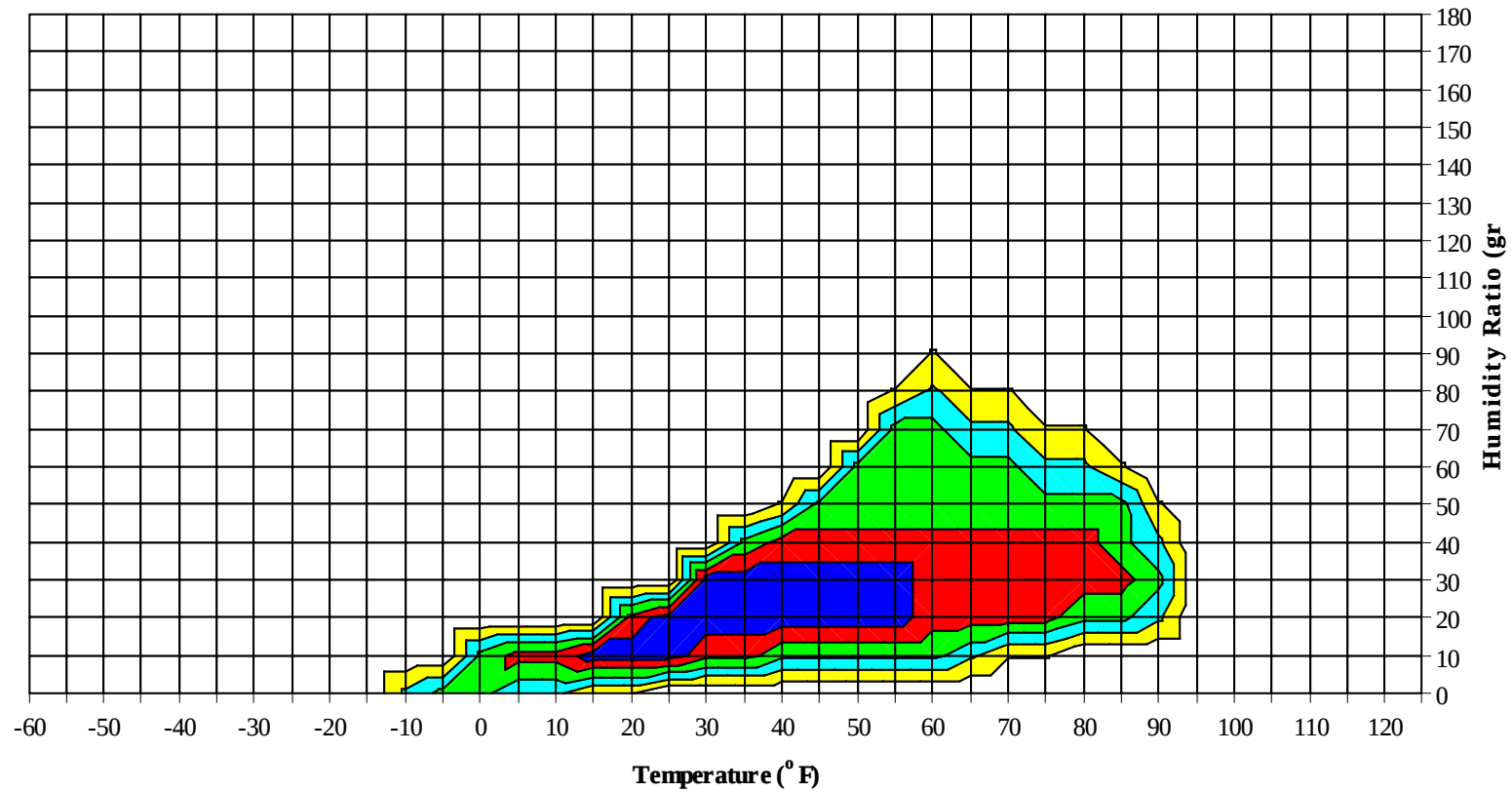


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Long Term Psychrometric Summary

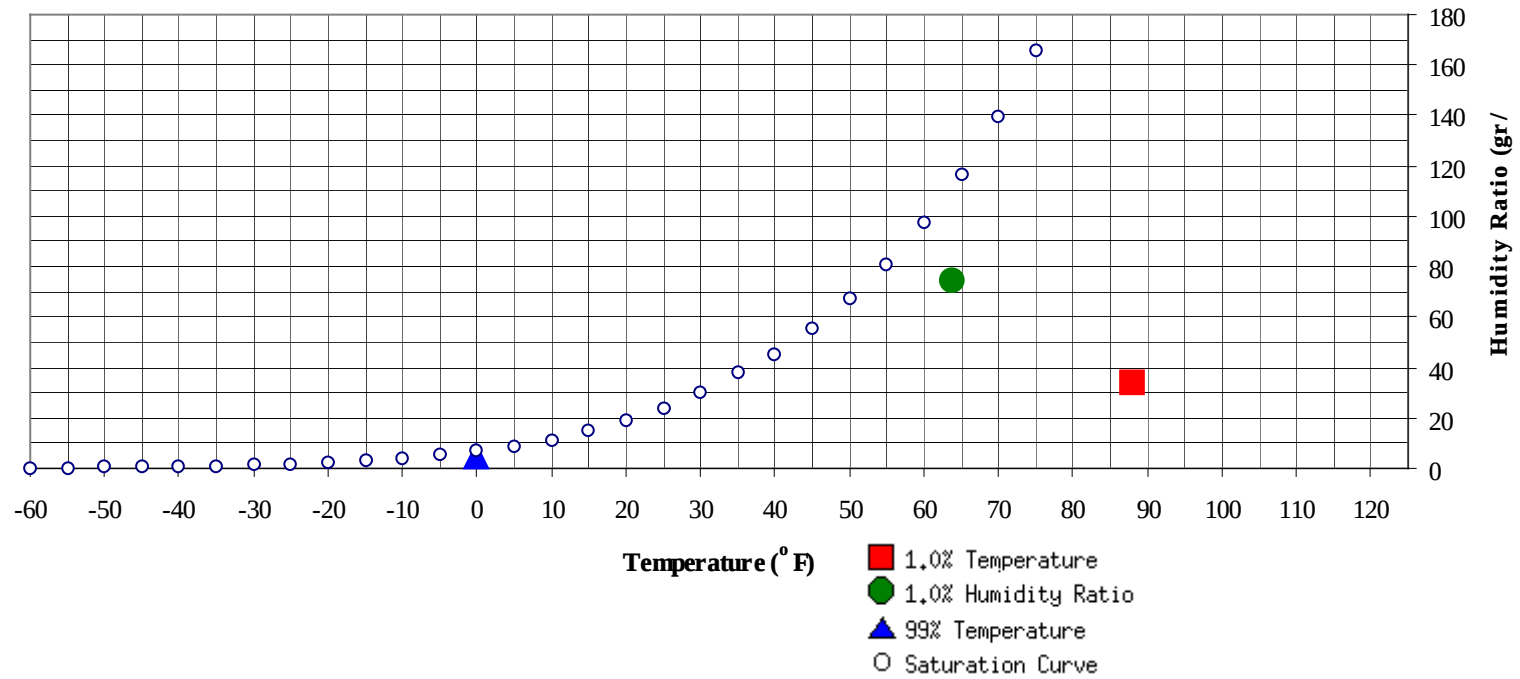


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	0	4.7	0.7		74.9	63.9	56.9	53.1	27.0

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	88	34.3	56.4	26.5

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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		
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69							0		0	46.4		0		0	49.0
60 / 64		0		0	40.9		4	0	4	43.0		3	0	3	44.9
55 / 59		3		3	39.7		10	1	11	40.4		11	1	13	43.1
50 / 54		9	0	9	38.5		18	2	21	38.8		23	5	27	41.2
45 / 49	0	21	1	22	36.1	1	28	6	34	36.4	1	34	10	45	39.0
40 / 44	2	32	6	40	33.6	3	39	16	58	34.2	5	38	21	64	36.9
35 / 39	9	47	23	79	31.4	17	41	37	95	31.8	16	44	32	92	34.8
30 / 34	24	48	43	115	28.3	36	34	52	122	28.3	34	43	53	130	31.8
25 / 29	32	37	48	116	24.1	41	26	41	108	24.1	56	34	57	146	28.7
20 / 24	42	25	40	108	19.7	38	12	26	77	19.7	60	14	39	113	24.4
15 / 19	39	14	29	82	15.1	33	6	18	56	15.1	40	4	18	62	19.9
10 / 14	31	8	23	62	10.3	21	4	10	34	10.4	20	1	7	27	15.1
5 / 9	26	3	16	45	5.7	13	2	7	22	5.7	10	0	3	13	10.7
0 / 4	19	2	10	30	1.1	10	1	4	15	0.9	4	0	1	5	6.0
-5 / -1	10	1	4	15	-3.4	5	0	1	7	-3.4	2		1	3	1.0
-10 / -6	8	0	3	12	-7.5	4	0	1	4	-7.1	1		0	1	-2.9
-15 / -11	4	0	1	5	-12.2	1	0	0	2	-12.4	0			0	-6.8
-20 / -16	2		0	2	-17.0	1	0	0	1	-17.7					
-25 / -21	0			0	-20.7	0		0	0	-21.5					
-30 / -26						1			1	-26.4					

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		
95 / 99															
90 / 94												6	1	7	56.7
85 / 89							1	0	1	54.1		25	6	32	55.2
80 / 84							5	1	6	53.7	0	45	13	58	53.6
75 / 79		3	0	3	49.3	0	22	4	26	51.1	3	49	20	72	51.7
70 / 74		13	2	15	47.7	0	42	10	52	49.0	7	38	25	70	50.1
65 / 69	0	22	6	28	45.4	3	41	17	60	47.2	13	30	30	73	48.3
60 / 64	1	35	10	46	42.9	8	35	23	66	45.3	18	20	37	76	46.3
55 / 59	4	37	18	58	41.1	13	35	34	81	43.3	31	14	39	84	44.3
50 / 54	8	35	27	70	39.0	24	25	42	91	41.4	44	7	32	83	42.1
45 / 49	17	33	36	86	36.7	38	20	39	97	39.2	49	4	20	73	39.5
40 / 44	32	24	39	96	34.5	52	14	37	102	36.3	39	2	10	51	36.3
35 / 39	44	21	41	106	31.7	53	7	24	84	33.0	23	1	6	30	32.7
30 / 34	54	13	35	102	28.3	38	3	14	55	29.5	9	0	1	10	29.0
25 / 29	46	4	19	69	24.2	17	0	3	20	25.1	2	0		2	24.6
20 / 24	24	0	6	30	19.9	3			3	20.4	0	0		0	19.8
15 / 19	8		1	9	15.6	0			0	16.2	0			0	16.0
10 / 14	1		0	2	11.0										
5 / 9	0		0	0	5.1										
0 / 4	0		0	0	1.5										
-5 / -1	0		0	0	-3.0										
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															

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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		
95 / 99		1	0	1	58.1		0		0	57.0					
90 / 94		22	4	26	57.2		12	1	14	56.4		1		1	56.3
85 / 89		64	16	81	56.2		45	9	54	56.3		10	1	10	55.4
80 / 84	1	69	24	94	54.9	0	74	18	92	55.0		33	5	37	53.6
75 / 79	7	46	28	81	53.9	3	57	24	84	53.7	0	51	9	60	51.9
70 / 74	15	26	37	78	52.6	11	32	32	74	52.5	2	47	15	64	50.2
65 / 69	25	12	45	82	51.0	19	16	43	78	51.0	4	36	22	63	48.7
60 / 64	39	6	47	92	49.5	36	9	53	98	49.4	12	27	34	73	47.0
55 / 59	55	2	31	88	47.1	55	3	40	97	47.3	24	17	44	84	45.2
50 / 54	57	0	11	69	42.8	55	0	18	74	43.0	35	10	42	88	42.5
45 / 49	32	0	3	35	38.6	42		7	49	38.7	46	5	34	85	39.3
40 / 44	14		1	15	34.7	20		2	22	34.9	51	3	21	74	35.9
35 / 39	3			3	32.2	6		0	6	30.8	39	1	9	49	31.8
30 / 34	0			0	29.3	1		0	1	26.3	20	0	3	24	28.2
25 / 29											7		1	8	23.9
20 / 24											1		0	1	19.9
15 / 19											0			0	16.0
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															

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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		
95 / 99															
90 / 94															
85 / 89															
80 / 84		2		2	51.1										
75 / 79		14	1	15	49.8		0		0	48.0					
70 / 74		26	2	28	48.0		1		1	47.0					
65 / 69		36	4	40	46.2		5		5	45.0					
60 / 64	1	45	8	53	44.5		15	0	15	43.3		1		1	42.3
55 / 59	3	34	19	55	42.4		24	1	25	41.2		6		6	40.0
50 / 54	9	29	30	69	40.5	1	33	7	40	39.0		14	0	14	38.1
45 / 49	21	24	44	90	38.2	6	32	16	54	36.4	1	25	2	28	35.5
40 / 44	35	17	47	100	35.3	13	34	27	74	34.2	3	36	8	47	33.3
35 / 39	54	13	41	108	31.8	24	34	40	99	31.3	13	54	25	92	31.2
30 / 34	65	6	34	105	28.6	41	29	44	113	28.0	29	39	44	113	28.1
25 / 29	36	2	11	49	24.1	48	21	41	110	23.7	32	30	47	109	23.7
20 / 24	14	0	4	19	19.1	43	9	29	81	19.5	35	22	40	98	19.3
15 / 19	6	0	2	8	14.9	26	3	17	47	15.1	35	11	34	80	14.8
10 / 14	2		0	3	10.5	18	1	10	30	10.4	41	6	22	69	10.3
5 / 9	1		0	1	6.8	11	0	4	15	5.7	26	2	13	42	5.7
0 / 4	0		0	0	0.9	5	0	2	8	0.9	16	1	8	25	0.9
-5 / -1						2		0	3	-3.1	6	1	2	9	-3.3
-10 / -6						1		0	1	-7.6	4	0	1	5	-7.6
-15 / -11						0			0	-11.5	2	0	1	2	-12.8
-20 / -16											1	0	1	2	-17.3
-25 / -21											1		0	1	-22.3
-30 / -26											1		0	1	-25.8

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ELY/YELLAND FIELD NV WMO No. 724860
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1973 to 1996

Temperature Range (°F)	Annual Totals				
	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99		1	0	1	58.0
90 / 94		41	6	47	56.9
85 / 89		144	32	176	56.0
80 / 84	1	227	60	288	54.4
75 / 79	13	241	86	340	52.6
70 / 74	34	223	123	380	50.7
65 / 69	64	201	167	431	48.7
60 / 64	115	209	214	538	46.7
55 / 59	183	205	230	618	44.3
50 / 54	234	215	223	672	41.1
45 / 49	256	232	228	717	38.0
40 / 44	281	244	246	771	35.0
35 / 39	320	263	299	883	31.8
30 / 34	373	207	328	908	28.4
25 / 29	321	135	249	704	24.1
20 / 24	241	74	165	480	19.6
15 / 19	168	35	107	310	15.0
10 / 14	125	19	68	212	10.4
5 / 9	82	7	42	131	5.7
0 / 4	53	4	25	81	1.0
-5 / -1	24	2	8	34	-3.3
-10 / -6	17	1	5	23	-7.4
-15 / -11	7	0	2	10	-12.4
-20 / -16	3	0	1	5	-17.2
-25 / -21	1		0	2	-21.9
-30 / -26	1		0	1	-26.0

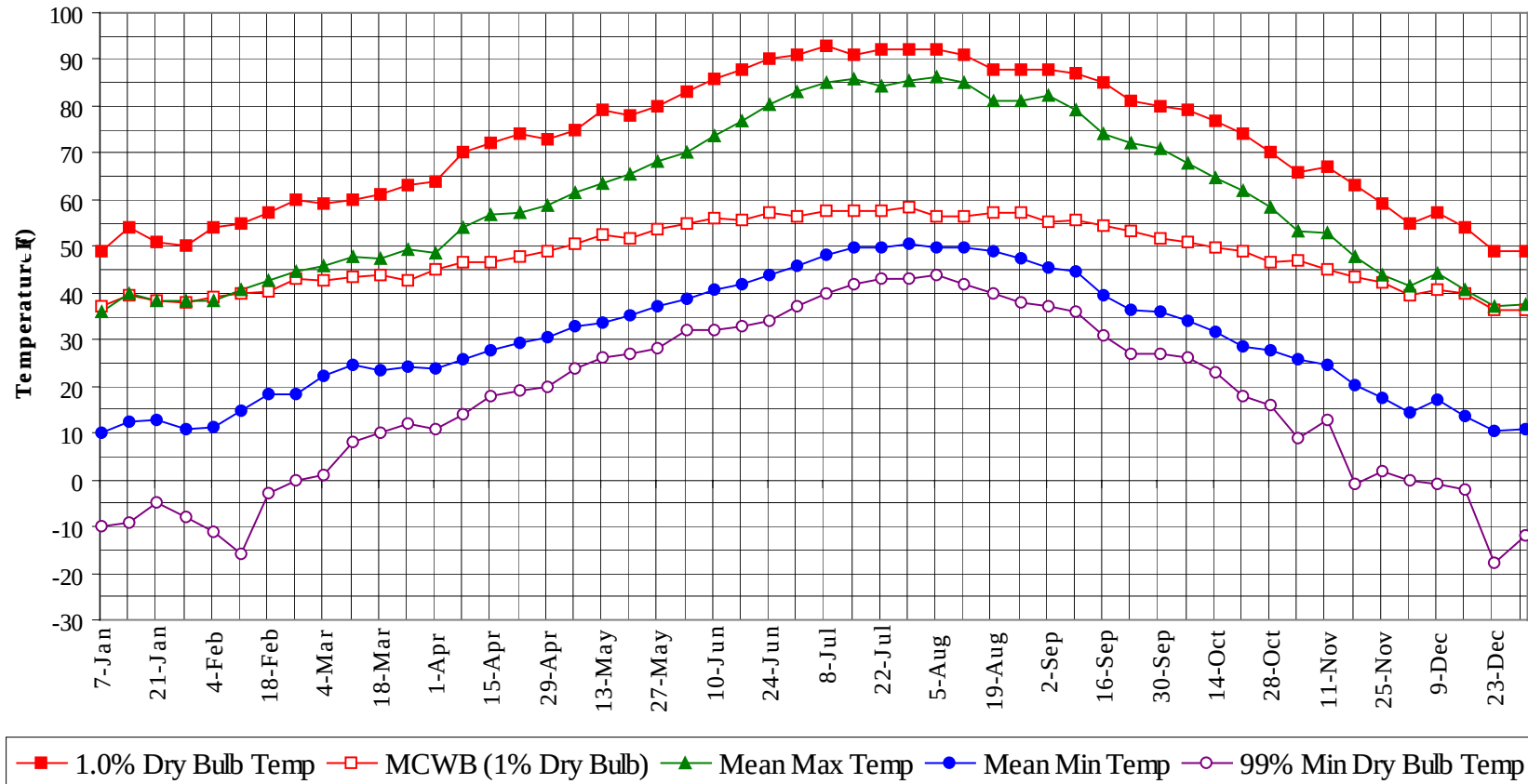
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Annual Summary of Temperatures

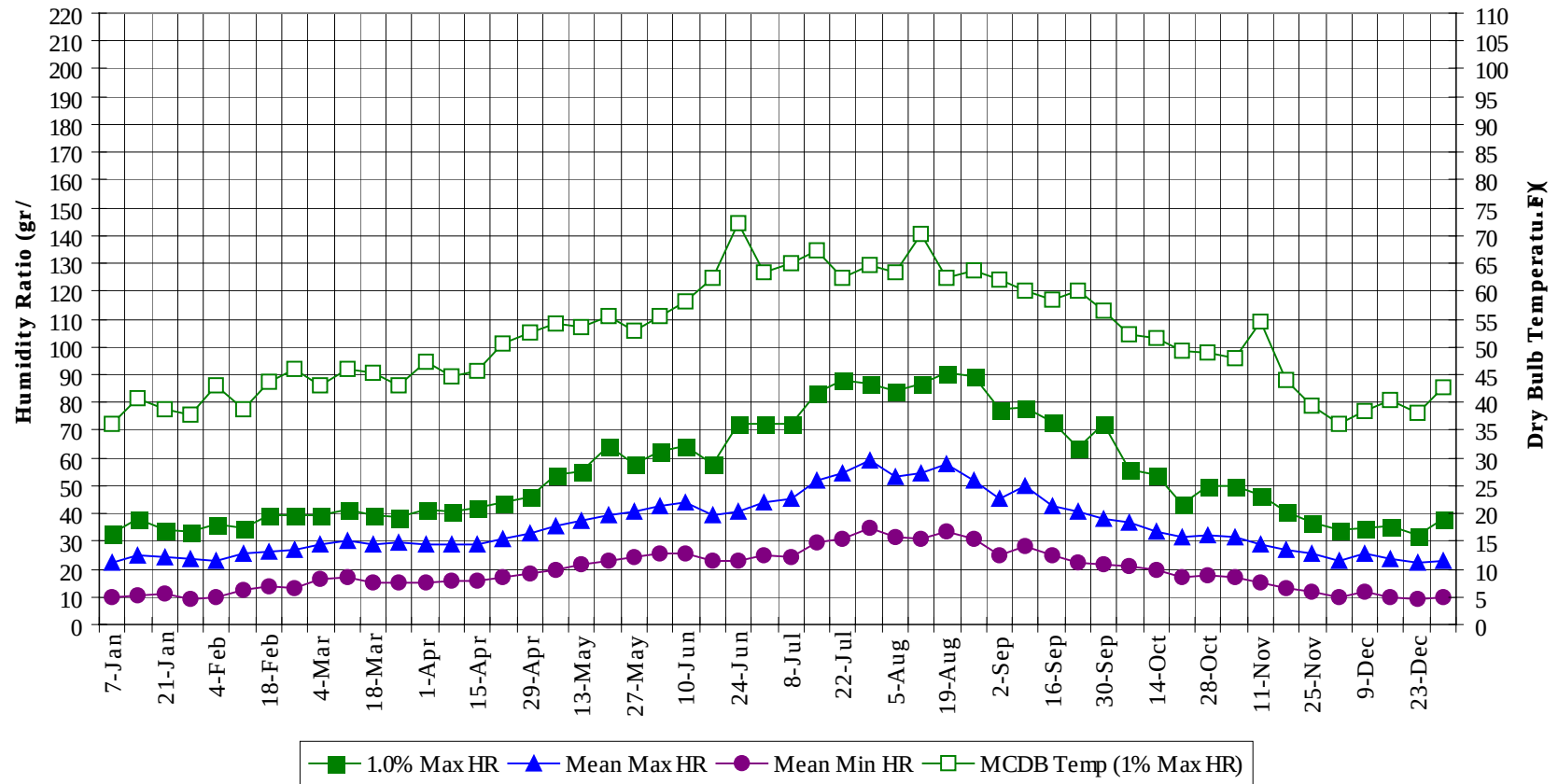


ELY/YELLAND FIELD

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Long Term Humidity and Dry Bulb Temperature Summary



ELY/YELLAND FIELD**NV****WMO No. 724860****Long Term Dry Bulb Temperature and Humidity Summary**

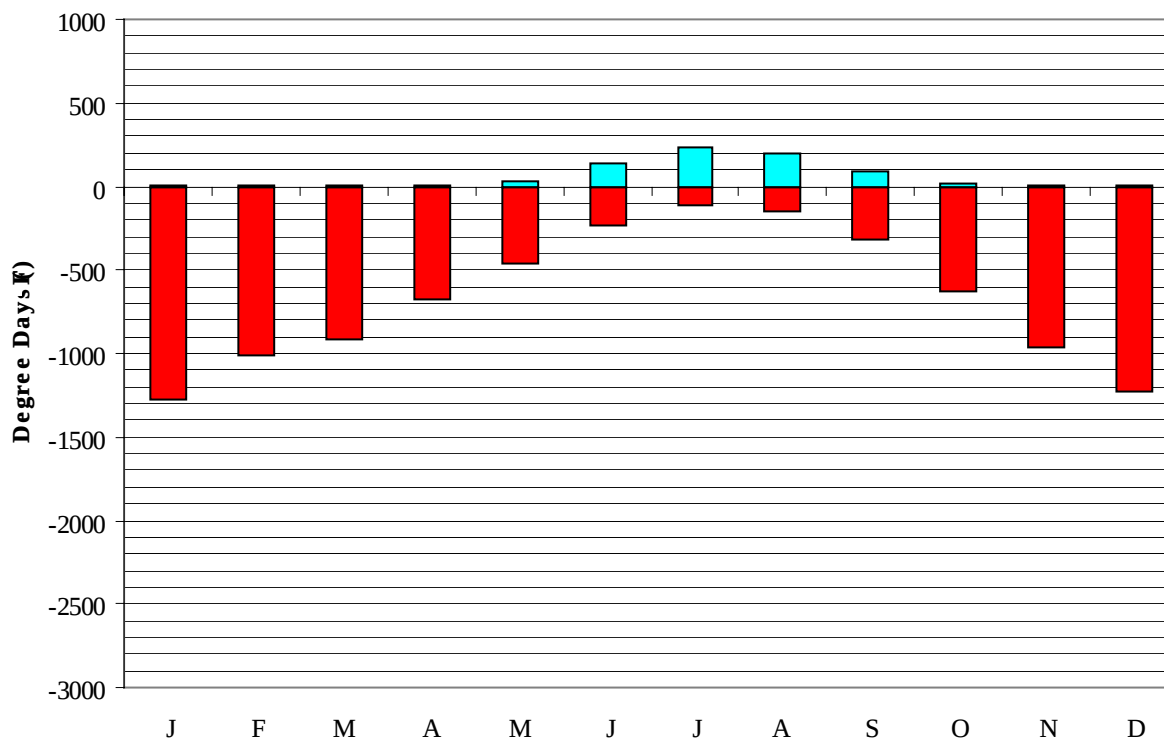
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	49.0	37.3	35.9	10.2	-10.0	32.9	36.3	22.4	9.6
14-Jan	54.0	39.6	40.0	12.3	-9.0	37.8	40.6	24.8	10.6
21-Jan	51.0	38.4	38.5	12.9	-5.0	34.3	38.9	24.1	10.9
28-Jan	50.0	38.1	38.5	11.0	-8.0	33.6	37.9	23.4	9.4
4-Feb	54.0	39.3	38.4	11.1	-11.0	36.4	43.0	22.7	9.9
11-Feb	55.0	40.0	40.5	14.7	-16.0	35.0	38.8	25.3	12.2
18-Feb	57.0	40.3	42.6	18.4	-3.0	39.2	43.6	26.3	13.8
25-Feb	60.0	43.2	44.7	18.2	0.0	39.2	45.9	27.1	12.9
4-Mar	59.0	42.7	45.7	22.1	1.0	39.2	43.1	28.8	16.4
11-Mar	60.0	43.6	47.6	24.6	8.0	41.3	46.0	30.5	17.1
18-Mar	61.0	43.8	47.4	23.5	10.0	39.2	45.4	28.6	15.3
25-Mar	63.0	42.6	49.4	24.1	12.0	38.5	43.0	29.4	15.4
1-Apr	64.0	44.9	48.5	23.8	11.0	41.3	47.2	28.7	15.4
8-Apr	70.0	46.7	54.1	25.9	14.0	40.6	44.5	29.0	15.6
15-Apr	72.0	46.7	56.9	27.8	18.0	42.0	45.5	28.6	15.7
22-Apr	74.0	47.8	57.1	29.3	19.0	44.1	50.5	30.7	17.0
29-Apr	73.0	48.9	58.9	30.5	20.0	46.2	52.5	32.7	18.1
6-May	75.0	50.3	61.6	33.0	24.0	53.9	54.2	35.4	19.9
13-May	79.0	52.6	63.3	33.6	26.0	55.3	53.6	37.5	21.7
20-May	78.0	51.5	65.5	35.3	27.0	64.4	55.6	39.3	23.0
27-May	80.0	53.6	68.3	37.2	28.0	58.1	52.8	41.0	24.1
3-Jun	83.0	54.8	70.0	38.6	32.0	62.3	55.5	42.6	25.5
10-Jun	86.0	56.0	73.7	40.6	32.0	64.4	58.2	43.8	25.7
17-Jun	88.0	55.7	76.9	41.9	33.0	58.1	62.4	39.6	22.7
24-Jun	90.0	57.2	80.2	44.0	34.0	72.1	72.3	41.0	23.0
1-Jul	91.0	56.5	83.0	45.7	37.0	72.1	63.3	44.0	24.7
8-Jul	93.0	57.6	85.1	48.2	40.0	72.1	64.9	45.2	24.3
15-Jul	91.0	57.5	85.9	49.7	42.0	83.3	67.2	51.7	29.3
22-Jul	92.0	57.4	84.4	49.8	43.0	88.2	62.4	54.8	30.6
29-Jul	92.0	58.5	85.4	50.5	43.0	86.8	64.6	58.9	34.7
5-Aug	92.0	56.6	86.3	49.8	44.0	84.0	63.3	53.4	31.3
12-Aug	91.0	56.5	85.2	49.6	42.0	86.8	70.2	54.4	30.7
19-Aug	88.0	57.1	81.3	49.0	40.0	90.3	62.4	57.8	33.4
26-Aug	88.0	57.3	81.3	47.6	38.0	89.6	63.7	51.6	30.6
2-Sep	88.0	55.2	82.1	45.3	37.0	77.7	62.2	45.2	25.2
9-Sep	87.0	55.5	79.2	44.6	36.0	78.4	60.2	50.0	28.4
16-Sep	85.0	54.5	73.9	39.7	31.0	72.8	58.5	42.9	25.1
23-Sep	81.0	53.1	72.1	36.4	27.0	63.7	60.2	40.6	22.3
30-Sep	80.0	51.7	71.0	35.9	27.0	72.1	56.6	38.1	21.8
7-Oct	79.0	51.1	67.9	33.9	26.0	56.0	52.3	36.6	21.2
14-Oct	77.0	49.8	64.5	31.7	23.0	53.9	51.7	33.6	19.5
21-Oct	74.0	48.8	61.9	28.4	18.0	43.4	49.3	31.5	17.4
28-Oct	70.0	46.7	58.4	27.9	16.0	49.7	49.0	32.5	17.4
4-Nov	66.0	46.8	53.1	25.6	9.0	49.7	48.0	31.5	17.2
11-Nov	67.0	45.2	52.9	24.6	13.0	46.9	54.4	29.0	15.2
18-Nov	63.0	43.4	47.9	20.3	-1.0	40.6	43.9	26.7	12.9
25-Nov	59.0	42.5	44.0	17.7	2.0	37.1	39.3	25.5	11.8
2-Dec	55.0	39.6	41.4	14.5	0.0	34.3	36.0	23.3	10.2
9-Dec	57.0	40.5	44.1	17.3	-1.0	35.0	38.4	25.3	11.7
16-Dec	54.0	39.9	40.6	13.8	-2.0	35.7	40.5	23.6	10.1
23-Dec	49.0	36.2	37.3	10.6	-18.0	32.2	38.1	22.1	9.2
31-Dec	49.0	36.2	37.7	10.7	-12.0	37.8	42.8	23.0	9.9

ELY/YELLAND FIELD

NV

WMO No. 724860

Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

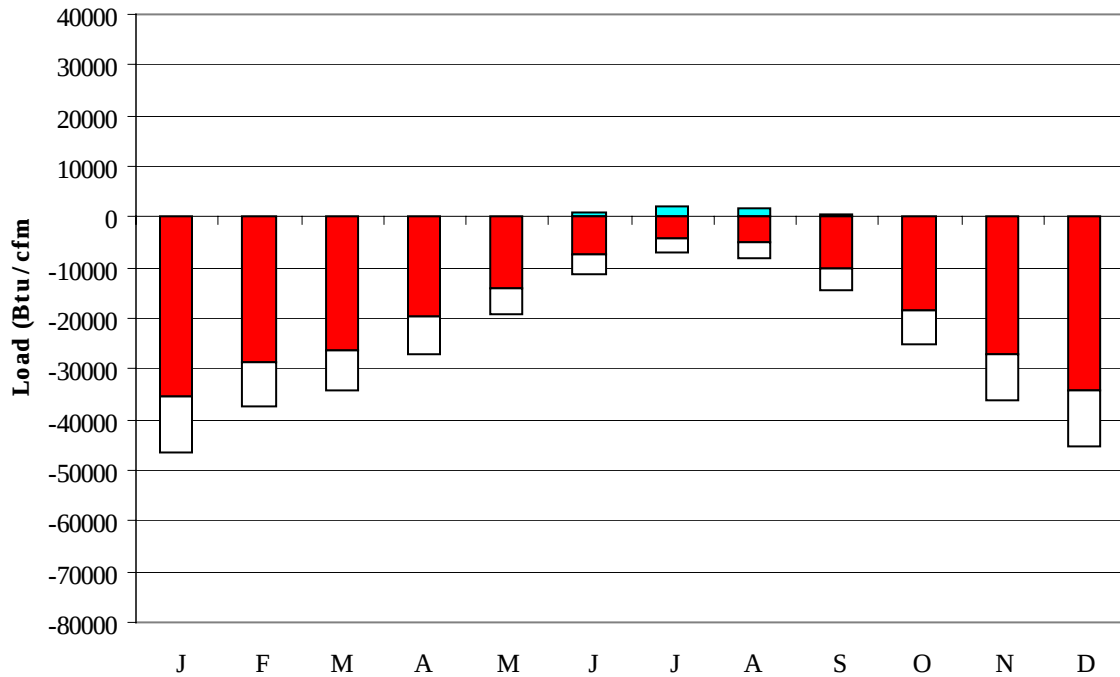
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1275
FEB	0	1017
MAR	0	919
APR	7	671
MAY	35	464
JUN	135	233
JUL	235	116
AUG	193	146
SEP	86	320
OCT	18	631
NOV	1	960
DEC	0	1226
ANN	710	7978

ELY/YELLAND FIELD

NV

WMO No. 724860

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



	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	-35454	0	-11006
FEB	0	-28567	0	-8882
MAR	0	-26232	0	-8172
APR	3	-19620	0	-7585
MAY	87	-14073	0	-4960
JUN	1040	-7475	0	-3971
JUL	2290	-4096	0	-2992
AUG	1716	-5005	3	-3199
SEP	501	-9960	0	-4356
OCT	34	-18552	0	-6759
NOV	0	-27195	0	-9054
DEC	0	-34180	0	-10970
ANN	5671	-230409	3	-81906

Average Annual Solar Radiation – Nearest Available Site

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

City: ELY
 State: NV
 WBAN No: 23154
 Lat(N): 39.28
 Long(W): 114.85
 Elev(ft): 6254

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.513
 Vert Gap: 0.317

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	810	1080	1430	1830	2090	2360	2320	2060	1760	1300	870	710	1550
	Std Dev	54	89	111	141	154	163	125	149	128	82	62	69	46
	Minimum	700	870	1200	1580	1730	2050	2010	1730	1340	1140	710	490	1440
	Maximum	920	1280	1690	2090	2320	2620	2630	2370	1950	1440	970	820	1630
	Diffuse	310	410	550	660	740	660	620	570	430	350	310	260	490
Clear Day	Global	1020	1380	1890	2390	2710	2840	2740	2450	2020	1510	1080	910	1910
NORTH	Global	210	280	360	460	590	690	640	490	360	280	220	190	400
	Diffuse	210	280	360	440	500	520	490	440	360	280	220	190	360
Clear Day	Global	170	220	290	410	610	740	670	470	320	240	180	150	370
EAST	Global	570	730	940	1150	1310	1430	1440	1330	1160	880	610	520	1010
	Diffuse	270	350	450	540	600	600	580	530	440	350	270	230	430
Clear Day	Global	810	1020	1280	1500	1600	1630	1590	1490	1320	1070	830	740	1240
SOUTH	Global	1420	1430	1300	1120	910	830	880	1070	1410	1560	1400	1360	1220
	Diffuse	380	460	520	550	560	540	530	520	480	430	380	340	470
Clear Day	Global	2210	2190	1940	1460	1070	900	960	1260	1710	2060	2160	2160	1670
WEST	Global	580	720	880	1040	1130	1250	1230	1140	1070	850	590	500	910
	Diffuse	270	350	460	550	610	620	600	550	450	360	270	230	440
Clear Day	Global	810	1020	1280	1500	1600	1630	1590	1490	1320	1070	830	740	1240

Average Annual Solar Heat and Illumination – Nearest Available Site

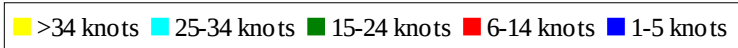
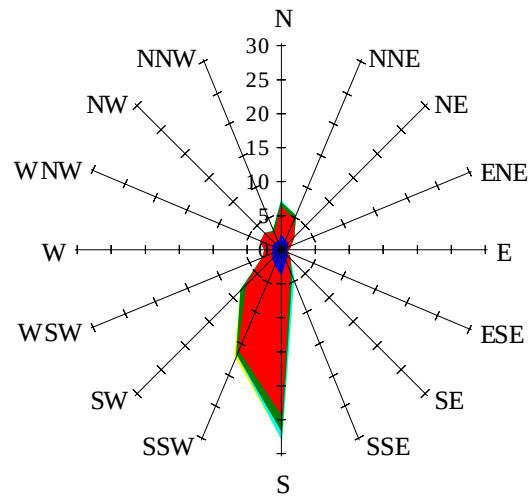
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	520	730	1010	1320	1520	1730	1700	1490	1260	900	570	440	1100
NORTH	Unshaded	150	190	250	310	380	430	400	320	250	200	150	130	260
	Shaded	130	170	230	280	340	390	370	290	230	180	140	120	240
EAST	Unshaded	390	510	670	830	940	1030	1030	960	830	620	420	360	720
	Shaded	360	460	590	720	820	890	900	840	740	560	380	330	630
SOUTH	Unshaded	1070	1050	900	720	550	480	510	660	940	1120	1050	1030	840
	Shaded	1050	980	710	460	360	340	340	390	660	1000	1020	1020	690
WEST	Unshaded	400	510	620	740	800	890	880	820	770	600	410	350	650
	Shaded	360	460	550	650	700	770	760	710	680	540	370	320	570

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	52	82	85	64	21	60	92	106	95	65
	M.Cloudy	35	57	59	42	14	45	71	82	70	45
NORTH	M.Clear	11	14	15	12	7	15	15	16	16	13
	M.Cloudy	12	16	17	14	6	15	17	18	17	14
EAST	M.Clear	83	51	15	12	7	89	67	20	16	13
	M.Cloudy	44	35	17	14	6	57	51	21	17	14
SOUTH	M.Clear	52	82	85	64	22	12	35	47	38	14
	M.Cloudy	30	52	53	36	11	13	30	40	32	14
WEST	M.Clear	11	14	34	79	69	12	15	16	60	86
	M.Cloudy	12	16	27	42	26	13	17	18	46	50
M.Clear	(% hrs)	35	30	28	25	27	64	57	46	43	40
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	41	76	89	78	43	24	48	50	27	0
	M.Cloudy	27	56	67	56	29	16	33	34	18	0
NORTH	M.Clear	9	13	15	14	10	7	10	10	7	0
	M.Cloudy	9	15	17	16	10	6	11	11	7	0
EAST	M.Clear	85	66	17	14	10	56	36	10	7	0
	M.Cloudy	43	46	18	16	10	25	22	11	7	0
SOUTH	M.Clear	32	65	78	67	34	59	95	98	65	0
	M.Cloudy	19	45	56	45	20	26	47	48	28	0
WEST	M.Clear	9	13	15	64	83	7	10	32	58	0
	M.Cloudy	9	15	17	44	41	6	11	21	25	0
M.Clear	(% hrs)	71	67	61	54	54	39	40	37	36	40

Wind Summary - December, January, and February

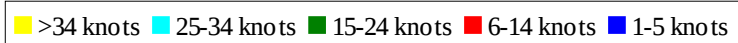
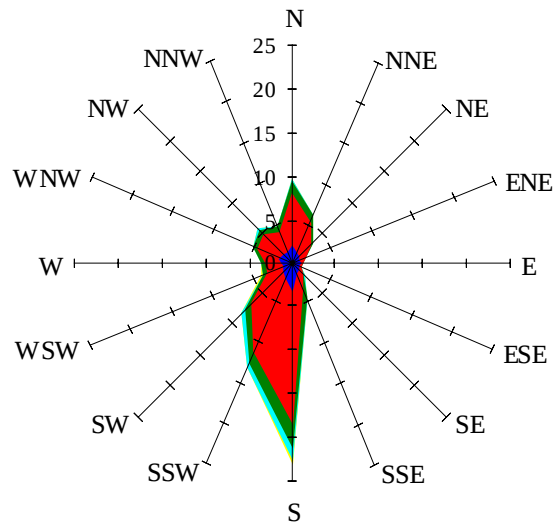
Labels of Percent Frequency on North Axis



Percent Calm = 8.23

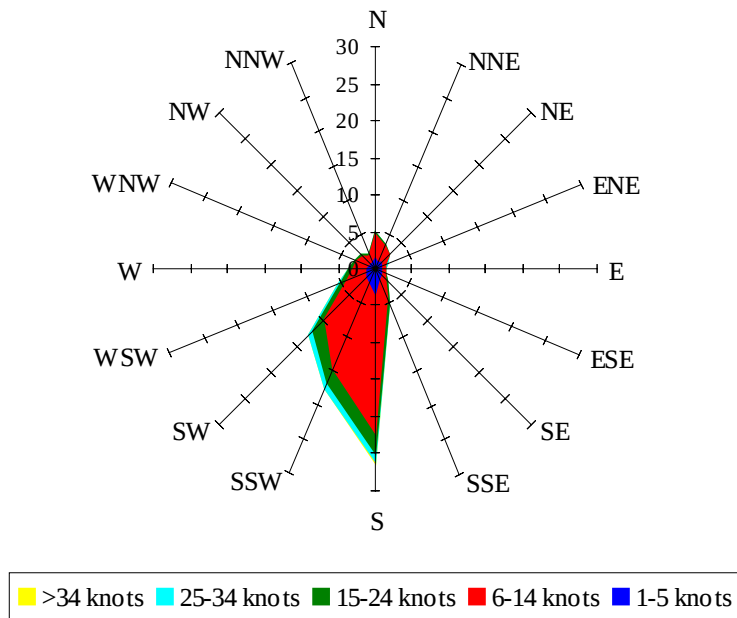
Wind Summary - March, April, and May

Labels of Percent Frequency on North Axis



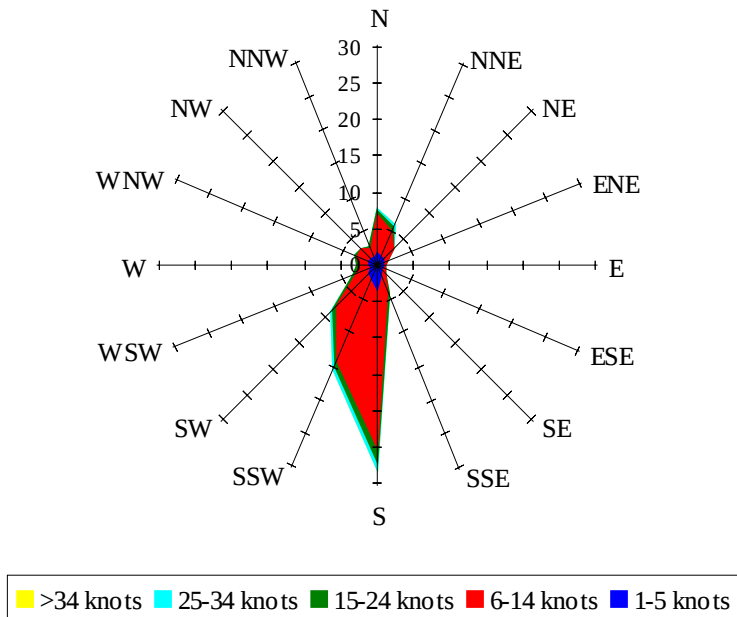
Percent Calm = 5.45

Wind Summary - June, July, and August **Labels of Percent Frequency on North Axis**



Percent Calm = 4.27

Wind Summary - September, October, and November **Labels of Percent Frequency on North Axis**



Percent Calm = 6.42