

HILL AFB/OGDEN	UT	
Latitude = 41.12 N		WMO No. 725755
Longitude = 111.90 W		Elevation = 4787 feet
Period of Record = 1967 to 1996		Average Pressure = 25.19 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	96	63	47	6.7	N
0.4% Occurrence	93	61	45	5.7	N
1.0% Occurrence	91	61	46	6.1	S
2.0% Occurrence	88	60	47	6.5	S
Mean Daily Range	17	-	-	-	-
97.5% Occurrence	16	14	10	8.3	ESE
99.0% Occurrence	12	10	8	9.8	ESE
99.6% Occurrence	7	5	6	11.3	ESE
Median of Extreme Lows	3	2	4	12.1	ESE
	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	67	85	88	6.4	NNW
0.4% Occurrence	65	84	79	6.8	S
1.0% Occurrence	64	83	75	6.7	S
2.0% Occurrence	62	83	65	7.2	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	100	71	0.56	6.1	ESE
0.4% Occurrence	89	72	0.50	7.5	ESE
1.0% Occurrence	80	73	0.45	8.0	ESE
2.0% Occurrence	74	74	0.42	7.4	ESE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		43	697	0	12

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
6	1.3	90	0.0 + 0.7
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 (#)
52.9	73	35	67

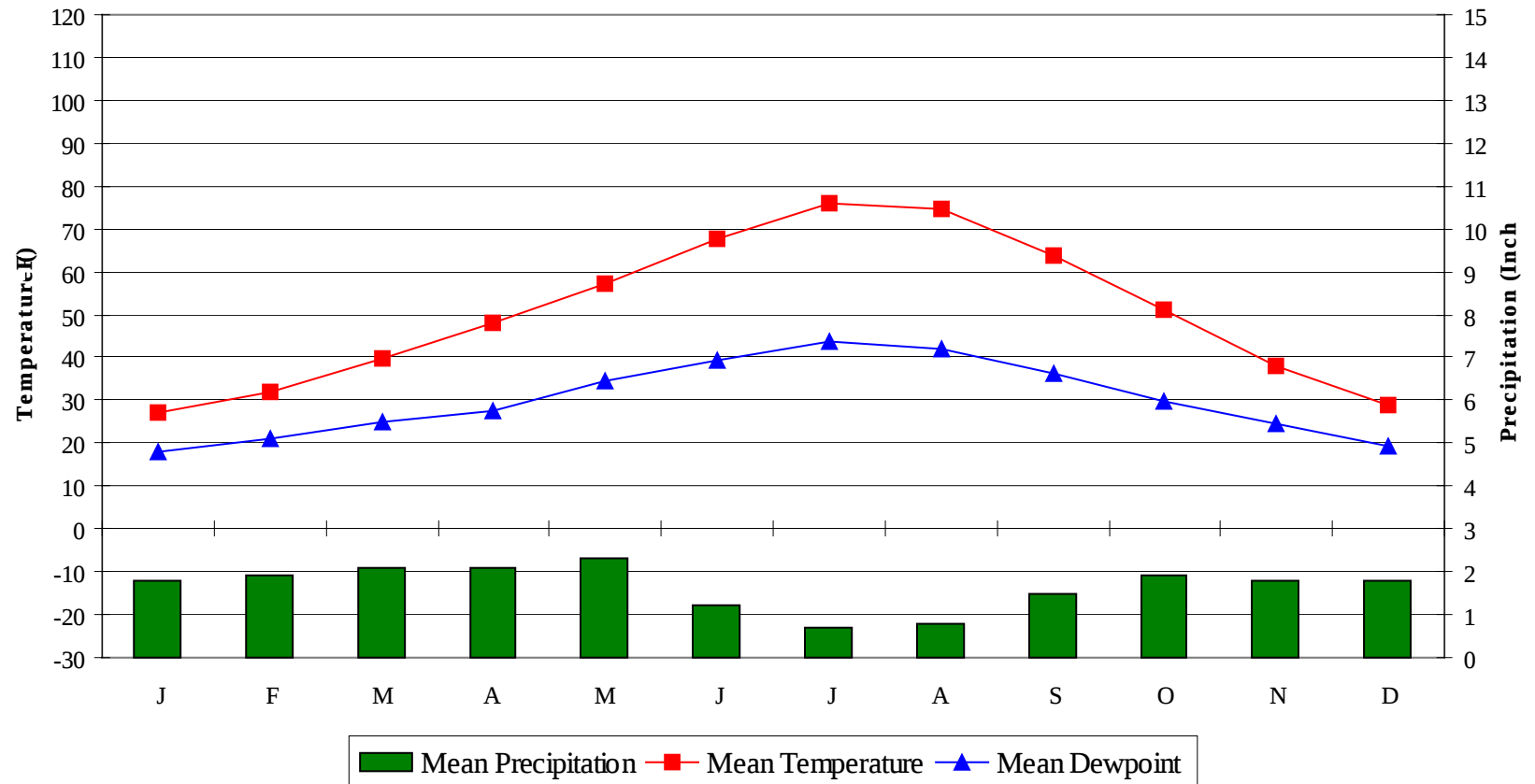
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

HILL AFB/OGDEN

UT

WMO No. 725755

Average Annual Climate

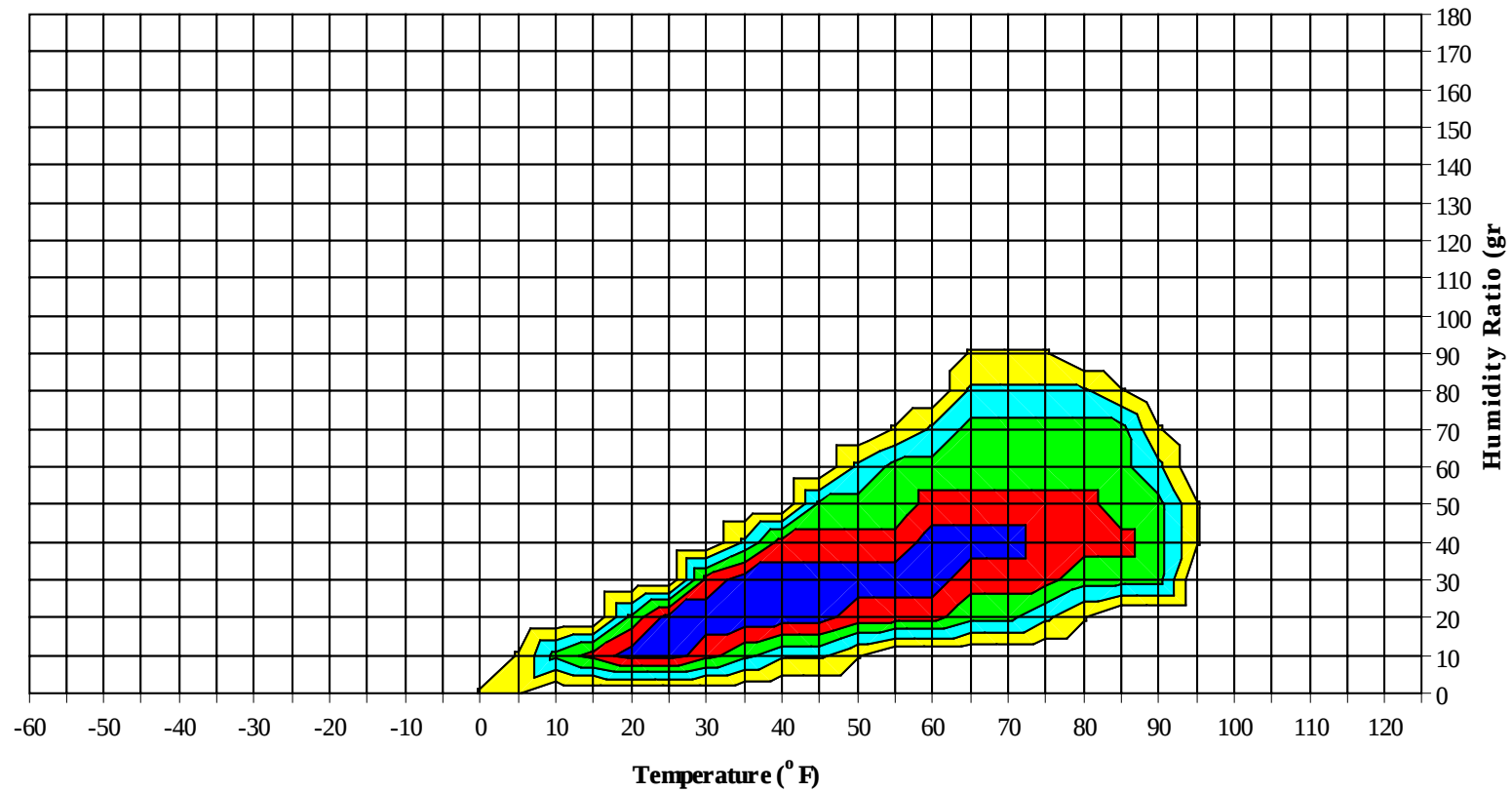


HILL AFB/OGDEN

UT

WMO No. 725755

Long Term Psychrometric Summary

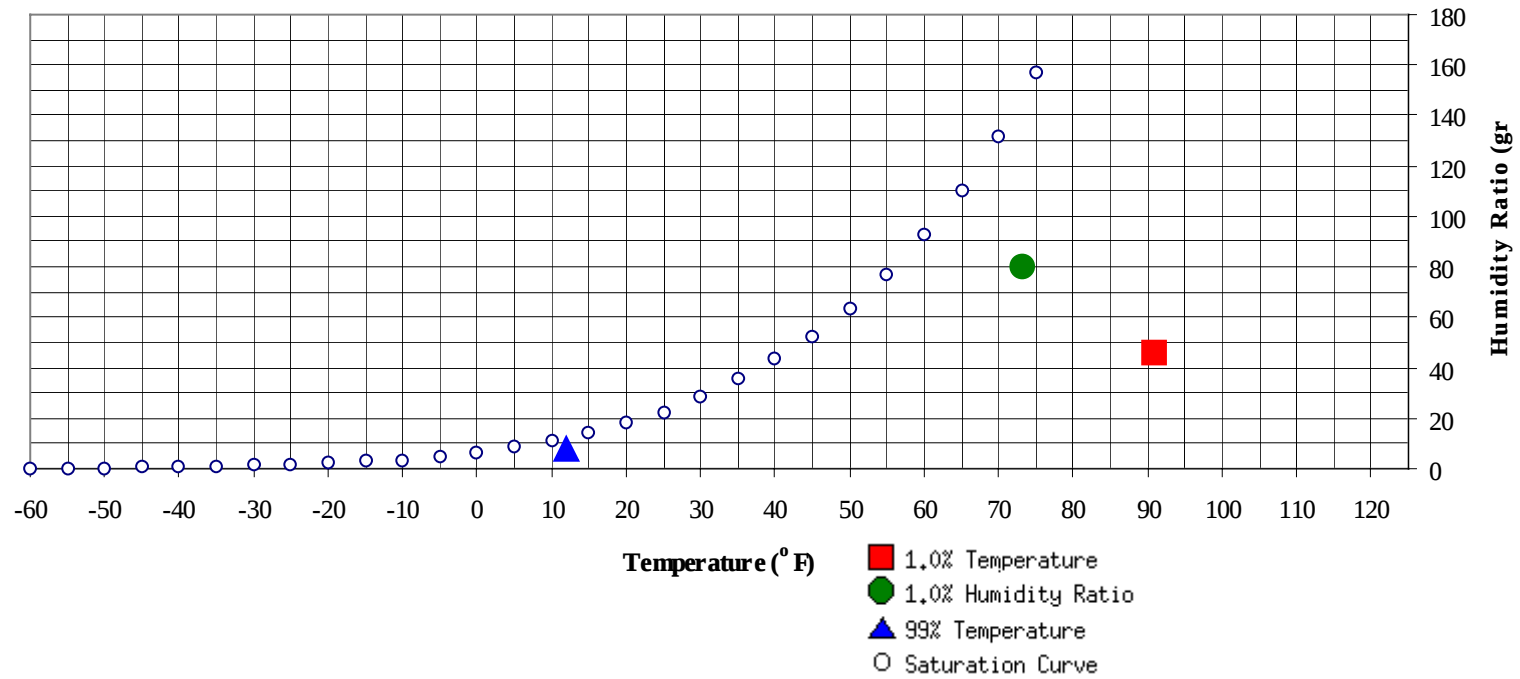


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

HILL AFB/OGDEN

UT

WMO No. 725755

Psychrometric Summary of Peak Design Values

	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
99% Dry Bulb	12	8	4.1		79.8	73.1	61.7	56	30.0

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	91	45.7	60.9	29.0

HILL AFB/OGDEN

UT

WMO No. 725755

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

Period of Record = 1967 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															
80 / 84															
75 / 79															
70 / 74												1	0	1	51.0
65 / 69												3	1	4	48.1
60 / 64							0	0	1	46.7	0	10	5	15	45.3
55 / 59							4	1	5	43.8	3	19	13	35	43.4
50 / 54	0	1	0	2	40.6	1	11	6	17	41.5	7	31	23	61	40.9
45 / 49	3	8	4	15	38.2	6	20	15	40	38.7	22	42	41	105	38.3
40 / 44	12	20	17	49	35.6	18	34	33	85	35.7	47	49	53	149	35.7
35 / 39	28	38	33	99	32.5	40	43	45	128	32.2	60	43	51	154	32.1
30 / 34	41	51	50	141	28.7	48	44	46	138	28.6	57	31	41	129	28.5
25 / 29	50	52	52	154	24.2	42	34	35	111	24.2	31	12	15	59	24.1
20 / 24	44	40	44	128	19.9	31	21	26	78	19.8	12	3	5	20	19.8
15 / 19	33	22	29	85	15.2	23	8	12	44	15.3	4	2	2	8	14.9
10 / 14	24	10	12	45	10.6	10	3	3	17	10.5	2	0	0	3	10.6
5 / 9	8	4	5	17	5.8	2	1	2	4	5.5	0			0	8.0
0 / 4	4	1	2	8	0.7	1	0	1	3	0.5					
-5 / -1	1	0	0	1	-3.0	1	0	0	1	-3.6					
-10 / -6						0			0	-6.5					
-15 / -11															

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.

HILL AFB/OGDEN

UT

WMO No. 725755

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**Period of Record = 1967 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												3	1	3	61.5
90 / 94												8	4	12	60.6
85 / 89		0		0	57.0		1	0	1	58.0	0	24	13	37	59.1
80 / 84		1	0	1	54.0		10	3	14	56.0	1	38	24	63	57.6
75 / 79		5	2	6	51.7		26	11	38	54.5	7	44	37	88	56.0
70 / 74	0	11	5	16	50.0	3	35	24	62	52.3	22	39	41	103	54.1
65 / 69	1	19	12	32	48.1	11	40	35	85	50.3	44	31	41	117	51.9
60 / 64	6	26	21	53	46.0	28	41	43	111	48.3	53	24	31	108	49.7
55 / 59	15	36	32	82	43.7	47	32	43	122	45.9	50	16	25	91	47.3
50 / 54	29	42	38	109	41.2	56	28	37	121	43.3	38	8	15	62	44.7
45 / 49	46	39	44	128	38.7	47	20	27	94	40.4	19	3	6	28	41.6
40 / 44	54	31	41	126	35.5	37	10	17	65	37.2	5	1	1	7	38.6
35 / 39	46	20	28	94	31.9	15	4	7	26	33.8	0	0	0	1	35.3
30 / 34	36	10	16	62	28.6	4	1	1	6	29.8					
25 / 29	7	1	2	10	25.1	0		0	0	26.7					
20 / 24	1		0	1	19.9										
15 / 19	0		0	0	16.5										
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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UT

WMO No. 725755

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)**Period of Record = 1967 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		0	0	0	62.8		0		0	67.8					
95 / 99		5	2	7	62.7		3	1	4	62.8					
90 / 94		0	36	18	61.4		28	11	39	60.9		2	0	2	60.1
85 / 89		0	59	33	60.4	0	54	27	81	59.9		13	4	17	58.5
80 / 84		4	62	52	59.2	2	63	45	111	58.9	0	28	12	39	56.8
75 / 79	26	46	58	129	57.7	19	47	59	125	57.2	2	41	23	66	55.0
70 / 74	70	25	48	143	55.9	63	30	55	148	55.2	12	47	40	99	53.3
65 / 69	81	10	22	113	53.9	85	13	30	129	53.4	28	38	46	111	51.1
60 / 64	45	4	10	59	51.3	48	6	13	67	50.3	54	30	47	131	49.0
55 / 59	16	1	3	21	48.9	21	2	5	28	47.1	56	21	31	108	46.1
50 / 54	5	0	1	7	45.8	7	1	1	10	45.1	42	13	20	75	43.0
45 / 49	0	0		1	43.2	2	0	0	2	41.1	26	7	10	44	40.3
40 / 44						0			0	38.0	13	2	5	21	36.4
35 / 39											5	0	1	6	32.6
30 / 34											0			0	27.8
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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HILL AFB/OGDEN UT

WMO No. 725755

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)**Period of Record = 1967 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															
85 / 89															
80 / 84		1	0	1	53.4										
75 / 79		7	1	9	52.4										
70 / 74	0	20	6	25	51.0										
65 / 69	2	30	14	46	49.2		1	0	1	47.9		0		0	46.0
60 / 64	9	40	30	79	47.0	0	7	2	9	46.4		0		0	45.2
55 / 59	25	42	43	110	44.5	2	18	8	27	44.4		2	1	2	42.9
50 / 54	50	38	48	136	42.2	8	28	17	53	41.5	1	5	2	8	40.4
45 / 49	58	32	44	134	39.2	23	38	33	94	38.8	5	12	7	24	38.2
40 / 44	50	21	33	103	36.1	39	43	45	127	35.7	14	24	16	54	35.6
35 / 39	31	10	19	61	32.4	53	40	47	140	31.9	29	43	37	108	32.1
30 / 34	17	5	8	30	28.5	50	33	44	128	28.2	47	60	55	163	28.2
25 / 29	5	1	2	7	24.2	35	20	27	82	24.2	57	49	60	167	24.1
20 / 24	1	0	0	1	19.3	18	8	10	37	20.0	48	28	38	114	20.0
15 / 19	0			0	17.0	8	2	5	15	15.2	27	14	19	60	15.4
10 / 14						3	1	1	5	11.0	12	6	8	27	10.6
5 / 9						1	0	0	1	6.7	5	3	3	10	5.8
0 / 4											2	1	1	3	1.1
-5 / -1											0	0	1	1	-3.3
-10 / -6											1	0	1	2	-7.9
-15 / -11											0	0		0	-11.8

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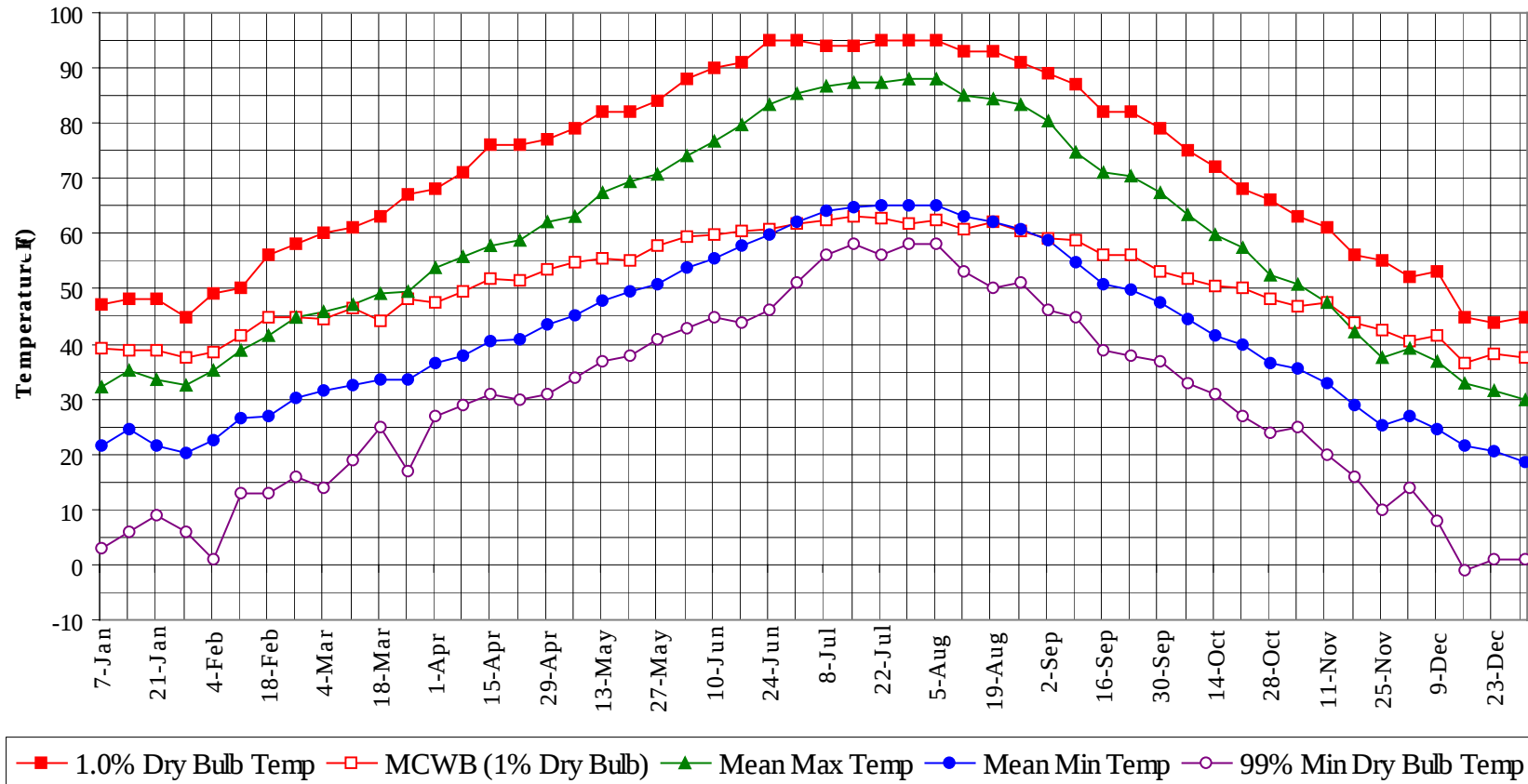
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1967 to 1996

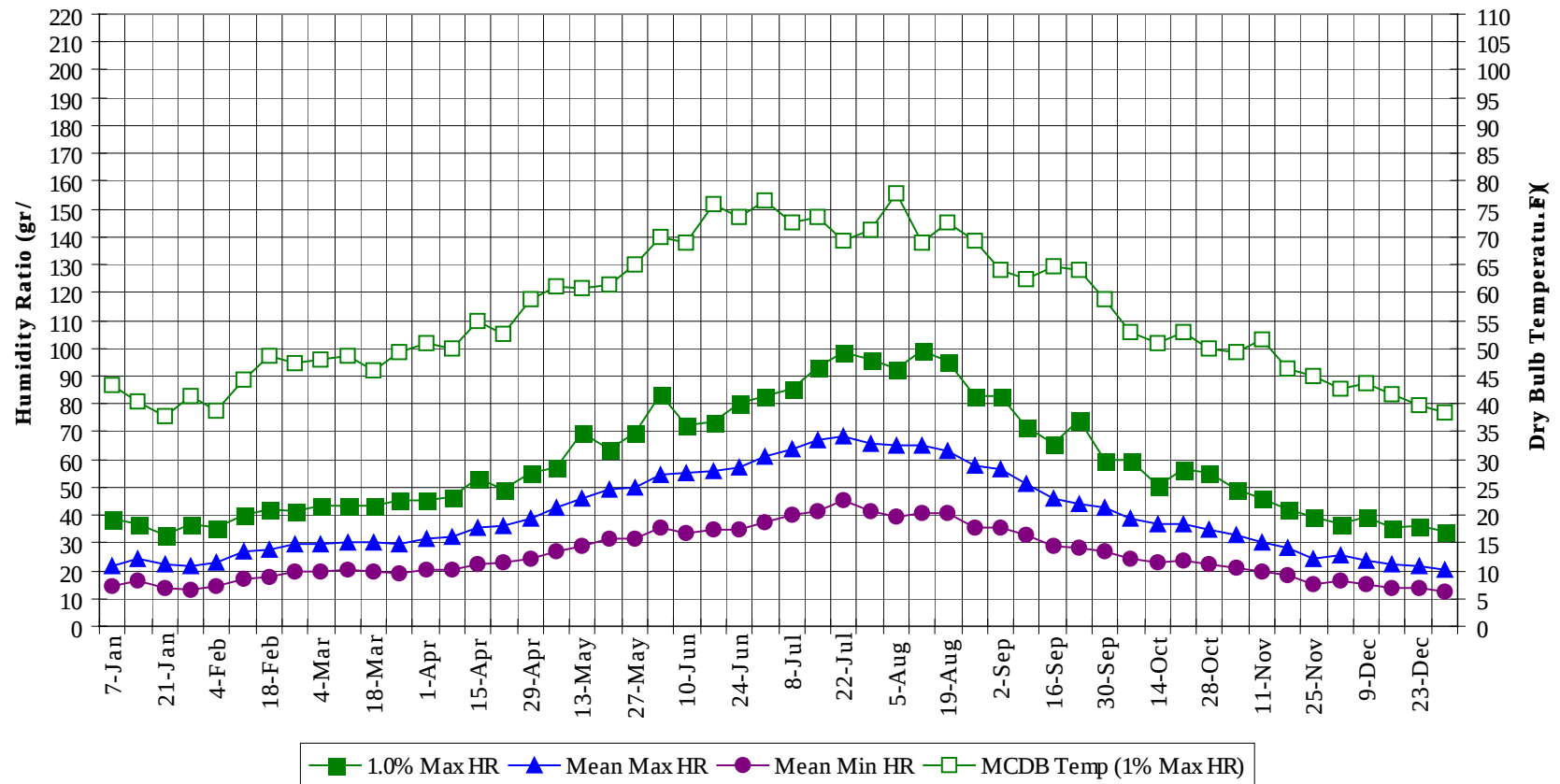
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		0	0	0	64.8
95 / 99		11	4	15	62.5
90 / 94	0	74	34	108	61.1
85 / 89	0	150	77	228	59.9
80 / 84	7	202	136	346	58.4
75 / 79	54	216	191	461	56.4
70 / 74	171	207	219	597	54.2
65 / 69	251	185	202	638	51.8
60 / 64	243	190	201	634	48.7
55 / 59	236	191	202	630	45.5
50 / 54	246	205	210	661	42.4
45 / 49	257	222	231	710	39.2
40 / 44	289	236	261	786	35.9
35 / 39	306	243	268	818	32.2
30 / 34	301	235	261	797	28.5
25 / 29	228	169	193	591	24.2
20 / 24	156	102	123	380	19.9
15 / 19	96	48	67	212	15.3
10 / 14	52	21	24	96	10.6
5 / 9	16	8	9	33	5.8
0 / 4	8	2	4	14	0.8
-5 / -1	2	1	1	4	-3.3
-10 / -6	1	0	1	2	-7.9
-15 / -11	0	0		0	-11.8

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



HILL AFB/OGDEN**UT****WMO No. 725755****Long Term Dry Bulb Temperature and Humidity Summary**

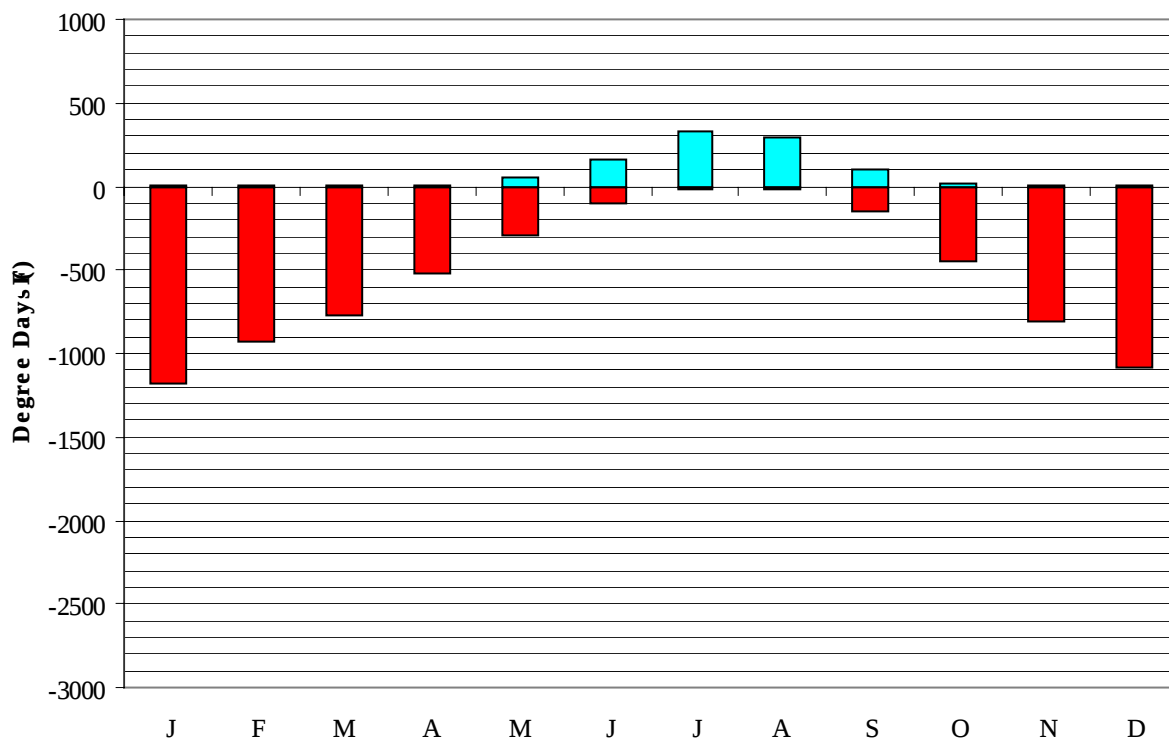
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	47.0	39.1	32.2	21.4	3.0	38.5	43.5	21.9	14.4
14-Jan	48.0	38.8	35.1	24.6	6.0	37.1	40.3	24.1	16.4
21-Jan	48.0	38.8	33.5	21.7	9.0	32.9	37.9	22.4	14.0
28-Jan	45.0	37.4	32.4	20.3	6.0	37.1	41.3	21.4	13.3
4-Feb	49.0	38.4	35.2	22.7	1.0	35.7	38.7	23.1	14.2
11-Feb	50.0	41.5	38.8	26.4	13.0	39.9	44.2	26.8	17.3
18-Feb	56.0	44.7	41.4	27.0	13.0	42.0	48.6	27.3	17.5
25-Feb	58.0	45.0	44.9	30.4	16.0	41.3	47.2	29.7	19.8
4-Mar	60.0	44.4	46.0	31.6	14.0	43.4	48.0	29.5	19.9
11-Mar	61.0	46.4	47.2	32.4	19.0	43.4	48.6	30.1	20.1
18-Mar	63.0	44.3	49.1	33.4	25.0	43.4	45.9	30.4	19.7
25-Mar	67.0	48.2	49.6	33.5	17.0	45.5	49.4	29.7	19.0
1-Apr	68.0	47.5	53.7	36.7	27.0	45.5	50.9	31.8	20.3
8-Apr	71.0	49.5	55.7	38.0	29.0	46.9	50.1	32.4	20.2
15-Apr	76.0	51.8	57.8	40.4	31.0	53.2	54.8	35.3	22.1
22-Apr	76.0	51.3	58.7	40.9	30.0	49.0	52.6	35.8	22.9
29-Apr	77.0	53.6	62.1	43.6	31.0	55.3	58.8	38.5	24.3
6-May	79.0	54.7	63.3	45.2	34.0	57.4	61.1	42.6	26.8
13-May	82.0	55.4	67.4	47.7	37.0	69.3	60.7	45.8	29.1
20-May	82.0	55.2	69.5	49.6	38.0	63.7	61.3	49.4	31.6
27-May	84.0	58.0	70.8	50.7	41.0	69.3	65.0	49.9	31.2
3-Jun	88.0	59.5	74.2	53.9	43.0	83.3	70.0	54.8	35.3
10-Jun	90.0	59.9	76.6	55.3	45.0	72.1	69.1	54.9	33.5
17-Jun	91.0	60.5	79.6	57.7	44.0	73.5	75.7	55.9	35.1
24-Jun	95.0	61.0	83.2	59.9	46.0	79.8	73.5	56.9	34.8
1-Jul	95.0	61.7	85.3	62.2	51.0	82.6	76.6	60.8	37.3
8-Jul	94.0	62.4	86.7	64.0	56.0	85.4	72.7	63.8	40.4
15-Jul	94.0	63.0	87.5	64.8	58.0	93.1	73.6	66.9	41.5
22-Jul	95.0	62.9	87.5	65.1	56.0	98.7	69.4	68.0	45.4
29-Jul	95.0	61.9	87.9	65.2	58.0	95.9	71.2	65.5	41.5
5-Aug	95.0	62.6	87.9	65.0	58.0	92.4	77.9	64.7	39.4
12-Aug	93.0	60.9	85.0	63.0	53.0	99.4	68.8	64.8	40.4
19-Aug	93.0	62.0	84.3	62.0	50.0	95.2	72.5	63.1	40.6
26-Aug	91.0	60.4	83.5	61.0	51.0	82.6	69.4	57.8	35.3
2-Sep	89.0	59.3	80.4	58.6	46.0	82.6	64.0	56.3	35.2
9-Sep	87.0	58.9	74.7	54.7	45.0	71.4	62.4	51.2	32.6
16-Sep	82.0	56.0	71.1	50.7	39.0	65.8	64.8	46.3	28.6
23-Sep	82.0	56.0	70.5	49.7	38.0	74.2	63.9	43.7	28.6
30-Sep	79.0	53.1	67.5	47.6	37.0	59.5	58.6	42.6	27.0
7-Oct	75.0	51.8	63.4	44.6	33.0	59.5	52.9	38.8	24.4
14-Oct	72.0	50.4	59.7	41.6	31.0	50.4	50.9	36.7	23.2
21-Oct	68.0	50.0	57.5	39.8	27.0	56.7	52.7	37.0	23.6
28-Oct	66.0	48.0	52.4	36.7	24.0	55.3	49.8	34.5	22.1
4-Nov	63.0	46.8	50.7	35.5	25.0	49.0	49.1	32.7	21.0
11-Nov	61.0	47.4	47.7	33.0	20.0	46.2	51.6	30.3	19.5
18-Nov	56.0	43.8	42.1	28.8	16.0	42.0	46.5	28.4	18.1
25-Nov	55.0	42.6	37.6	25.2	10.0	39.2	45.1	24.6	15.4
2-Dec	52.0	40.6	39.3	26.8	14.0	37.1	42.7	25.6	16.5
9-Dec	53.0	41.6	36.9	24.5	8.0	39.2	43.8	23.3	14.9
16-Dec	45.0	36.4	33.0	21.7	-1.0	35.7	41.7	22.3	13.7
23-Dec	44.0	38.3	31.4	20.6	1.0	36.4	39.7	21.7	13.9
31-Dec	45.0	37.7	29.8	18.7	1.0	34.3	38.5	20.1	12.5

HILL AFB/OGDEN

UT

WMO No. 725755

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



■ Mean Cooling Degree Days
 ■ Mean Heating Degree Days

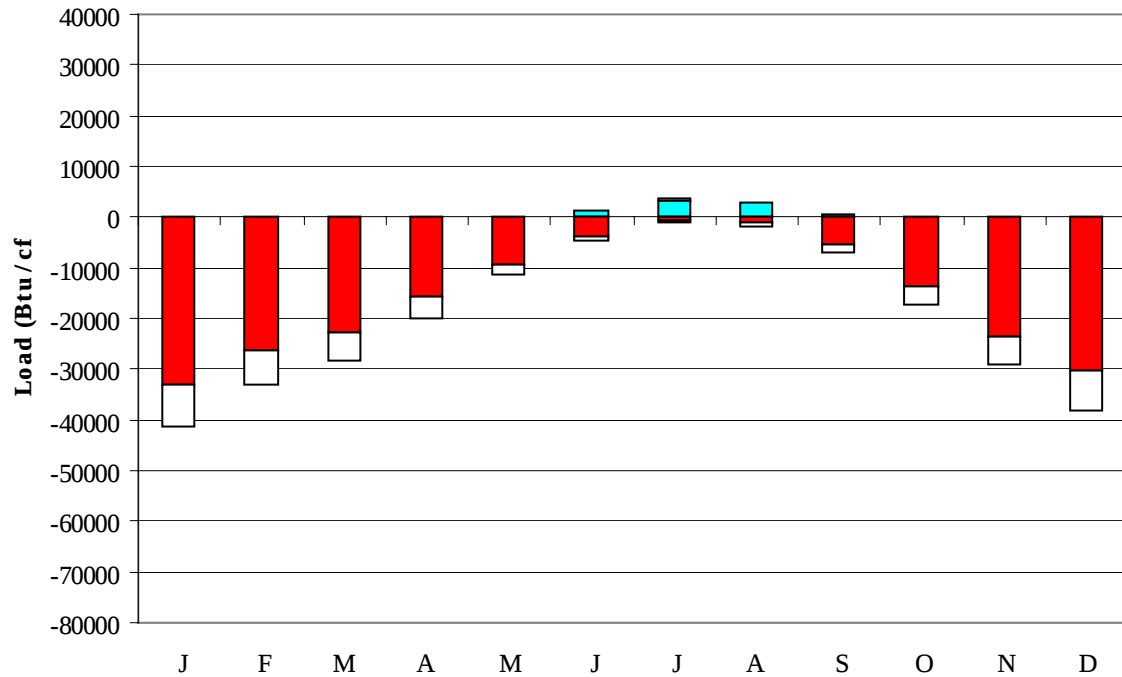
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1176
FEB	0	933
MAR	0	778
APR	10	522
MAY	49	291
JUN	166	105
JUL	329	17
AUG	295	23
SEP	106	151
OCT	14	446
NOV	0	812
DEC	0	1080
ANN	970	6334

HILL AFB/OGDEN

UT

WMO No. 725755

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 (Drying) Load	■ Average Latent Heating (Humidifying) Load

	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	-32895	0	-8550
FEB	0	-26382	0	-6656
MAR	0	-22569	0	-5634
APR	14	-15733	0	-4442
MAY	178	-9432	1	-2027
JUN	1410	-3826	6	-842
JUL	3464	-848	33	-386
AUG	2910	-1095	31	-817
SEP	650	-5323	1	-1756
OCT	20	-13783	0	-3595
NOV	0	-23382	0	-5822
DEC	0	-30315	0	-7828
ANN	8646	-185583	72	-48355

Average Annual Solar Radiation – Nearest Available Site

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

City: SALT LAKE CITY
 State: UT
 WBAN No: 24127
 Lat(N): 40.77
 Long(W): 111.97
 Elev(ft): 4226

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.556
 Vert Gap: 0.324

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	610	920	1300	1710	2060	2330	2320	2060	1660	1170	710	530	1450
	Std Dev	62	83	112	126	157	149	113	98	117	89	69	65	50
	Minimum	490	710	970	1430	1730	1980	2140	1920	1370	980	560	360	1320
	Maximum	770	1060	1490	1920	2370	2570	2520	2280	1870	1330	850	660	1540
	Diffuse	350	440	560	680	720	670	610	550	450	360	330	300	500
Clear Day	Global	890	1260	1770	2290	2640	2770	2670	2370	1920	1390	960	790	1810
NORTH	Global	200	270	350	450	570	660	620	480	360	270	210	180	390
	Diffuse	200	270	350	440	490	520	490	430	360	270	210	180	350
Clear Day	Global	180	240	310	420	600	720	660	460	340	260	190	160	380
EAST	Global	400	590	800	1010	1190	1330	1330	1240	1050	780	480	350	880
	Diffuse	250	340	430	530	590	610	590	530	450	340	260	220	430
Clear Day	Global	690	920	1180	1420	1550	1590	1550	1430	1250	980	730	620	1160
SOUTH	Global	940	1160	1200	1090	950	880	930	1130	1370	1440	1090	880	1090
	Diffuse	370	450	510	560	560	550	530	520	480	420	360	330	470
Clear Day	Global	1960	2040	1880	1480	1120	950	1010	1290	1700	1950	1950	1890	1600
WEST	Global	410	600	800	1000	1160	1270	1280	1170	1020	770	480	360	860
	Diffuse	250	340	440	540	600	620	590	540	450	350	260	220	430
Clear Day	Global	690	920	1180	1420	1550	1590	1550	1430	1250	980	730	620	1160

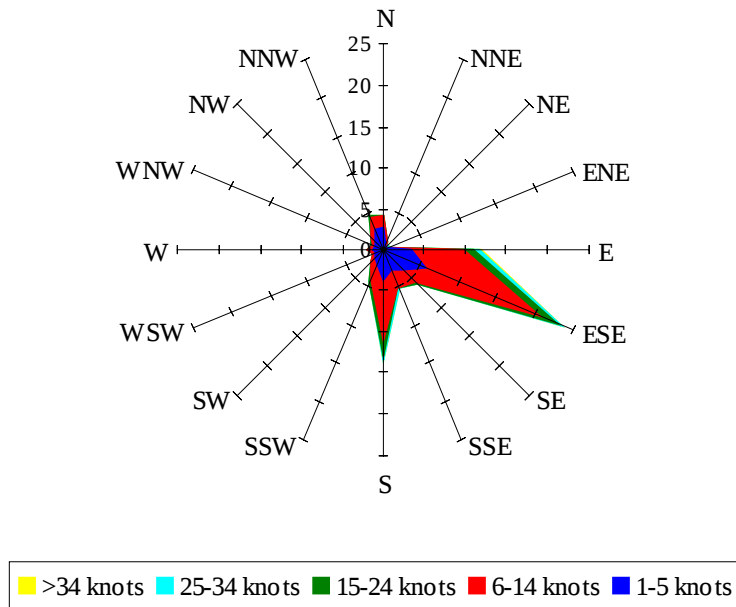
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	400	630	920	1230	1500	1710	1710	1500	1190	810	470	340	1030
NORTH	Unshaded	140	190	240	300	370	420	390	310	250	190	140	120	260
	Shaded	120	170	220	270	330	380	350	290	230	170	130	110	230
EAST	Unshaded	280	410	570	720	850	950	950	890	750	550	330	240	630
	Shaded	240	360	490	620	720	800	810	760	650	490	290	210	540
SOUTH	Unshaded	710	850	840	710	580	510	540	700	930	1040	810	670	740
	Shaded	680	790	650	450	350	340	340	390	640	910	780	640	580
WEST	Unshaded	280	420	570	710	830	910	920	840	730	540	330	250	610
	Shaded	250	370	490	610	700	770	780	720	630	480	290	220	530

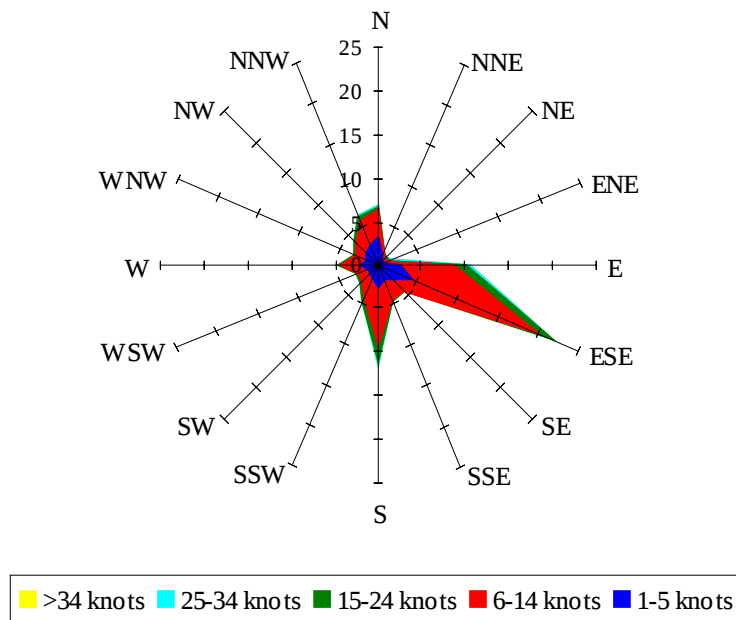
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	31	67	82	72	37	42	79	101	100	78
	M.Cloudy	19	44	56	47	23	28	58	78	77	57
NORTH	M.Clear	8	13	15	14	9	21	14	16	16	14
	M.Cloudy	8	14	17	15	9	15	16	18	18	16
EAST	M.Clear	73	64	18	14	9	80	78	41	16	14
	M.Cloudy	27	36	18	15	9	40	54	35	18	16
SOUTH	M.Clear	32	69	85	74	38	10	27	46	46	27
	M.Cloudy	15	38	51	41	19	10	24	39	38	23
WEST	M.Clear	8	13	15	62	77	10	14	16	42	79
	M.Cloudy	8	14	17	36	32	10	16	18	36	53
M.Clear	(% hrs)	30	29	28	28	27	59	58	57	52	50
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	20	61	82	82	56	7	34	45	32	4
	M.Cloudy	13	42	61	60	39	5	21	29	21	3
NORTH	M.Clear	6	12	14	15	12	3	9	11	9	2
	M.Cloudy	5	13	16	16	12	2	9	11	8	2
EAST	M.Clear	62	77	38	15	12	25	42	11	9	2
	M.Cloudy	24	46	30	16	12	7	19	11	8	2
SOUTH	M.Clear	15	53	75	74	48	20	71	88	68	13
	M.Cloudy	8	34	52	51	30	6	28	37	27	5
WEST	M.Clear	6	12	14	44	78	3	9	13	44	18
	M.Cloudy	5	13	16	33	45	2	9	12	20	6
M.Clear	(% hrs)	61	62	61	57	59	21	23	24	23	23

Wind Summary - December, January, and February **Labels of Percent Frequency on North Axis**



Percent Calm = 16.43

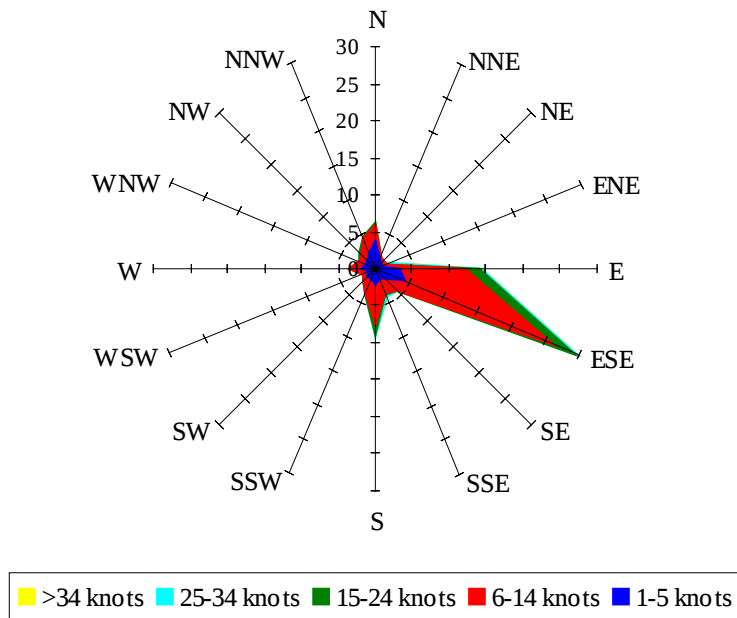
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 8.44

Wind Summary - June, July, and August

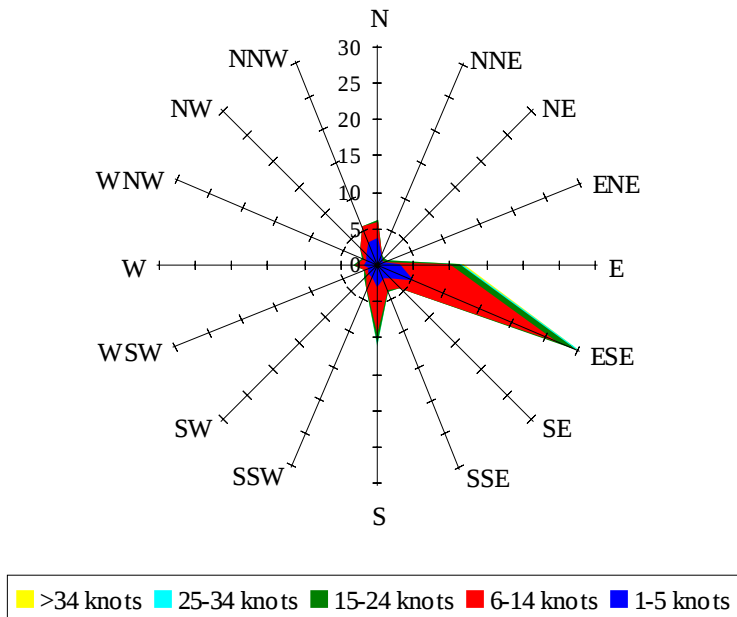
Labels of Percent Frequency on North Axis



Percent Calm = 5.72

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 10.07