

HOLLOMAN AFB NM

Latitude = 32.85 N

Longitude = 106.10 W

Period of Record = 1967 to 1996

WMO No. 747320

Elevation = 4095 feet

Average Pressure = 25.84 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	104	65	43	7.7	W
0.4% Occurrence	99	64	48	8.1	W
1.0% Occurrence	97	64	50	8.4	S
2.0% Occurrence	94	63	52	7.8	S
Mean Daily Range	27	-	-	-	-
97.5% Occurrence	27	24	15	3.3	N
99.0% Occurrence	23	20	13	3.4	N
99.6% Occurrence	19	17	11	3.4	N
Median of Extreme Lows	13	11	9	2.8	E
	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	88	110	7.1	S
0.4% Occurrence	69	86	95	6.2	S
1.0% Occurrence	68	85	90	6.5	S
2.0% Occurrence	67	85	86	6.4	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	118	73	0.68	5.5	S
0.4% Occurrence	108	75	0.62	5.7	S
1.0% Occurrence	103	70	0.60	6.3	NNW
2.0% Occurrence	97	72	0.56	4.8	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		267	1530	3	278

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	2.0	N/A	0.1 + 1.8
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 (#)
63.3	4	5	73

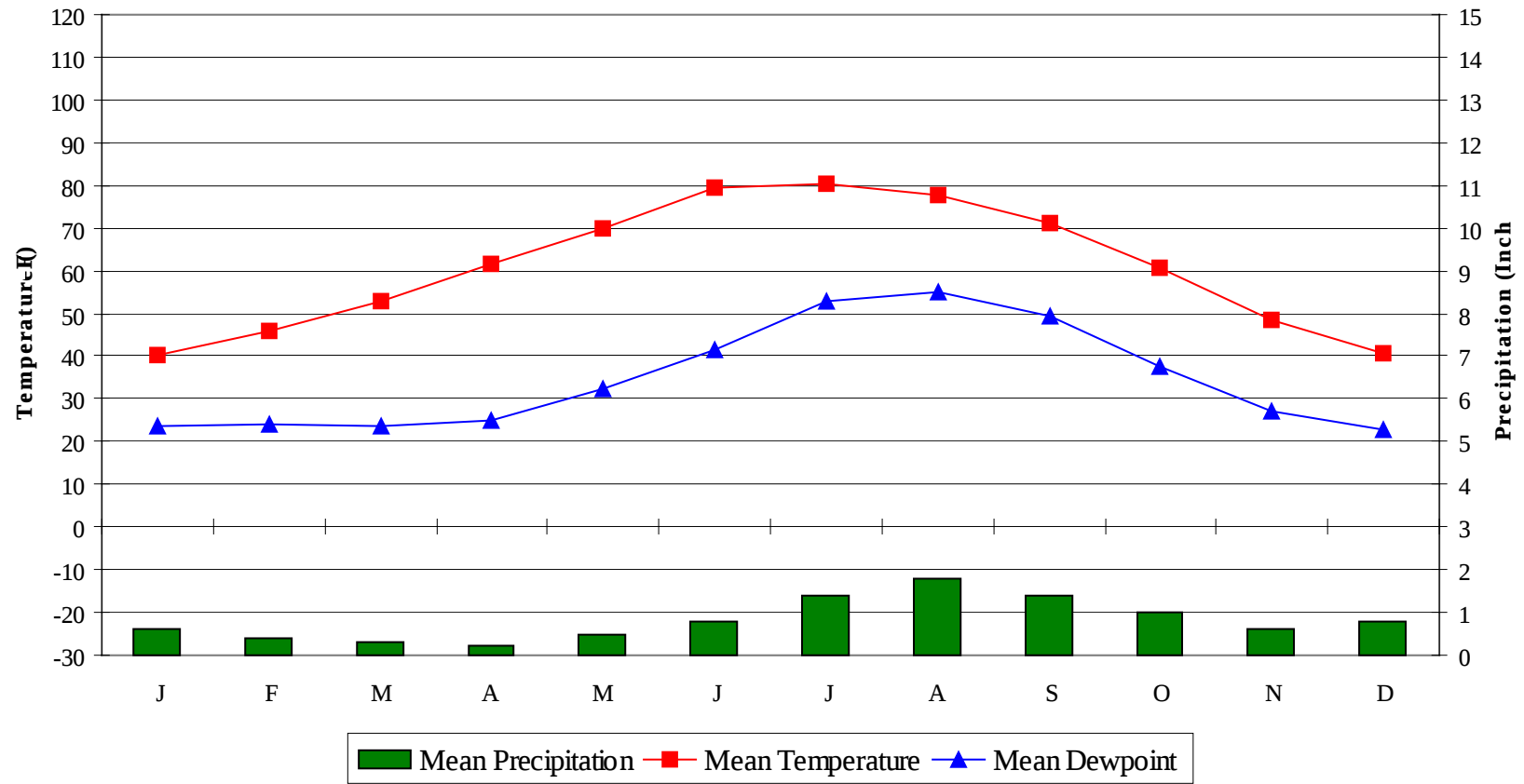
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

HOLLOMAN AFB

NM

WMO No. 747320

Average Annual Climate

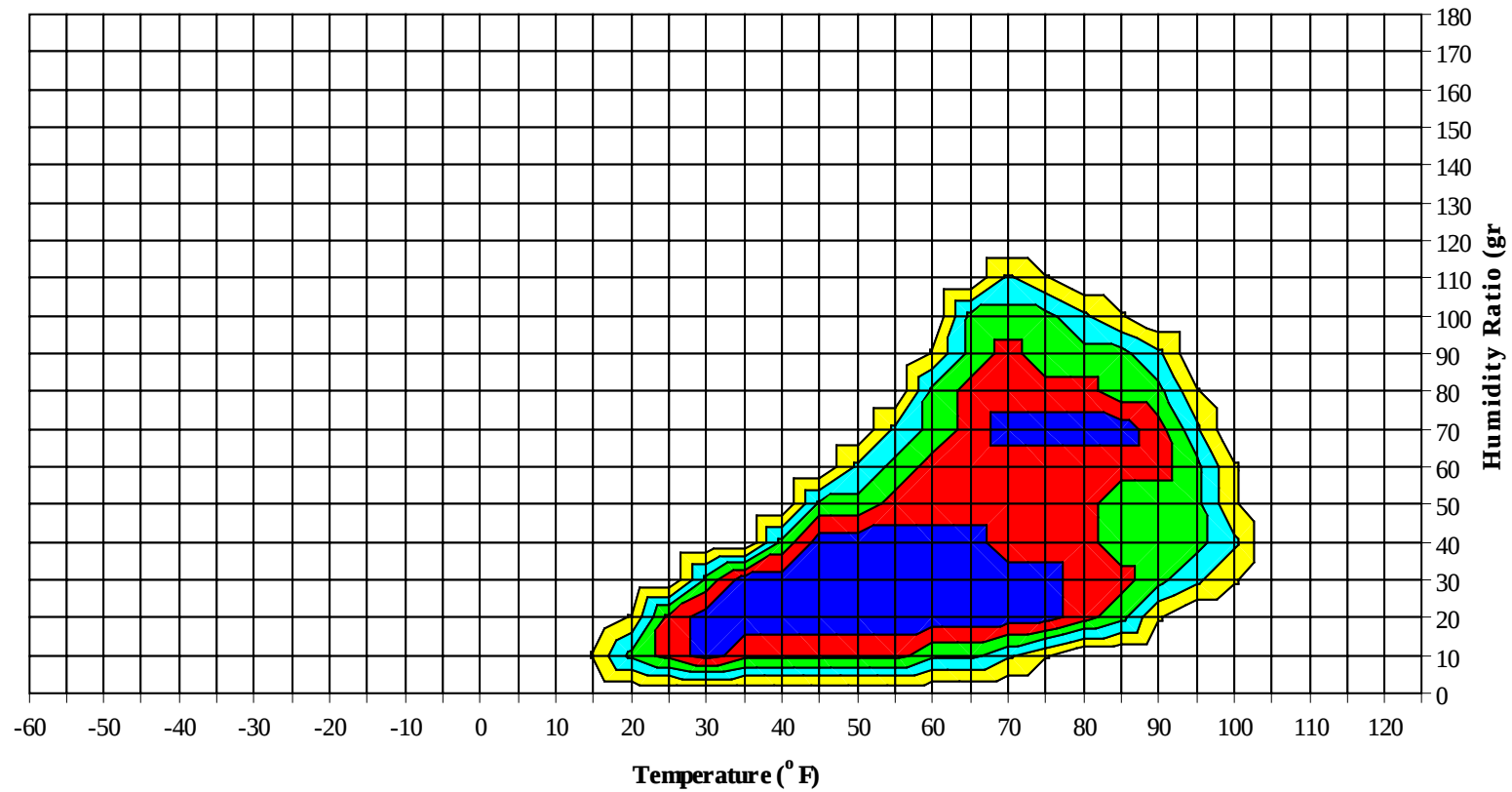


HOLLOMAN AFB

NM

WMO No. 747320

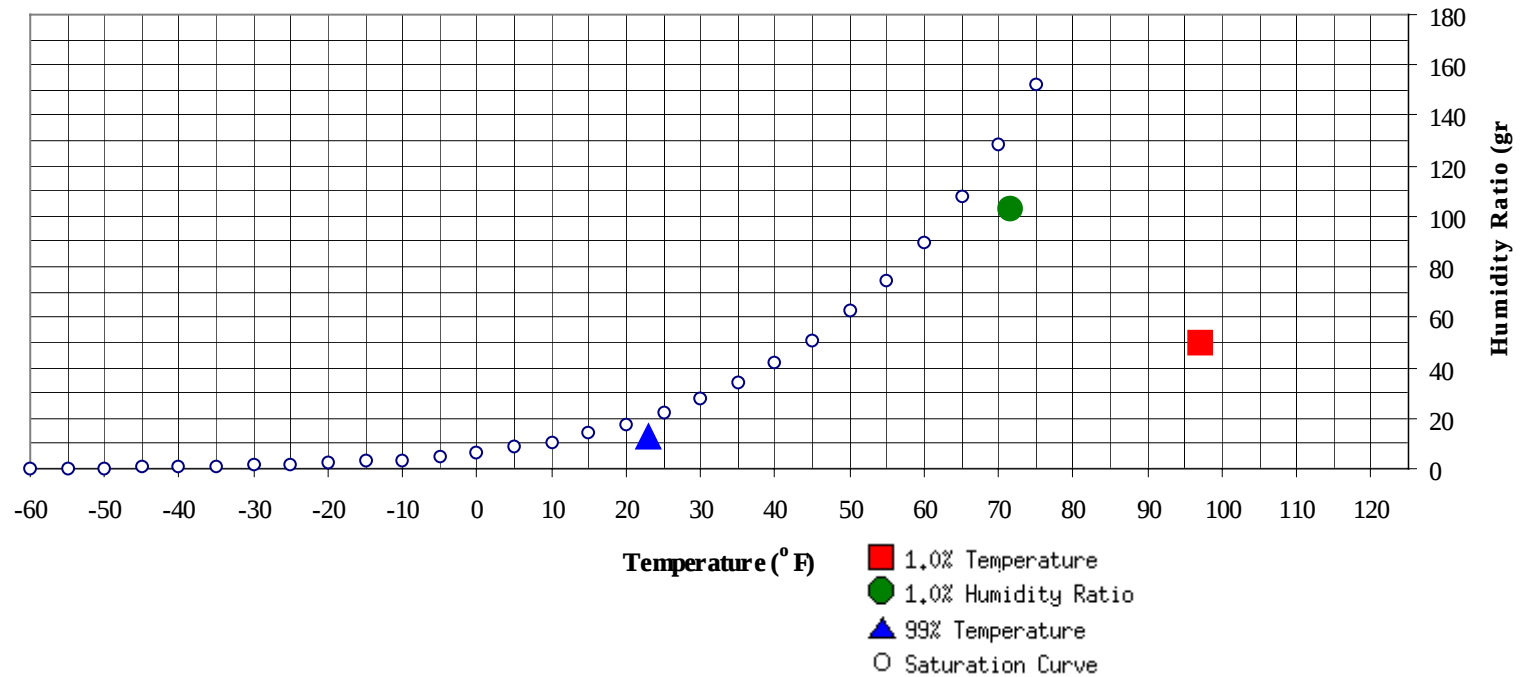
Long Term Psychrometric Summary



HOLLOMAN AFB

NM

WMO No. 747320

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	23	12.8	7.5		102.9	71.7	66.4	64	33.3

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	97	50.2	64.1	31.2

HOLLOMAN AFB

NM

WMO No. 747320

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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94												0		0	56.0
85 / 89											1	0		1	55.0
80 / 84							0	0	0	52.1	3	1		4	53.2
75 / 79		0		0	48.5		1	0	1	51.3	15	5		20	50.9
70 / 74		1	0	1	48.8		8	2	10	48.4	33	14		47	48.8
65 / 69		7	1	8	46.8	0	20	7	27	47.0	1	41	24	67	46.5
60 / 64	0	19	5	24	45.0	1	35	17	53	45.1	6	44	37	88	44.5
55 / 59	1	36	12	49	42.9	4	42	28	75	42.7	14	41	41	97	42.5
50 / 54	4	47	26	77	40.9	14	43	36	94	40.9	32	35	44	111	40.2
45 / 49	14	45	41	101	38.4	24	33	44	100	38.6	46	20	39	104	37.8
40 / 44	27	38	48	113	35.4	34	23	41	98	35.3	55	10	25	90	34.8
35 / 39	42	28	50	121	31.8	49	13	29	92	31.8	49	4	12	65	31.1
30 / 34	60	17	39	116	28.3	50	5	14	70	28.1	30	1	5	36	27.6
25 / 29	58	8	19	85	24.2	32	1	4	37	23.7	13	0	1	14	23.4
20 / 24	31	2	4	37	19.8	10	1	1	12	19.0	2			2	19.1
15 / 19	9	0	1	10	15.5	3	0	0	3	14.9	0			0	15.7
10 / 14	2	0	0	2	11.3	1			1	11.1					
5 / 9	0		0	0	6.3	0			0	8.7					
0 / 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.

HOLLOMAN AFB

NM

WMO No. 747320

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		
110 / 114												0		0	67.0
105 / 109												1	0	1	64.7
100 / 104							0	0	0	63.0		14	6	20	63.9
95 / 99		0		0	59.5		4	1	5	60.4		36	17	53	62.5
90 / 94		1	0	1	56.8		19	8	28	58.6	0	56	30	86	61.1
85 / 89		9	2	11	55.7	0	40	19	59	57.0	3	56	38	97	59.9
80 / 84		29	11	40	53.5	1	60	32	94	55.1	14	42	46	102	58.8
75 / 79	0	47	24	71	51.4	6	52	39	97	53.3	34	23	42	99	57.4
70 / 74	3	52	35	90	49.3	20	36	48	104	51.8	58	9	30	97	56.1
65 / 69	12	40	42	95	47.3	38	20	40	99	50.0	60	4	20	84	53.9
60 / 64	29	29	43	101	45.1	54	10	32	97	48.1	43	1	8	52	51.5
55 / 59	42	18	35	95	42.9	60	4	18	83	45.7	21	0	2	23	46.7
50 / 54	46	10	24	80	40.3	42	2	7	51	42.8	6		0	6	44.1
45 / 49	44	4	14	62	37.0	17	1	2	20	38.9	1			1	41.3
40 / 44	33	1	6	40	33.9	6		0	6	34.5					
35 / 39	20	1	2	23	30.7	2		0	2	30.4					
30 / 34	8	0	1	9	27.9	0			0	23.5					
25 / 29	1			1	23.1										
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 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.

HOLLOMAN AFB

NM

WMO No. 747320

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		
110 / 114															
105 / 109		0	0	0	64.7		0	0	0	66.7					
100 / 104		8	3	11	64.8		1	0	1	65.6					
95 / 99		34	15	49	64.9		16	5	21	65.6		3	0	3	65.2
90 / 94	0	61	29	90	64.8		55	21	76	65.6		19	5	24	63.3
85 / 89	1	62	43	107	64.5	0	65	36	102	65.2		46	17	63	62.4
80 / 84	18	47	57	122	63.6	6	57	53	116	64.4	0	58	31	89	61.4
75 / 79	51	24	52	127	62.5	32	32	58	122	63.4	7	49	42	98	60.6
70 / 74	85	11	34	130	61.6	78	17	47	143	62.3	26	33	54	114	59.4
65 / 69	69	2	13	84	60.0	90	5	22	118	60.7	59	19	47	125	58.2
60 / 64	21	0	2	23	57.4	37	1	4	42	57.9	72	8	29	109	55.5
55 / 59	2		0	2	53.0	4			4	53.8	47	4	11	62	51.4
50 / 54						0			0	54.0	21	1	3	25	46.6
45 / 49											7	0	0	7	41.9
40 / 44											0			0	37.3
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 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.

HOLLOMAN AFB

NM

WMO No. 747320

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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94		1	0	1	58.2										
85 / 89		9	2	11	57.2										
80 / 84		28	7	35	56.4		1		1	53.8					
75 / 79	0	50	16	66	55.3		6	0	6	52.0		0		0	51.0
70 / 74	1	52	28	81	54.2		24	4	28	50.4		2	0	2	48.3
65 / 69	9	42	41	92	52.6	0	35	11	46	48.5		10	0	10	46.7
60 / 64	27	34	50	111	50.7	2	41	21	64	46.8	0	24	5	29	45.0
55 / 59	48	21	46	115	48.0	11	41	33	85	44.9	2	36	12	50	43.1
50 / 54	56	8	33	97	44.6	21	37	40	98	42.2	7	47	26	81	40.9
45 / 49	57	4	17	78	40.9	34	29	46	109	38.8	18	41	39	98	38.4
40 / 44	33	1	5	39	36.9	45	16	38	99	35.5	22	37	48	107	35.2
35 / 39	10	0	2	12	32.6	55	7	26	89	31.8	40	28	52	120	31.9
30 / 34	4	0	1	5	29.0	37	3	14	54	27.8	63	15	41	119	28.1
25 / 29	1	0	0	1	26.1	22	1	5	28	23.5	57	7	18	82	24.1
20 / 24	0	0		0	22.9	8	0	1	9	19.7	27	2	4	33	19.4
15 / 19						2	0	0	2	15.4	8	1	1	10	15.0
10 / 14						1	0	0	1	11.4	2	0	1	3	10.3
5 / 9						0		0	0	6.2	1	0	0	1	6.3
0 / 4						0			0	3.5	0			0	3.0

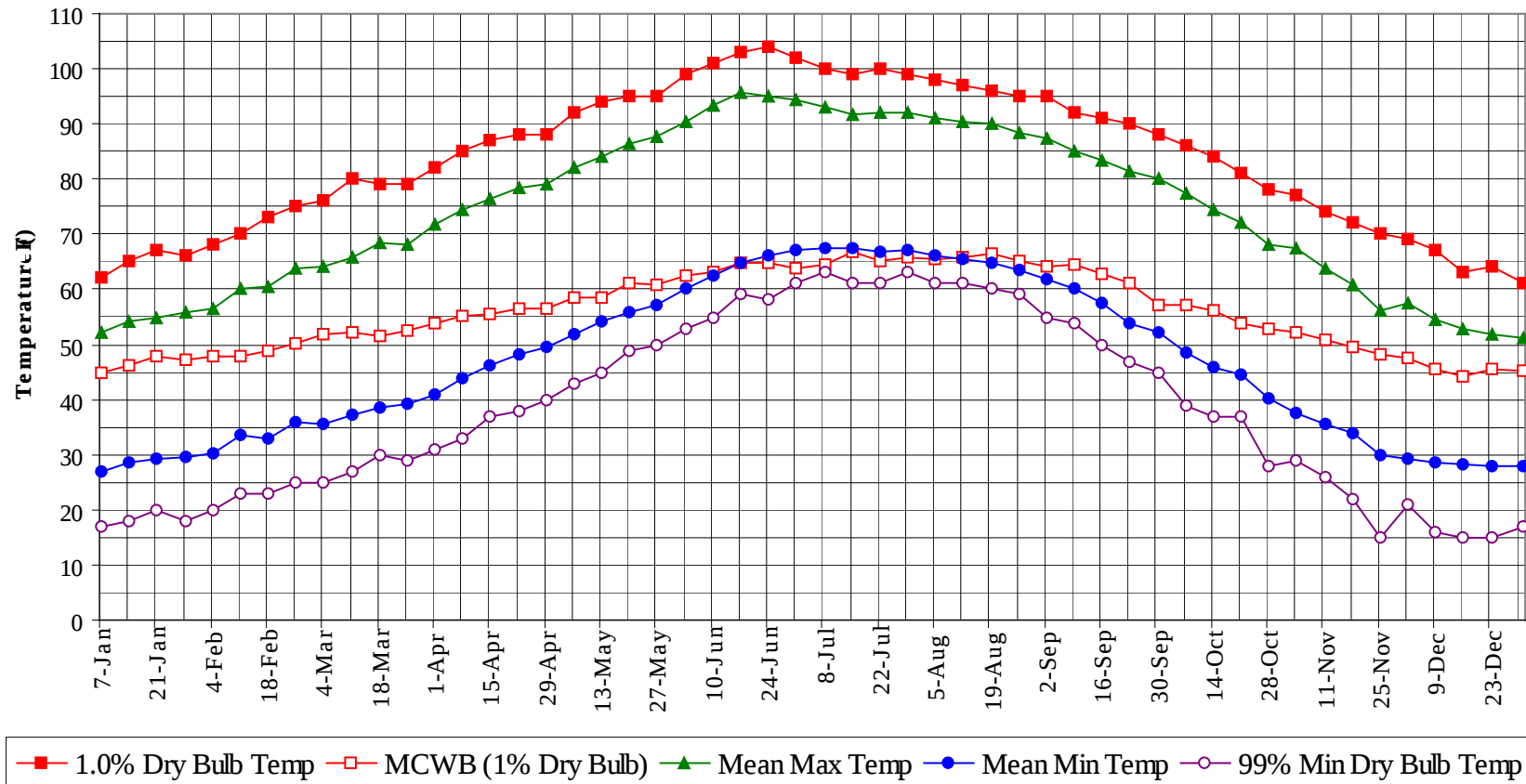
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

HOLLOMAN AFB NM WMO No. 747320
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1967 to 1996

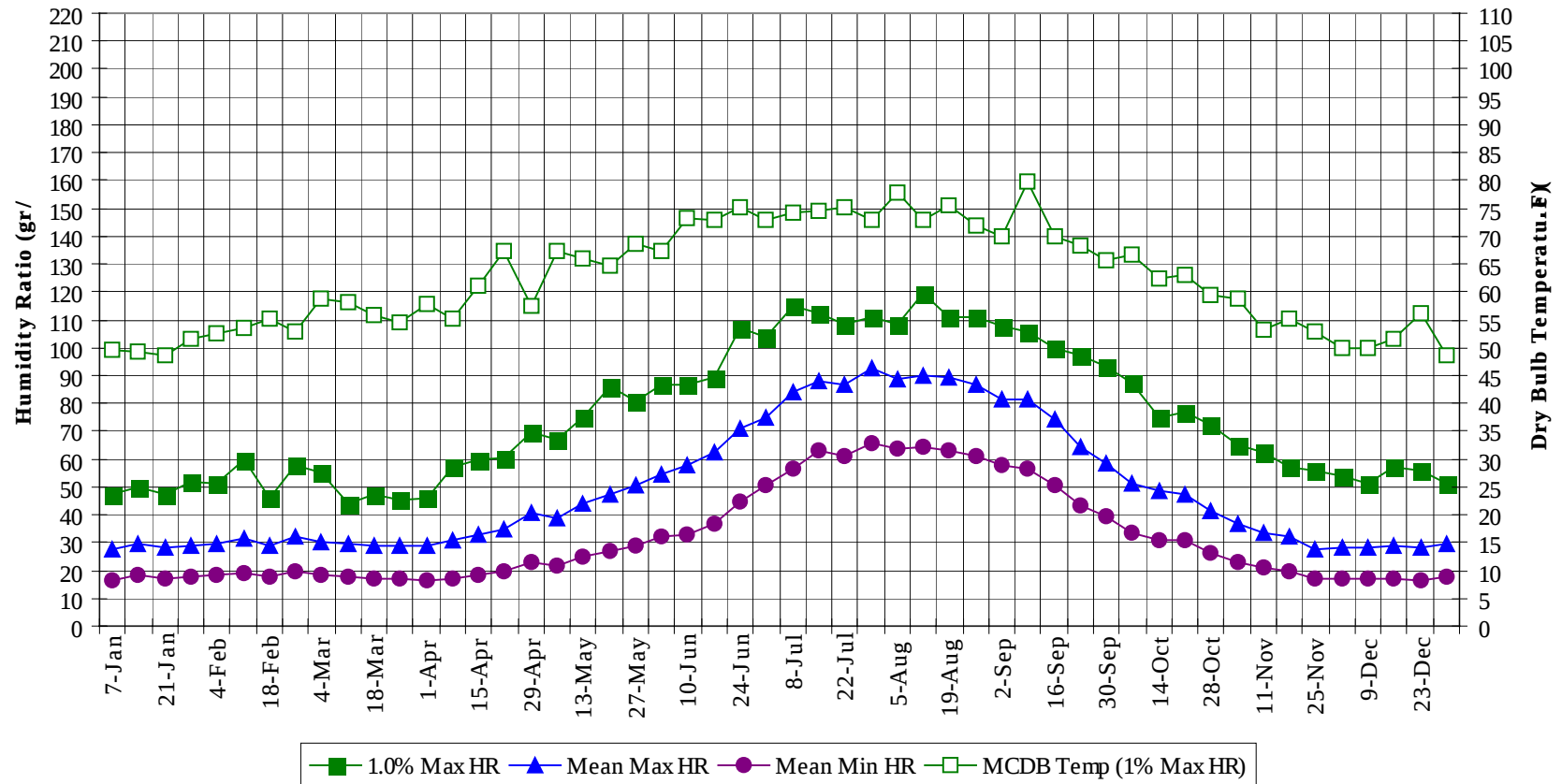
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
110 / 114		0		0	67.0
105 / 109		2	1	3	64.8
100 / 104		24	9	33	64.2
95 / 99		91	39	130	63.9
90 / 94	0	210	94	305	63.3
85 / 89	5	288	158	450	62.0
80 / 84	39	324	238	601	60.1
75 / 79	132	298	280	711	58.2
70 / 74	272	276	295	843	56.3
65 / 69	340	244	269	853	53.5
60 / 64	294	243	252	790	49.2
55 / 59	257	243	239	739	45.1
50 / 54	249	230	240	719	41.8
45 / 49	262	176	242	680	38.6
40 / 44	255	125	211	592	35.3
35 / 39	268	82	175	525	31.7
30 / 34	253	42	116	410	28.1
25 / 29	185	17	46	248	24.0
20 / 24	78	4	11	93	19.5
15 / 19	23	1	3	27	15.3
10 / 14	6	0	1	7	10.8
5 / 9	1	0	0	1	6.4
0 / 4	0			0	3.2

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



HOLLOMAN AFB**NM****WMO No. 747320****Long Term Dry Bulb Temperature and Humidity Summary**

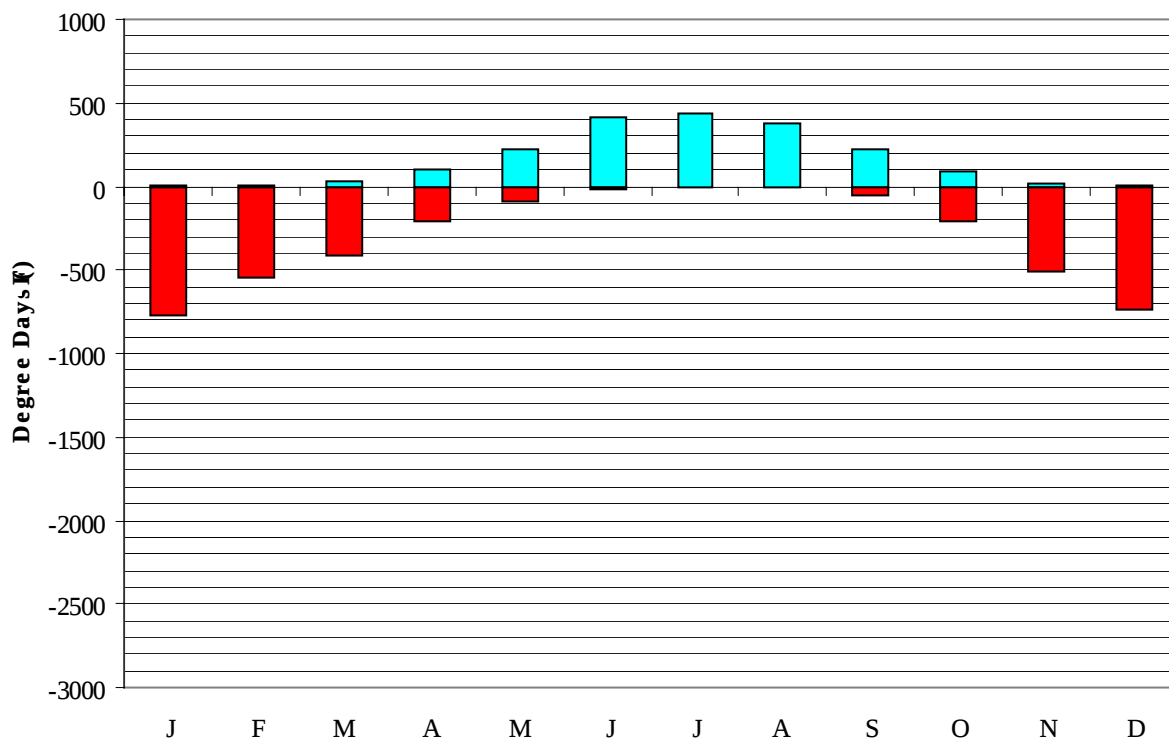
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	62.0	44.9	52.0	26.9	17.0	47.6	49.5	27.9	16.5
14-Jan	65.0	46.1	54.0	28.6	18.0	49.7	49.2	29.8	18.2
21-Jan	67.0	47.8	55.0	29.2	20.0	47.6	48.5	28.5	17.1
28-Jan	66.0	47.1	55.9	29.5	18.0	51.8	51.6	28.9	17.6
4-Feb	68.0	47.9	56.7	30.4	20.0	51.1	52.5	29.7	18.2
11-Feb	70.0	47.8	60.2	33.6	23.0	59.5	53.4	31.3	19.2
18-Feb	73.0	48.7	60.6	32.8	23.0	46.2	55.1	28.8	17.5
25-Feb	75.0	50.3	63.9	35.9	25.0	58.1	52.9	32.4	19.8
4-Mar	76.0	51.8	64.2	35.4	25.0	55.3	58.9	30.2	18.1
11-Mar	80.0	52.3	65.8	37.2	27.0	44.1	58.1	29.3	17.7
18-Mar	79.0	51.4	68.5	38.6	30.0	47.6	55.8	29.1	17.2
25-Mar	79.0	52.5	68.2	39.3	29.0	45.5	54.5	29.0	16.8
1-Apr	82.0	53.9	71.8	41.0	31.0	46.2	57.7	29.0	16.2
8-Apr	85.0	55.1	74.5	43.8	33.0	57.4	55.1	31.1	17.1
15-Apr	87.0	55.5	76.4	46.3	37.0	59.5	61.2	33.0	18.5
22-Apr	88.0	56.6	78.4	48.1	38.0	60.2	67.2	34.5	19.9
29-Apr	88.0	56.6	78.9	49.5	40.0	69.3	57.6	40.5	23.1
6-May	92.0	58.3	82.1	51.8	43.0	67.2	67.3	39.1	22.0
13-May	94.0	58.4	84.0	54.2	45.0	74.9	66.1	43.9	25.1
20-May	95.0	61.0	86.3	56.0	49.0	86.1	64.8	47.6	26.9
27-May	95.0	60.7	87.7	57.2	50.0	80.5	68.5	50.6	28.6
3-Jun	99.0	62.5	90.4	60.3	53.0	86.8	67.4	54.4	32.0
10-Jun	101.0	63.0	93.4	62.6	55.0	86.8	73.2	57.9	33.1
17-Jun	103.0	64.7	95.6	64.8	59.0	89.6	73.0	62.6	36.8
24-Jun	104.0	64.9	95.2	66.3	58.0	107.1	75.2	70.8	44.3
1-Jul	102.0	63.7	94.4	67.2	61.0	103.6	72.8	75.0	50.3
8-Jul	100.0	64.3	93.2	67.6	63.0	114.8	74.3	84.1	56.2
15-Jul	99.0	66.9	91.9	67.4	61.0	112.0	74.7	88.0	62.8
22-Jul	100.0	65.2	92.0	66.9	61.0	108.5	75.1	86.8	61.1
29-Jul	99.0	66.0	91.9	67.0	63.0	111.3	73.0	92.3	65.7
5-Aug	98.0	65.5	91.1	66.3	61.0	108.5	77.7	88.5	63.7
12-Aug	97.0	65.9	90.5	65.5	61.0	119.7	73.0	90.0	64.1
19-Aug	96.0	66.4	90.0	64.9	60.0	111.3	75.4	89.4	62.9
26-Aug	95.0	65.1	88.4	63.6	59.0	111.3	72.1	86.5	61.1
2-Sep	95.0	64.1	87.4	61.9	55.0	107.8	70.1	81.6	57.8
9-Sep	92.0	64.4	85.1	60.3	54.0	105.7	79.8	81.6	56.2
16-Sep	91.0	62.9	83.3	57.4	50.0	100.1	69.8	74.5	50.4
23-Sep	90.0	61.2	81.5	54.0	47.0	97.3	68.4	64.3	43.5
30-Sep	88.0	57.3	80.2	52.3	45.0	93.1	65.8	58.7	39.7
7-Oct	86.0	57.1	77.4	48.6	39.0	87.5	66.6	51.5	33.3
14-Oct	84.0	56.3	74.5	45.9	37.0	74.9	62.4	48.8	31.1
21-Oct	81.0	53.9	72.0	44.5	37.0	77.0	63.0	47.0	30.7
28-Oct	78.0	52.8	68.2	40.3	28.0	72.1	59.4	41.4	26.6
4-Nov	77.0	52.1	67.3	37.7	29.0	65.1	58.9	36.9	23.1
11-Nov	74.0	50.7	63.7	35.5	26.0	62.3	53.1	33.3	21.3
18-Nov	72.0	49.5	61.0	33.9	22.0	57.4	55.3	32.1	19.5
25-Nov	70.0	48.1	56.2	30.0	15.0	56.0	52.9	27.9	16.9
2-Dec	69.0	47.6	57.5	29.2	21.0	53.9	49.9	28.4	17.0
9-Dec	67.0	45.6	54.6	28.7	16.0	51.1	49.9	28.3	17.4
16-Dec	63.0	44.2	52.9	28.1	15.0	57.4	51.6	28.6	16.8
23-Dec	64.0	45.6	51.7	28.0	15.0	56.0	56.3	28.2	16.6
31-Dec	61.0	45.3	51.0	28.0	17.0	51.1	48.7	29.7	17.8

HOLLOMAN AFB

NM

WMO No. 747320

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



■ Mean Cooling Degree Days
 ■ Mean Heating Degree Days

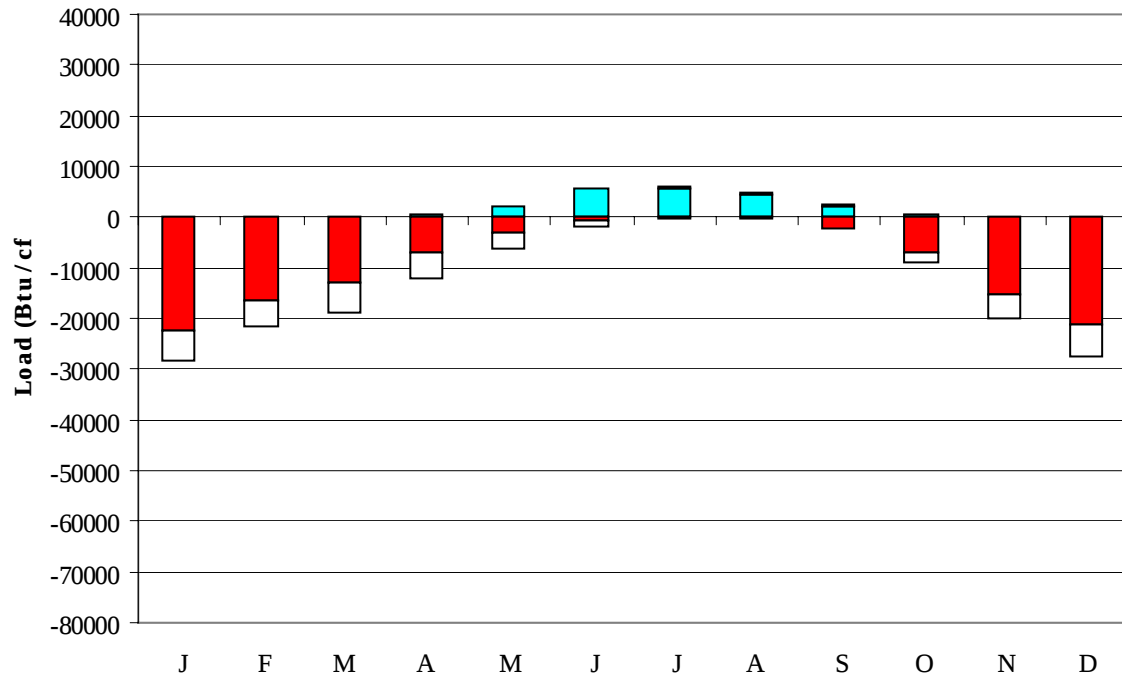
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	1	769
FEB	5	547
MAR	29	413
APR	99	211
MAY	227	87
JUN	416	17
JUL	442	3
AUG	376	5
SEP	227	51
OCT	87	215
NOV	14	510
DEC	1	735
ANN	1924	3563

HOLLOMAN AFB

NM

WMO No. 747320

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	-22320	0	-5997
FEB	6	-16281	0	-5184
MAR	76	-12771	0	-5885
APR	576	-6933	0	-5254
MAY	2236	-3215	3	-3048
JUN	5644	-788	52	-1151
JUL	5627	-239	474	-123
AUG	4340	-411	670	-11
SEP	2151	-2132	225	-199
OCT	494	-7146	9	-1666
NOV	12	-15349	0	-4692
DEC	0	-21352	0	-5994
ANN	21162	-108937	1433	-39204

Average Annual Solar Radiation – Nearest Available Site

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

City: EL PASO
 State: TX
 WBAN No: 23044
 Lat(N): 31.8
 Long(W): 106.4
 Elev(ft): 3918

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.949
 Vert Gap: 0.657

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	1090	1430	1840	2240	2470	2540	2330	2140	1860	1560	1200	1010	1810
	Std Dev	90	95	103	100	82	104	96	105	109	94	82	75	39
	Minimum	920	1210	1540	1990	2270	2310	2150	1830	1650	1350	990	860	1750
	Maximum	1250	1590	2020	2390	2670	2720	2490	2360	2040	1740	1330	1120	1870
	Diffuse	330	390	490	560	600	620	730	670	550	420	340	310	500
Clear Day	Global	1290	1630	2070	2460	2690	2740	2650	2460	2130	1720	1350	1180	2030
NORTH	Global	260	310	390	470	610	710	630	500	400	340	270	240	430
	Diffuse	260	310	390	450	500	520	520	470	400	340	270	240	390
Clear Day	Global	230	280	350	440	620	740	670	480	370	300	240	220	410
EAST	Global	720	920	1140	1310	1380	1380	1280	1200	1090	970	780	680	1070
	Diffuse	320	390	480	550	590	610	630	580	510	430	340	300	480
Clear Day	Global	880	1070	1280	1430	1500	1490	1450	1390	1280	1100	910	830	1220
SOUTH	Global	1610	1640	1450	1100	790	660	700	900	1210	1550	1640	1610	1240
	Diffuse	430	480	520	530	510	510	530	540	520	500	440	410	490
Clear Day	Global	2110	2020	1700	1180	800	650	690	970	1440	1860	2050	2090	1460
WEST	Global	700	890	1070	1240	1320	1310	1160	1120	1060	950	770	670	1020
	Diffuse	320	390	480	560	600	610	630	590	510	430	340	300	480
Clear Day	Global	880	1070	1280	1430	1500	1490	1450	1390	1280	1100	910	830	1220

Average Annual Solar Heat and Illumination – Nearest Available Site

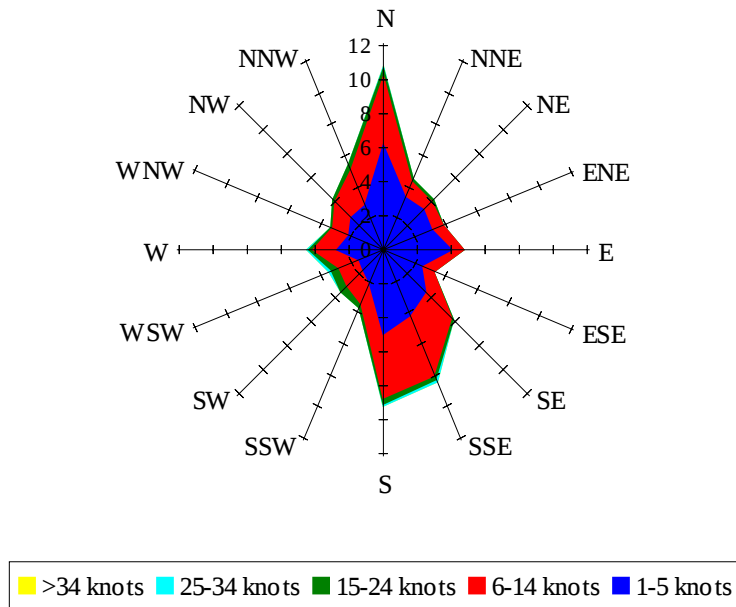
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	740	1000	1330	1640	1830	1880	1720	1570	1350	1110	820	670	1310
NORTH	Unshaded	180	220	270	310	380	430	400	330	280	230	190	170	280
	Shaded	160	200	240	280	340	370	350	300	250	210	170	150	250
EAST	Unshaded	500	650	820	940	990	990	910	850	780	690	540	470	760
	Shaded	440	550	680	770	800	790	730	690	640	580	460	410	630
SOUTH	Unshaded	1200	1180	960	650	440	380	410	520	770	1080	1210	1210	830
	Shaded	1140	950	480	330	320	320	330	330	340	750	1100	1180	630
WEST	Unshaded	490	620	760	880	940	930	820	790	750	670	540	460	720
	Shaded	420	530	640	720	750	740	650	640	620	560	460	400	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	48	85	96	77	34	47	89	109	103	72
	M.Cloudy	34	66	76	59	24	35	70	92	87	58
NORTH	M.Clear	10	15	16	14	9	24	16	16	16	17
	M.Cloudy	11	17	18	16	9	18	18	18	18	18
EAST	M.Clear	86	63	16	14	9	82	76	33	16	14
	M.Cloudy	50	47	18	16	9	48	58	31	18	16
SOUTH	M.Clear	40	69	78	63	29	11	20	33	29	14
	M.Cloudy	26	52	60	46	18	12	21	32	29	16
WEST	M.Clear	10	15	23	72	77	11	16	16	52	82
	M.Cloudy	11	17	23	51	39	12	18	18	47	61
M.Clear	(% hrs)	62	59	55	54	56	77	78	77	75	67

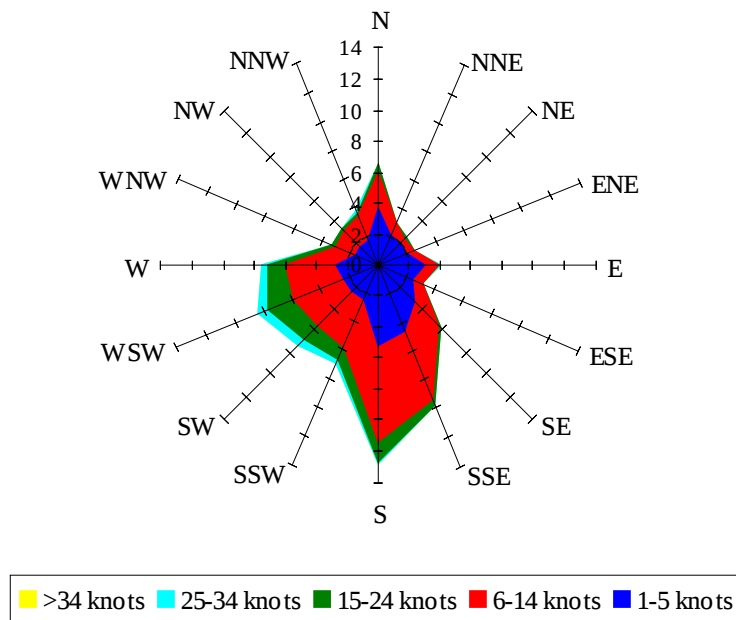
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	31	75	96	88	53	25	57	64	43	6
	M.Cloudy	20	53	72	67	40	16	39	46	31	5
NORTH	M.Clear	9	15	16	16	12	7	12	12	10	3
	M.Cloudy	8	16	19	18	13	7	13	14	11	2
EAST	M.Clear	72	75	31	16	12	59	47	12	10	3
	M.Cloudy	31	47	27	18	13	25	29	14	11	2
SOUTH	M.Clear	20	52	68	62	36	51	88	95	74	18
	M.Cloudy	12	34	49	46	25	22	49	57	41	7
WEST	M.Clear	9	15	16	55	79	7	12	24	60	27
	M.Cloudy	8	16	19	42	48	7	13	20	34	10
M.Clear	(% hrs)	62	66	63	61	61	58	59	54	54	54

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



Percent Calm = 18.84

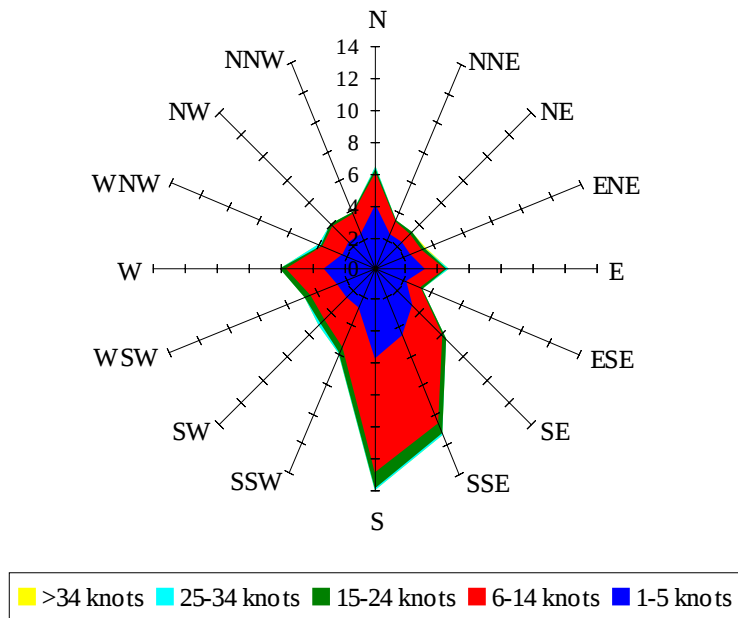
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 10.05

Wind Summary - June, July, and August

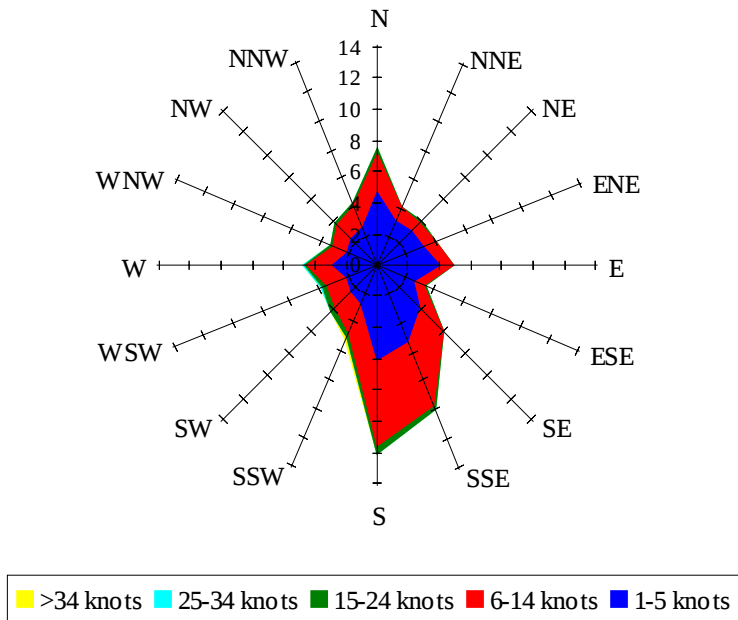
Labels of Percent Frequency on North Axis



Percent Calm = 11.85

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 15.86