

NORTON AFB/SAN BERNARDINO CA

Latitude = 34.10 N

WMO No. 722866

Longitude = 117.20 W

Elevation = 1158 feet

Period of Record = 1964 to 1993

Average Pressure = 28.73 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	108	71	59	8.1	W
0.4% Occurrence	102	70	60	7.5	W
1.0% Occurrence	100	70	65	7.9	W
2.0% Occurrence	97	69	64	7.7	W
Mean Daily Range	28	-	-	-	-
97.5% Occurrence	38	34	24	2.2	ENE
99.0% Occurrence	35	31	21	2.2	ENE
99.6% Occurrence	32	29	19	2.1	ENE
Median of Extreme Lows	28	25	14	2.4	ENE
	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	77	96	108	6.9	W
0.4% Occurrence	74	95	97	7.0	W
1.0% Occurrence	73	94	92	7.3	W
2.0% Occurrence	71	91	85	7.1	W
	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	120	83	0.77	2.9	SW
0.4% Occurrence	105	84	0.68	5.5	W
1.0% Occurrence	97	83	0.62	5.1	WSW
2.0% Occurrence	94	81	0.60	4.2	WSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		377	1359	88	747

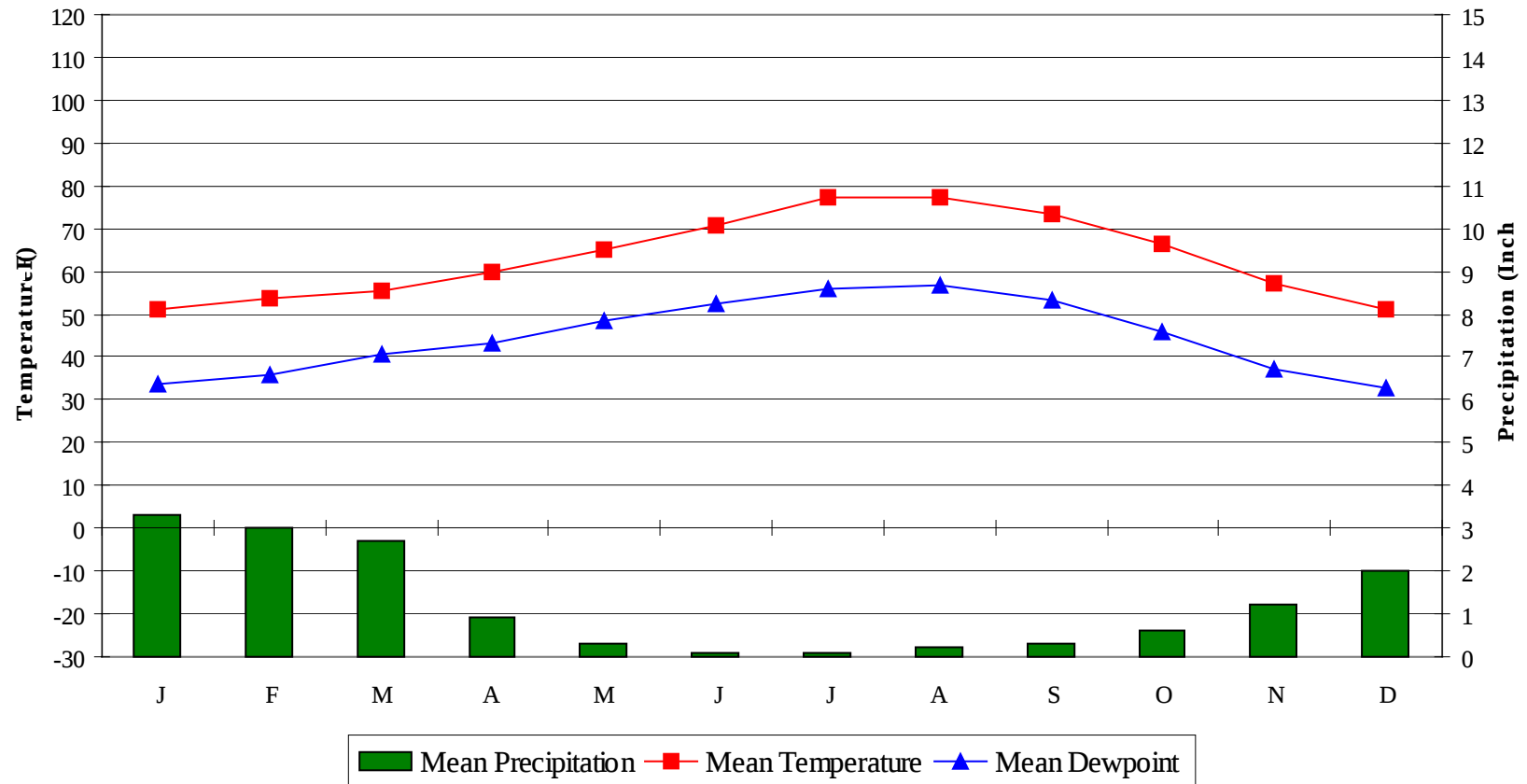
Other Site Data

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	2.5	N/A	0.2 + 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 (#)
65.8	18	0	7

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

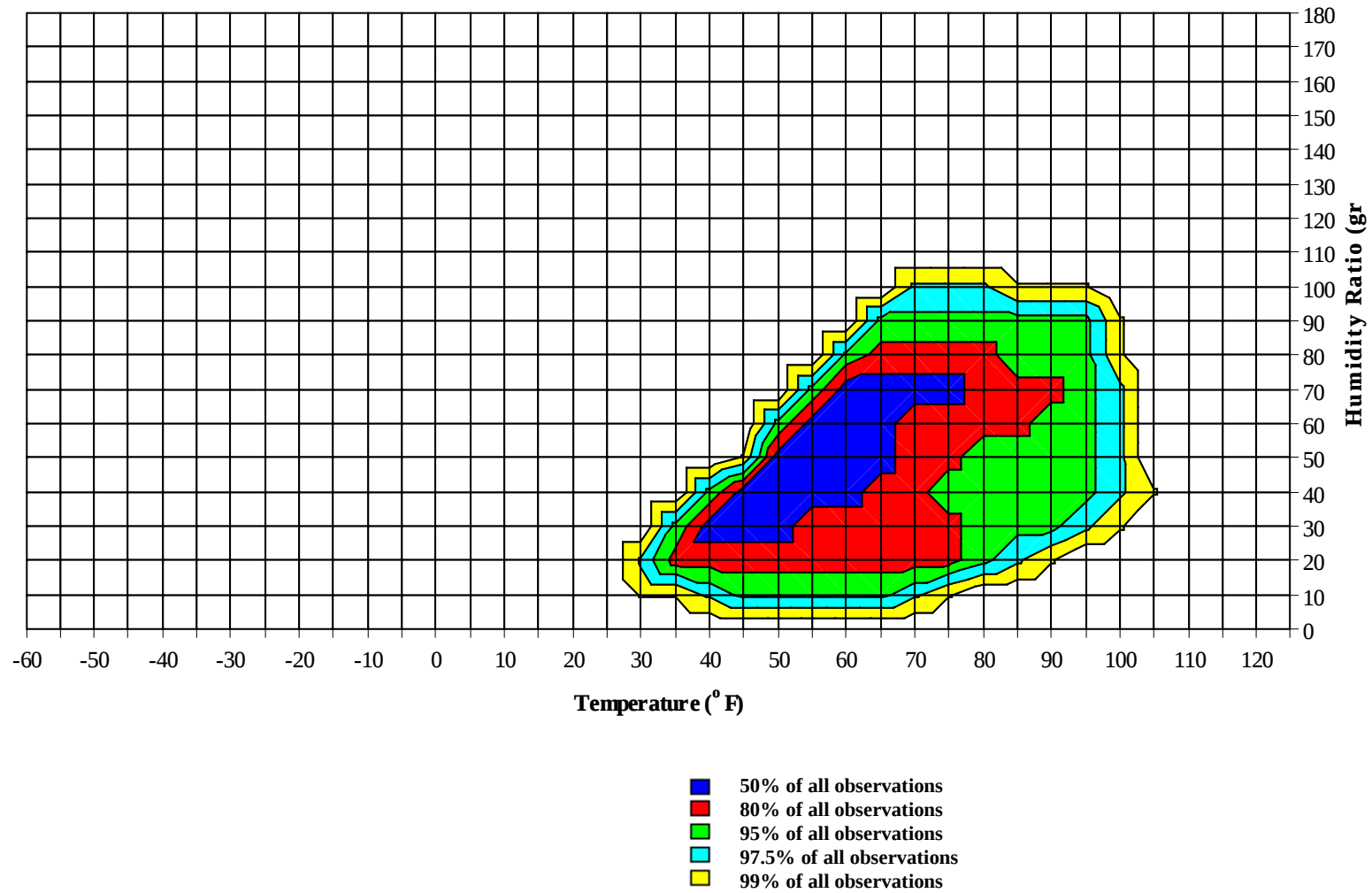
NORTON AFB/SAN BERNARDINO CA WMO No. 722866

Average Annual Climate

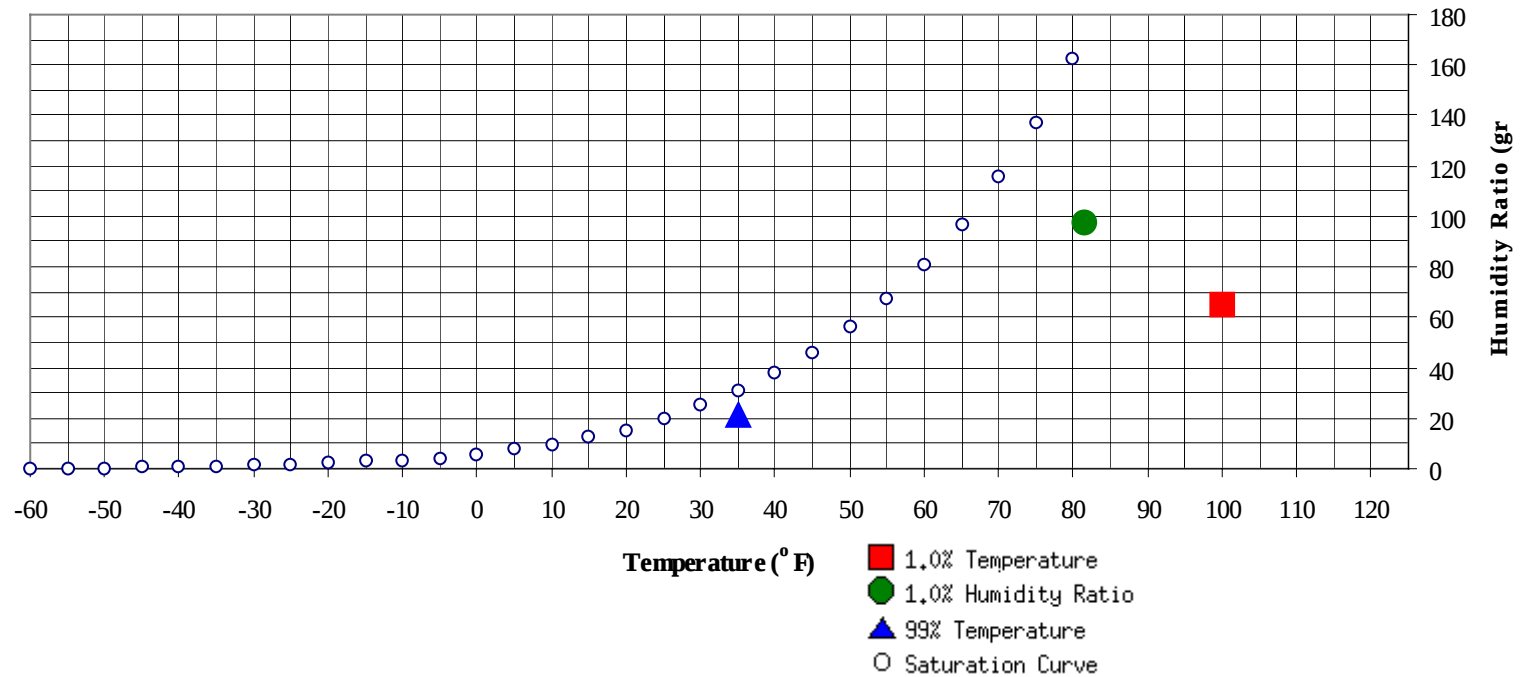


NORTON AFB/SAN BERNARDINO CA WMO No. 722866

Long Term Psychrometric Summary



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	35	21.2	11.7		97.3	81.5	70.1	65	34.8

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	100	64.9	69.7	34.2

NORTON AFB/SAN BERNARDINO CA WMO No. 722866

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

Period of Record = 1964 to 1993

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												0		0	61.6
90 / 94												1	0	1	59.9
85 / 89		0		0	56.3		2	0	2	59.2		2	0	3	59.2
80 / 84		4	0	4	55.3		7	1	8	56.1		10	1	11	57.2
75 / 79		12	1	13	53.6		18	2	20	54.3	0	20	4	23	56.1
70 / 74	0	23	3	27	51.5	0	27	6	34	52.4	0	29	9	38	54.8
65 / 69	1	35	8	43	49.9	1	35	13	49	50.6	1	35	17	53	53.2
60 / 64	3	45	19	66	49.0	2	42	26	69	49.7	3	48	31	83	51.7
55 / 59	8	55	37	100	47.7	15	45	47	107	49.0	25	55	63	143	50.3
50 / 54	31	46	64	140	45.7	44	32	60	136	46.4	72	37	71	180	47.6
45 / 49	60	22	59	141	42.0	59	13	43	114	42.4	74	9	37	120	43.7
40 / 44	67	6	39	111	37.6	60	3	21	83	37.9	50	2	12	64	39.1
35 / 39	50	1	14	66	33.4	34	0	5	39	33.6	19	0	2	21	34.9
30 / 34	24		4	28	29.1	10	0	0	10	29.5	3		0	3	30.7
25 / 29	4		0	4	24.9	1		0	1	24.7	0			0	26.0
20 / 24	0			0	21.0										

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.

NORTON AFB/SAN BERNARDINO CA WMO No. 722866

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

Period of Record = 1964 to 1993

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	70.0		1		1	70.4
105 / 109							0		0	68.8		2	0	3	67.9
100 / 104		0	0	0	64.6		2	0	2	65.4		10	1	11	67.1
95 / 99		2	0	2	62.6		7	1	7	64.2		21	3	24	67.5
90 / 94		7	1	8	61.3		14	1	16	64.1	0	33	7	40	66.6
85 / 89		14	2	16	60.4	0	24	4	29	63.7	1	34	14	49	65.3
80 / 84	0	23	5	28	58.7	1	36	10	47	62.3	2	36	22	60	64.2
75 / 79	1	30	10	41	57.7	2	37	18	57	61.1	5	32	30	67	62.6
70 / 74	2	33	18	52	56.6	4	37	28	70	59.2	11	28	39	78	61.0
65 / 69	5	39	27	71	54.8	9	38	41	88	57.2	28	24	48	99	58.9
60 / 64	14	41	43	98	53.1	41	33	63	137	55.3	75	17	51	142	56.8
55 / 59	49	33	61	142	50.9	96	17	57	169	52.5	85	5	23	112	53.8
50 / 54	75	15	47	137	47.7	63	4	18	85	48.7	28	0	2	30	49.8
45 / 49	56	4	20	80	43.9	25	0	4	29	44.4	4		0	5	45.4
40 / 44	30	0	5	36	40.0	6		1	7	40.4					
35 / 39	7		0	7	36.2	1			1	35.4					
30 / 34						0			0	32.5					
25 / 29															
20 / 24															

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NORTON AFB/SAN BERNARDINO CA WMO No. 722866

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

Period of Record = 1964 to 1993

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	70.3		1		1	72.5		0		0	71.4
105 / 109		3	0	3	71.4		4		4	71.7		4	0	4	69.8
100 / 104		19	1	20	70.7		20	1	21	71.3		17	1	17	69.5
95 / 99		50	6	56	69.3		48	5	54	70.3		30	3	34	68.0
90 / 94	0	60	18	78	68.2	0	58	16	74	68.9	0	38	8	46	66.7
85 / 89	1	46	28	75	67.2	1	44	28	72	67.7	1	36	16	52	65.7
80 / 84	5	33	40	77	66.0	5	33	39	78	66.6	4	36	26	66	64.8
75 / 79	14	21	48	83	64.8	15	21	50	86	65.4	9	29	35	73	63.7
70 / 74	39	12	56	107	63.2	46	14	55	115	63.8	23	26	49	98	62.2
65 / 69	71	5	36	112	60.9	74	6	37	117	61.3	54	17	53	123	59.9
60 / 64	76	1	14	91	57.6	67	1	15	83	58.0	79	7	39	125	57.2
55 / 59	34		1	35	53.8	32		1	33	53.4	50	1	9	60	53.2
50 / 54	6			6	49.8	6		0	6	49.1	18	0	1	19	49.2
45 / 49											3			3	45.6
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															

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NORTON AFB/SAN BERNARDINO CA WMO No. 722866

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

Period of Record = 1964 to 1993

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		0		0	66.6										
100 / 104		3		3	65.4										
95 / 99		11	0	11	63.6		0		0	61.0					
90 / 94		26	2	28	62.5		2		2	59.8					
85 / 89		29	5	34	61.4	0	9	0	9	58.1		0		0	57.9
80 / 84	0	35	11	46	60.2	0	21	1	22	56.5		4	0	4	54.8
75 / 79	1	39	18	58	59.5	0	33	4	36	54.9		15	0	15	52.8
70 / 74	5	43	30	78	58.5	0	35	11	46	53.2	0	29	2	31	51.2
65 / 69	16	36	52	103	57.2	2	44	17	63	52.4	0	37	7	44	49.8
60 / 64	57	21	69	147	55.6	9	45	39	94	51.5	1	44	15	59	48.9
55 / 59	79	6	42	126	51.7	33	31	58	123	49.5	6	55	37	98	48.0
50 / 54	57	0	16	73	46.9	61	16	58	135	46.0	33	40	64	137	45.5
45 / 49	26		4	30	42.6	65	4	35	103	41.7	58	18	66	142	41.3
40 / 44	6		0	6	37.9	47	0	14	62	37.6	76	5	41	122	37.3
35 / 39	1		0	1	31.8	19	0	2	21	33.6	54	1	14	68	33.2
30 / 34						3	0	0	3	30.0	18	0	3	21	28.9
25 / 29											2		0	3	24.5
20 / 24											0			0	21.5

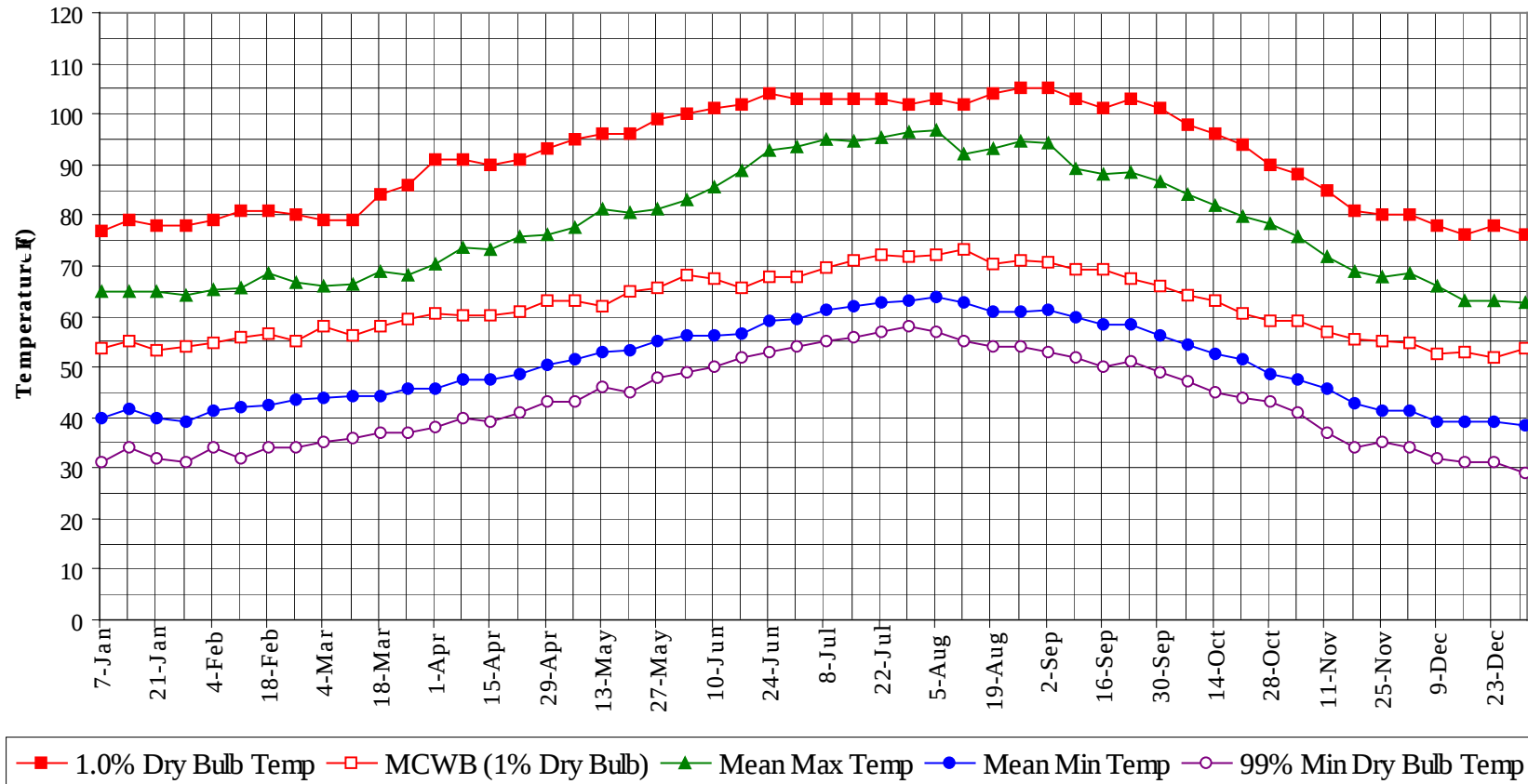
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NORTON AFB/SAN BERNARDINO CA WMO No. 722866
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1964 to 1993

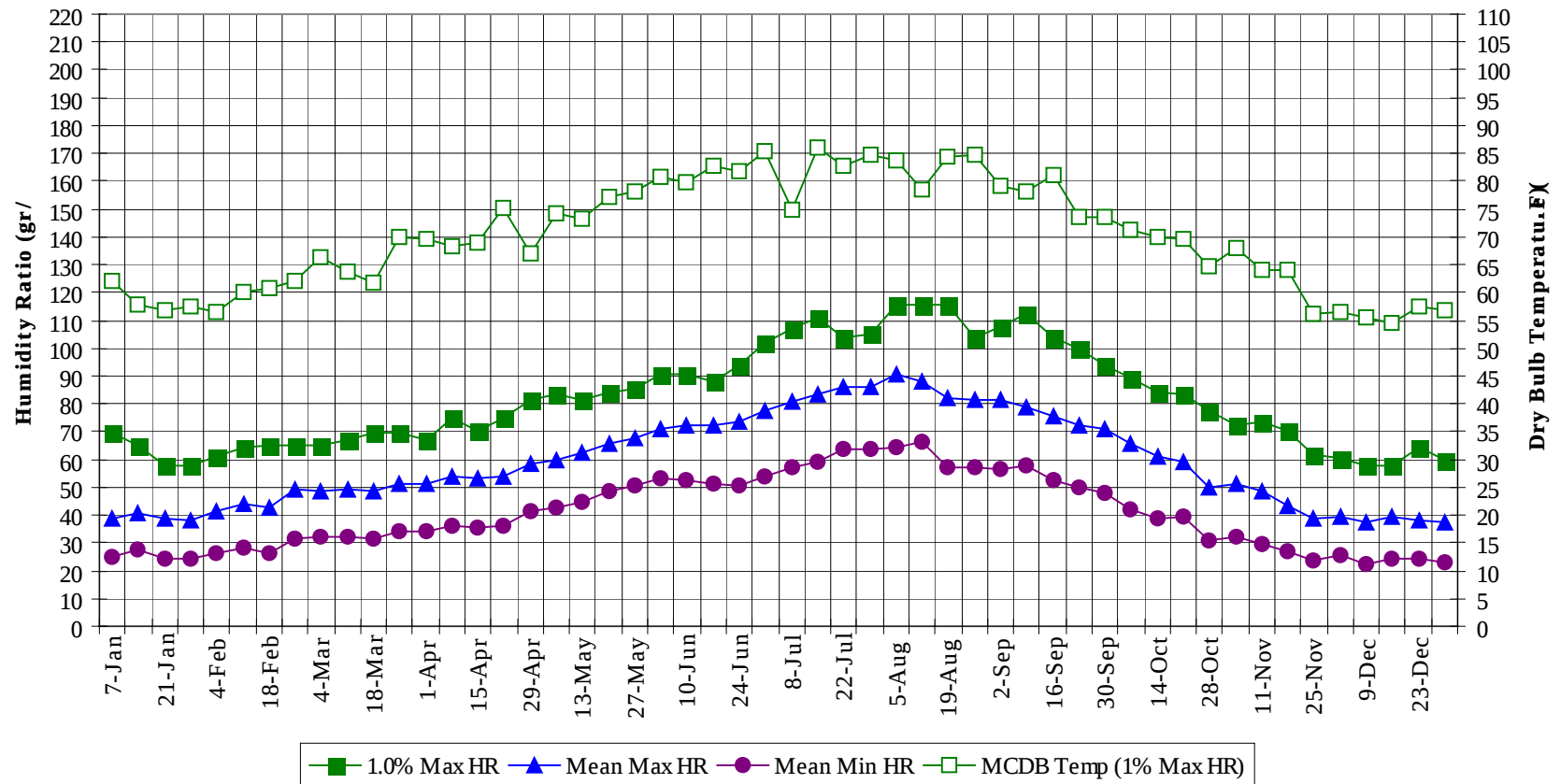
Temperature Range (°F)	Annual Totals				
	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
110 / 114		2		2	71.2
105 / 109		14	0	14	70.3
100 / 104		71	3	74	69.7
95 / 99		169	18	188	68.5
90 / 94	1	239	53	292	66.9
85 / 89	3	240	97	340	65.3
80 / 84	17	276	156	450	63.2
75 / 79	47	306	219	571	61.1
70 / 74	131	337	306	774	59.3
65 / 69	259	352	355	966	56.9
60 / 64	426	344	423	1193	54.3
55 / 59	510	302	437	1250	50.9
50 / 54	494	191	402	1087	46.9
45 / 49	430	70	268	768	42.5
40 / 44	343	16	133	492	38.0
35 / 39	185	2	37	225	33.6
30 / 34	58	0	8	67	29.2
25 / 29	7		1	8	24.8
20 / 24	0			0	21.3

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



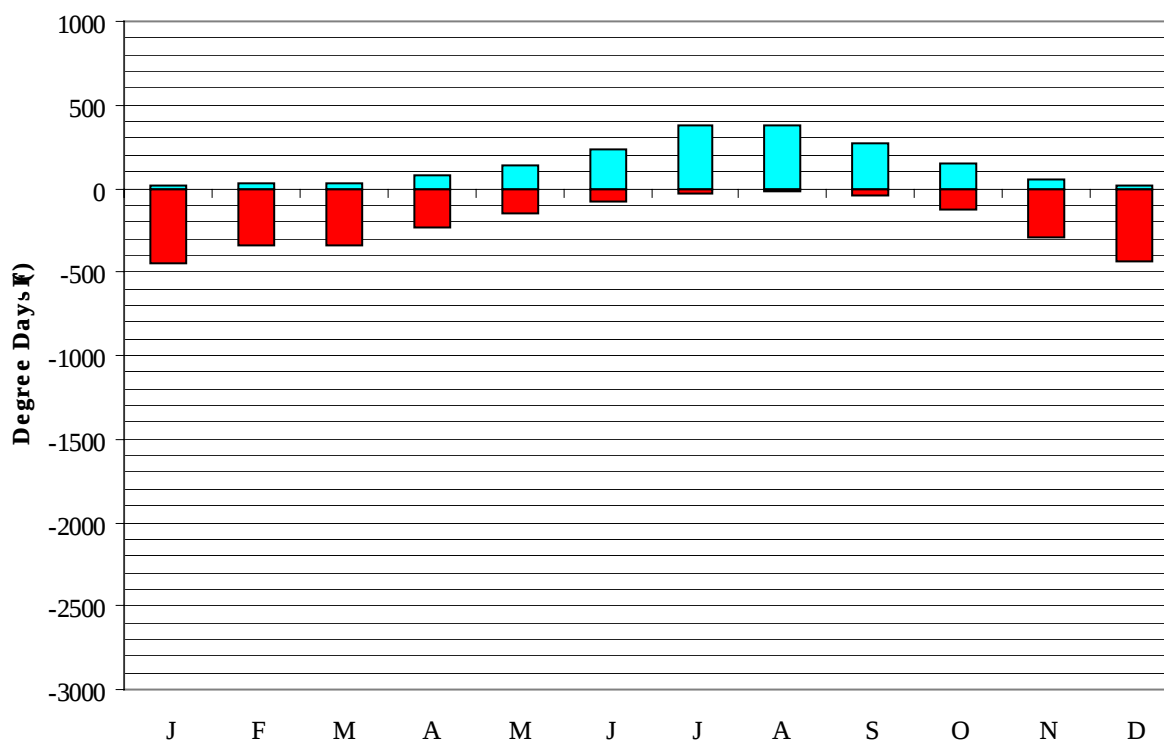
NORTON AFB/SAN BERNARDINO CA WMO No. 722866

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	77.0	53.7	64.8	39.8	31.0	69.3	62.2	38.9	25.0
14-Jan	79.0	55.3	64.9	41.8	34.0	65.1	57.9	41.0	27.3
21-Jan	78.0	53.5	65.1	39.7	32.0	58.1	56.9	38.9	24.6
28-Jan	78.0	53.9	64.3	39.3	31.0	58.1	57.5	38.3	24.2
4-Feb	79.0	54.6	65.1	41.5	34.0	60.9	56.5	41.3	26.5
11-Feb	81.0	55.9	65.7	42.2	32.0	64.4	60.2	44.3	28.5
18-Feb	81.0	56.6	68.6	42.6	34.0	65.1	60.8	42.6	26.3
25-Feb	80.0	55.3	66.8	43.4	34.0	65.1	62.1	49.0	31.4
4-Mar	79.0	58.2	66.0	43.9	35.0	65.1	66.3	48.6	31.9
11-Mar	79.0	56.3	66.5	44.2	36.0	67.2	63.8	49.2	32.4
18-Mar	84.0	58.0	68.9	44.2	37.0	69.3	61.9	48.8	31.8
25-Mar	86.0	59.4	68.1	45.7	37.0	69.3	69.9	51.0	34.1
1-Apr	91.0	60.7	70.4	45.8	38.0	67.2	69.8	51.1	34.1
8-Apr	91.0	60.4	73.7	47.6	40.0	74.9	68.2	53.9	36.2
15-Apr	90.0	60.3	73.2	47.4	39.0	70.0	69.0	53.1	35.5
22-Apr	91.0	61.0	75.8	48.5	41.0	74.9	75.2	53.9	36.2
29-Apr	93.0	63.1	76.3	50.5	43.0	81.2	67.1	58.6	41.4
6-May	95.0	63.0	77.7	51.4	43.0	83.3	74.3	60.1	43.0
13-May	96.0	62.2	81.1	52.8	46.0	81.2	73.1	62.3	44.8
20-May	96.0	64.9	80.5	53.4	45.0	84.0	77.2	65.4	48.4
27-May	99.0	65.7	81.1	55.0	48.0	85.4	78.0	67.7	50.6
3-Jun	100.0	68.0	83.0	56.1	49.0	90.3	80.6	70.9	53.3
10-Jun	101.0	67.4	85.4	56.1	50.0	90.3	79.8	72.1	52.7
17-Jun	102.0	65.7	89.0	56.7	52.0	88.2	82.6	72.4	51.5
24-Jun	104.0	67.9	92.7	58.9	53.0	93.8	81.9	73.3	50.5
1-Jul	103.0	67.8	93.6	59.4	54.0	101.5	85.3	77.6	53.6
8-Jul	103.0	69.7	94.9	61.2	55.0	107.1	74.9	81.1	57.4
15-Jul	103.0	71.0	94.6	62.0	56.0	111.3	86.0	83.3	58.8
22-Jul	103.0	72.0	95.4	62.8	57.0	103.6	82.7	85.9	63.4
29-Jul	102.0	71.9	96.4	63.1	58.0	105.0	84.7	86.2	63.6
5-Aug	103.0	72.1	96.9	63.9	57.0	115.5	83.6	90.3	64.6
12-Aug	102.0	73.1	92.1	62.8	55.0	115.5	78.4	87.7	66.5
19-Aug	104.0	70.2	93.3	60.9	54.0	115.5	84.4	82.3	57.4
26-Aug	105.0	71.0	94.8	61.0	54.0	103.6	84.7	81.5	56.8
2-Sep	105.0	70.5	94.4	61.3	53.0	107.8	79.2	81.6	56.4
9-Sep	103.0	69.3	89.2	59.7	52.0	112.0	78.1	79.0	57.5
16-Sep	101.0	69.3	88.0	58.5	50.0	103.6	81.1	75.3	52.3
23-Sep	103.0	67.4	88.5	58.4	51.0	100.1	73.5	72.0	50.2
30-Sep	101.0	66.1	86.7	56.3	49.0	93.8	73.7	71.0	47.6
7-Oct	98.0	64.2	84.1	54.5	47.0	89.6	71.2	66.0	41.9
14-Oct	96.0	63.1	82.0	52.4	45.0	84.0	69.8	60.9	38.6
21-Oct	94.0	60.4	79.6	51.6	44.0	83.3	69.6	58.9	39.2
28-Oct	90.0	59.1	78.4	48.7	43.0	77.7	64.5	49.7	31.1
4-Nov	88.0	58.9	75.7	47.4	41.0	72.1	67.9	51.5	32.2
11-Nov	85.0	57.0	71.8	45.7	37.0	73.5	64.0	48.4	29.5
18-Nov	81.0	55.5	69.0	42.9	34.0	70.0	64.0	43.6	27.2
25-Nov	80.0	55.1	67.7	41.4	35.0	61.6	56.3	38.5	23.6
2-Dec	80.0	54.9	68.6	41.5	34.0	60.2	56.6	39.3	25.4
9-Dec	78.0	52.5	66.0	39.3	32.0	58.1	55.4	37.5	22.3
16-Dec	76.0	52.9	63.0	39.1	31.0	58.1	54.7	39.5	24.4
23-Dec	78.0	52.0	63.2	39.3	31.0	64.4	57.5	38.0	24.2
31-Dec	76.0	53.6	62.6	38.6	29.0	59.5	56.8	37.2	22.9

NORTON AFB/SAN BERNARDINO CA WMO No. 722866

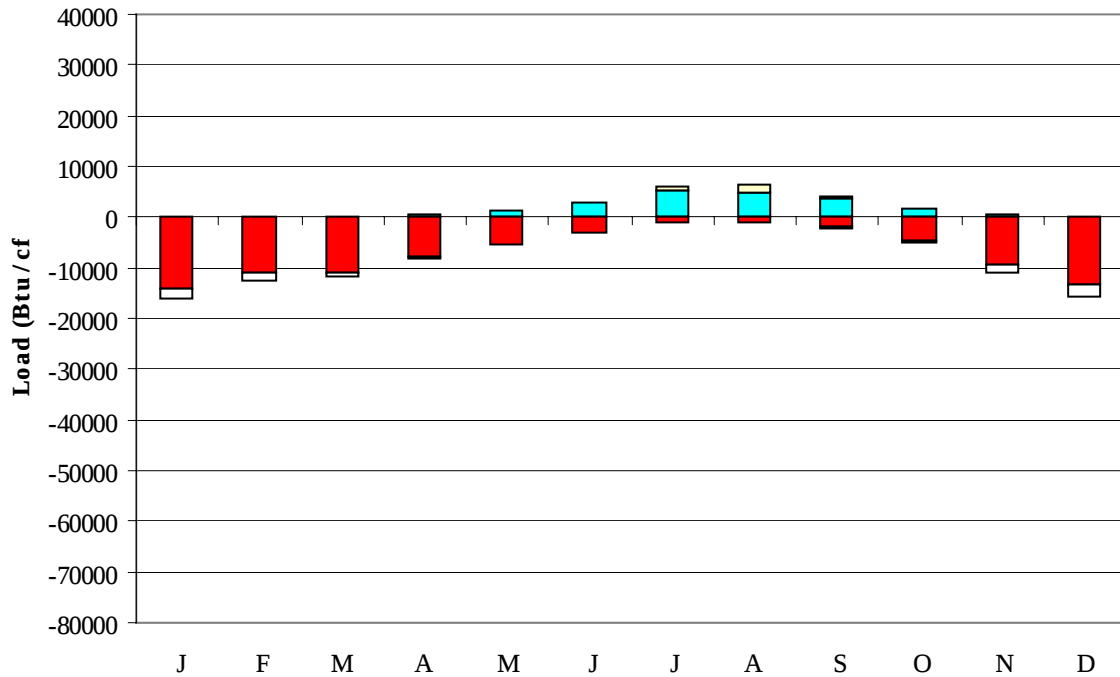
Degree Days, Heating and Cooling **(Base 65°F)**



■ Mean Cooling Degree Days
 ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	18	452
FEB	28	347
MAR	35	336
APR	81	234
MAY	135	146
JUN	232	73
JUL	375	24
AUG	373	23
SEP	267	46
OCT	155	124
NOV	56	291
DEC	20	435
ANN	1776	2531

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	51	-13922	0	-2225
FEB	111	-10896	0	-1462
MAR	173	-10771	0	-748
APR	686	-7801	2	-405
MAY	1346	-5288	22	-81
JUN	2903	-2953	104	-22
JUL	5089	-1194	784	-2
AUG	5024	-1127	1263	-7
SEP	3569	-2026	469	-58
OCT	1670	-4551	54	-527
NOV	389	-9389	0	-1692
DEC	55	-13359	0	-2455
ANN	21066	-83277	2698	-9684

Average Annual Solar Radiation – Nearest Available Site

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

City: DAGGETT
 State: CA
 WBAN No: 23161
 Lat(N): 34.87
 Long(W): 116.78
 Elev(ft): 1929

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 1.073
 Vert Gap: 0.661

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	1000	1310	1750	2210	2510	2670	2540	2330	1990	1550	1130	930	1830
	Std Dev	72	78	94	98	70	56	100	107	111	63	52	49	35
	Minimum	820	1110	1550	2000	2280	2520	2200	2020	1620	1380	990	830	1750
	Maximum	1120	1480	1960	2380	2610	2760	2690	2510	2150	1650	1220	1010	1880
	Diffuse	300	390	490	540	560	520	550	480	400	340	290	260	430
Clear Day	Global	1160	1510	1980	2430	2690	2790	2720	2480	2100	1630	1240	1060	1990
NORTH	Global	240	300	380	470	620	730	670	500	380	310	250	220	420
	Diffuse	240	300	380	440	490	510	500	440	370	310	250	220	370
Clear Day	Global	210	260	330	430	610	740	680	480	360	290	220	190	400
EAST	Global	700	870	1110	1330	1430	1490	1440	1380	1230	1010	780	660	1120
	Diffuse	290	370	470	550	590	580	580	540	460	390	310	270	450
Clear Day	Global	840	1030	1270	1450	1530	1550	1530	1450	1310	1080	880	780	1220
SOUTH	Global	1640	1620	1480	1190	890	750	790	1040	1410	1700	1720	1650	1320
	Diffuse	410	470	520	530	520	500	510	490	480	450	410	380	470
Clear Day	Global	2110	2050	1780	1290	910	760	810	1100	1560	1940	2090	2100	1540
WEST	Global	690	840	1070	1280	1400	1470	1380	1300	1200	990	760	650	1090
	Diffuse	300	380	480	550	600	600	600	540	470	390	310	270	460
Clear Day	Global	840	1030	1270	1450	1530	1550	1530	1450	1310	1080	880	780	1220

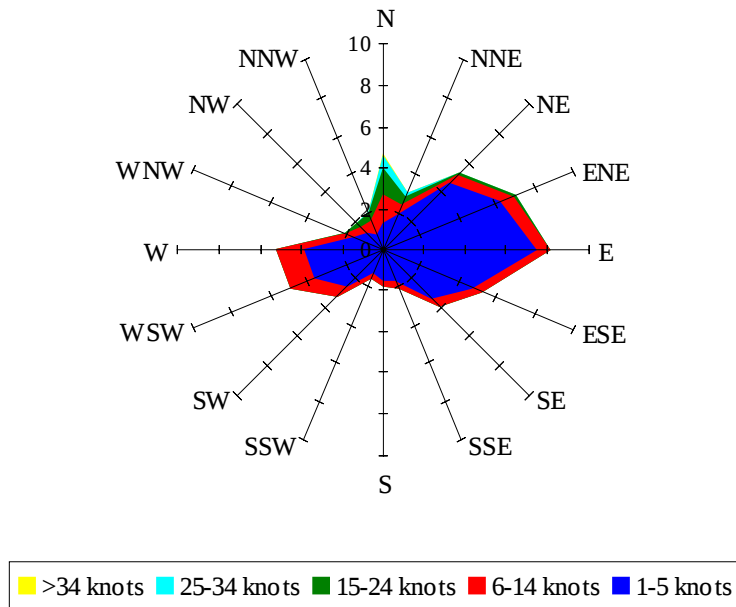
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	660	910	1250	1610	1850	1970	1870	1710	1450	1090	760	600	1310
NORTH	Unshaded	160	210	260	310	380	440	410	320	260	210	170	150	270
	Shaded	140	180	230	280	340	380	350	290	240	190	150	130	240
EAST	Unshaded	480	620	790	950	1030	1070	1030	990	880	720	540	450	800
	Shaded	410	510	640	760	800	820	800	780	710	600	460	390	640
SOUTH	Unshaded	1230	1170	1000	720	500	410	440	600	910	1200	1280	1250	890
	Shaded	1170	930	470	320	320	320	320	300	320	800	1160	1220	640
WEST	Unshaded	480	590	760	920	1000	1050	990	930	860	710	530	450	770
	Shaded	400	490	620	730	780	810	770	730	690	580	450	380	620

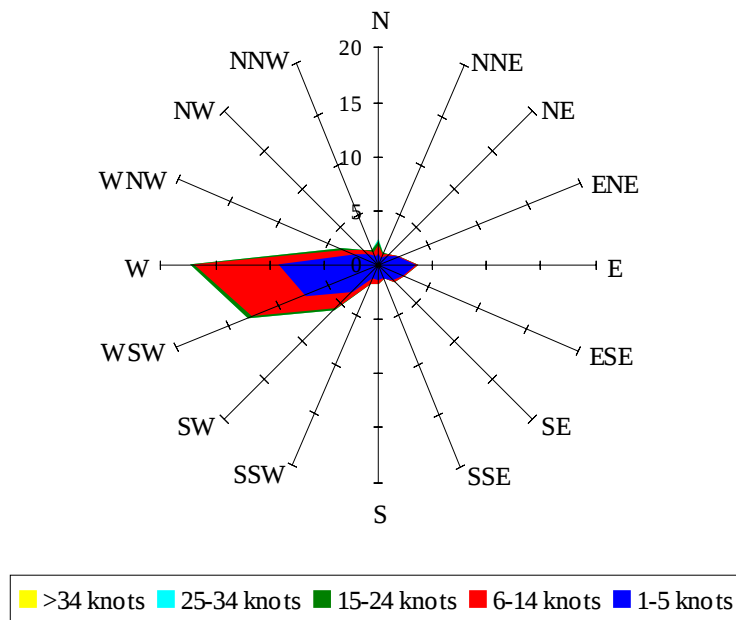
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	52	84	90	68	25	56	93	109	100	68
	M.Cloudy	40	67	71	52	19	48	83	97	86	56
NORTH	M.Clear	11	14	15	13	7	20	15	16	16	16
	M.Cloudy	12	17	18	15	7	20	18	18	18	17
EAST	M.Clear	84	54	15	13	7	88	71	24	16	13
	M.Cloudy	54	43	18	15	7	67	63	25	18	15
SOUTH	M.Clear	46	74	79	60	23	12	27	39	33	13
	M.Cloudy	33	57	60	43	14	14	28	38	32	15
WEST	M.Clear	11	14	31	76	71	12	15	16	59	87
	M.Cloudy	12	17	28	51	36	14	18	18	53	66
M.Clear	(% hrs)	57	55	52	51	54	84	83	81	78	78
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	39	79	95	84	48	27	54	57	34	2
	M.Cloudy	28	60	76	66	35	19	41	43	25	2
NORTH	M.Clear	9	14	16	15	11	7	11	11	9	1
	M.Cloudy	10	17	19	17	12	7	13	13	9	1
EAST	M.Clear	83	71	21	15	11	60	39	11	9	1
	M.Cloudy	43	51	22	17	12	30	28	13	9	1
SOUTH	M.Clear	27	59	73	63	34	59	92	96	68	7
	M.Cloudy	18	44	57	49	24	30	57	58	38	4
WEST	M.Clear	9	14	16	62	84	7	11	30	60	11
	M.Cloudy	10	17	19	48	50	7	13	23	34	5
M.Clear	(% hrs)	84	83	81	78	75	57	56	56	52	56

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



Percent Calm = 39.14

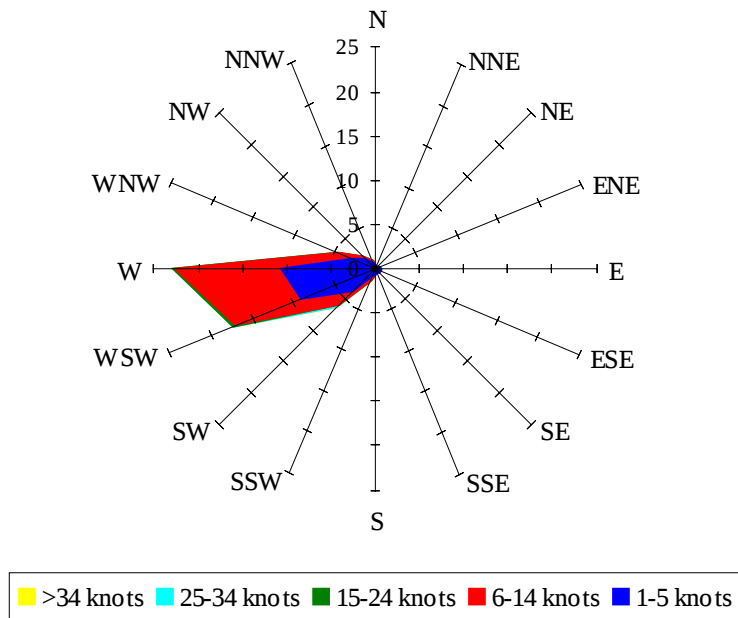
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 37.76

Wind Summary - June, July, and August

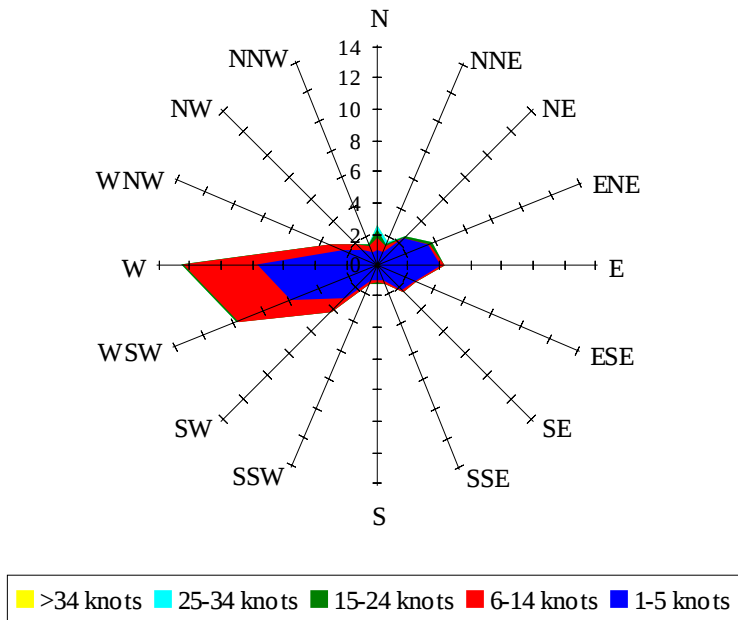
Labels of Percent Frequency on North Axis



Percent Calm = 40.63

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 44.49