

MEXICO CITY MX

Latitude = 19.43 N

Longitude = 99.10 W

Period of Record = 1985 to 1996

WMO No. 766793

Elevation = 7343 feet

Average Pressure = 23.06 inches Hg

Design Criteria Data

	Design Value	Mean Coincident (Average) Values			
		Wet Bulb Temperature (oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Dry Bulb Temperature (T)	(oF)				
Median of Extreme Highs	86	57	43	12.3	N
0.4% Occurrence	84	57	46	12.7	N
1.0% Occurrence	82	56	48	12.3	N
2.0% Occurrence	81	56	48	12.3	N
Mean Daily Range	23	-	-	-	-
97.5% Occurrence	45	41	42	3.1	ENE
99.0% Occurrence	43	39	38	3.3	ENE
99.6% Occurrence	39	35	34	3.3	ENE
Median of Extreme Lows	32	28	24	5.4	ENE
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (Twb)	(oF)				
Median of Extreme Highs	65	71	107	6.6	NNE
0.4% Occurrence	62	74	84	8.6	N
1.0% Occurrence	61	72	82	8.3	N
2.0% Occurrence	60	72	79	8.4	N
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (oF)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)	(gr/lb)				
Median of Extreme Highs	111	69	0.57	6.6	WSW
0.4% Occurrence	92	63	0.47	5.6	N
1.0% Occurrence	91	63	0.47	5.6	N
2.0% Occurrence	91	63	0.47	5.6	N
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93oF	T ≥ 80oF	Twb ≥ 73oF	Twb ≥ 67oF
		0	210	0	0

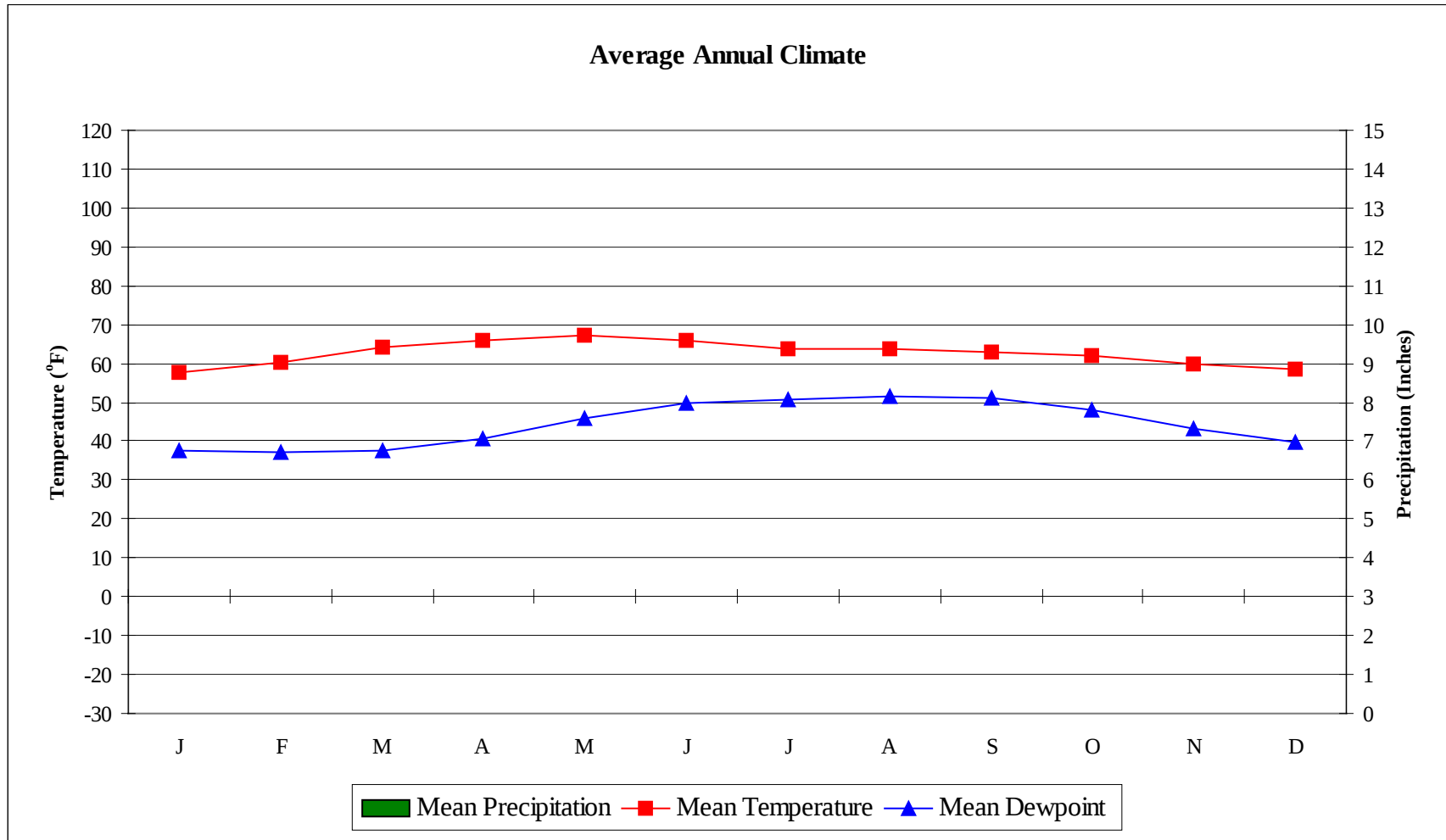
Other Site Data

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 75oF-RH 60% Latent + Sensible
9	N/A	N/A	0.0 + 0.2
Ground Water Temperature (oF) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft2)	Average Annual Freeze-Thaw Cycles (#)
65.1	N/A	N/A	0

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

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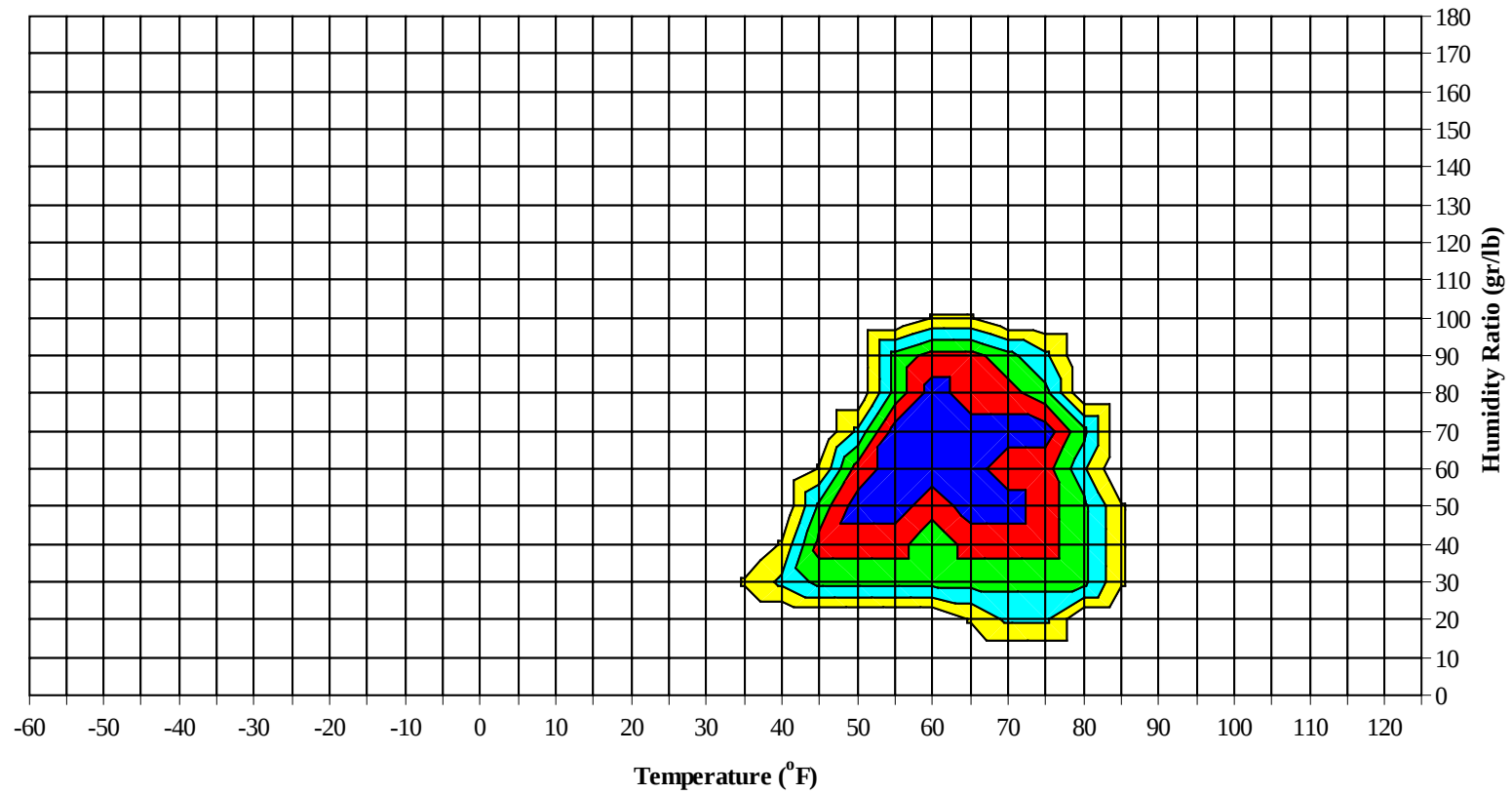


No Precipitation Data Available

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Long Term Psychrometric Summary

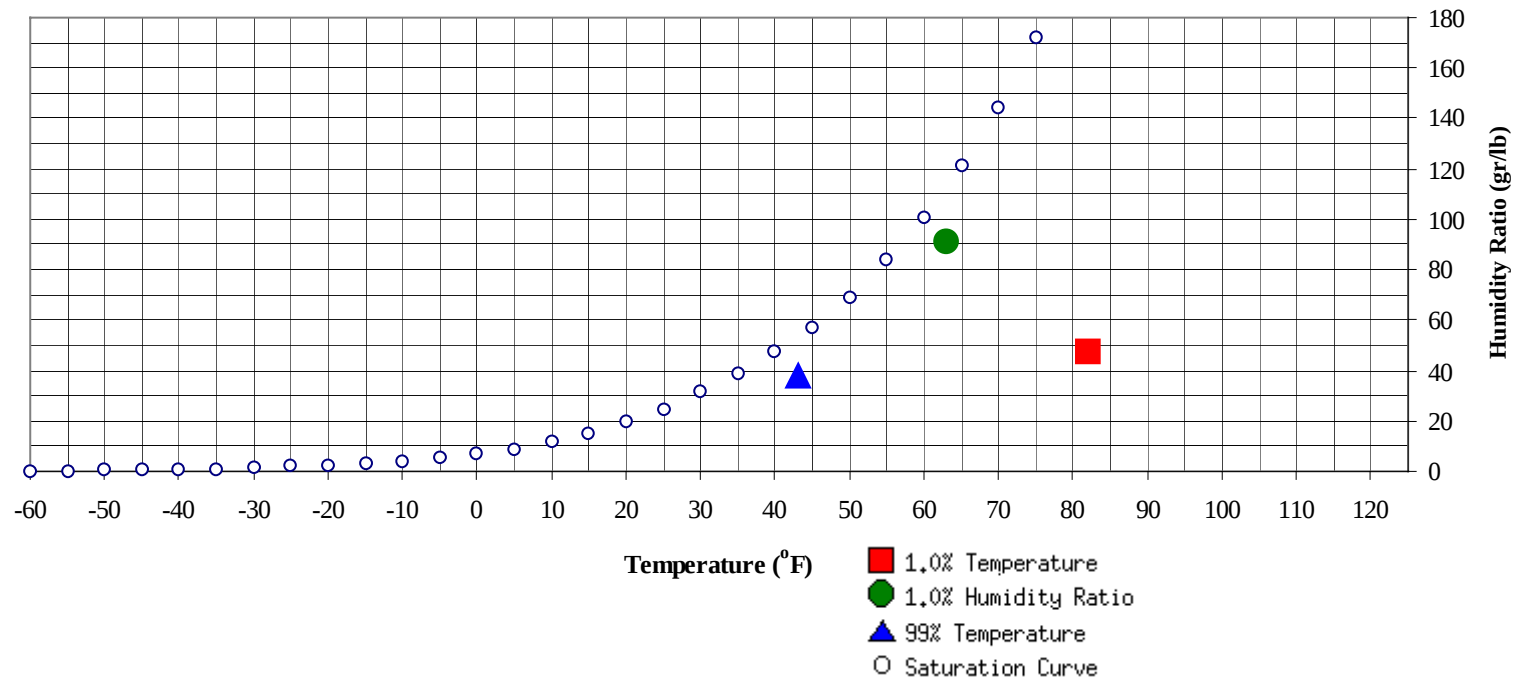


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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Psychrometric Summary of Peak Design Values



	(oF)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (oF)	MCWB (oF)	MC Dewpt (oF)	Enthalpy (btu/lb)
99% Dry Bulb	43	37.7	16.1		91	62.9	59.1	57.2	29.3

	(oF)	MCHR (gr/lb)	MCWB (oF)	Enthalpy (btu/lb)
1.0% Dry Bulb	82	47.8	56.5	27.2

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

Period of Record = 1985 to 1996

Temperature Range (oF)	January					February					March				
	Hour Group (LST)			Total Obs	M C W B (oF)	Hour Group (LST)			Total Obs	M C W B (oF)	Hour Group (LST)			Total Obs	M C W B (oF)
	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		
90 / 94											1	0	1		55.0
85 / 89											7	1	8		55.1
80 / 84		0	0	0	57.5	6	1	7	53.0		32	12	44		54.7
75 / 79		13	3	16	52.1	39	20	60	52.9		57	30	87		53.7
70 / 74		68	29	97	51.2	55	37	93	51.7		61	59	120		52.3
65 / 69		38	30	68	50.6	27	30	58	50.6	2	27	48	77		51.1
60 / 64	1	45	78	124	49.3	6	40	75	121	49.1	33	35	68	136	49.4
55 / 59	28	39	75	142	47.4	42	29	41	113	47.0	82	18	23	124	47.1
50 / 54	90	28	29	148	45.4	88	20	17	125	44.9					
45 / 49	85	14	3	102	41.4	67	5	2	74	41.4	86	8	6	100	45.0
40 / 44	26	2		28	37.7	15	1	0	16	38.1	31	2	1	34	41.2
35 / 39	16	1		17	33.7	6	0		6	33.0	9	0		9	37.2
30 / 34	2			2	29.4	1	0		1	29.2	4	0		4	33.5
25 / 29											0			0	26.0

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.

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

Period of Record = 1985 to 1996

Temperature Range (oF)	April					May					June				
	Hour Group (LST)			Total Obs	M C W B (oF)	Hour Group (LST)			Total Obs	M C W B (oF)	Hour Group (LST)			Total Obs	M C W B (oF)
	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		
90 / 94	0	0	0		58.5	0	0	0		57.8	0		0		61.0
85 / 89	5	1	6		57.4	8	3	11		57.9	3	1	4		57.3
80 / 84	35	9	44		55.9		42	14		57.2		22	11		57.9
75 / 79	69	30	100		54.5	0	69	32	101	56.7		48	20	68	57.7
70 / 74	2	63	60	125	53.2	1	63	61	125	55.7	1	73	41	115	57.5
65 / 69	9	27	50	86	52.1	18	33	46	97	55.1	7	46	45	98	57.0
60 / 64	64	32	62	157	50.5	94	29	68	191	53.2	100	41	98	239	55.5
55 / 59	108	8	23	139	48.9	101	4	23	128	51.5	124	6	24	154	53.5
50 / 54	50	1	4	55	46.5	34		1	35	47.7	8			8	48.1
45 / 49	8			8	42.1	0			0	47.0	0			0	45.0
40 / 44															
35 / 39															
30 / 34															
25 / 29															

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

Period of Record = 1985 to 1996

Temperature Range (oF)	July					August					September				
	Hour Group (LST)			Total Obs	M C W B (oF)	Hour Group (LST)			Total Obs	M C W B (oF)	Hour Group (LST)			Total Obs	M C W B (oF)
	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		
90 / 94															
85 / 89							0	0							
80 / 84		1	1	2	59.4		1	1	2	59.1	0	0	0		58.8
75 / 79		43	13	56	58.4	0	39	11	49	59.2	29	9	38		59.0
70 / 74		91	29	120	57.6	0	87	32	119	58.4		82	27	109	57.9
65 / 69	0	47	42	89	57.1	0	47	38	85	57.6	0	49	35	84	57.5
60 / 64	53	57	127	237	55.5	52	60	130	242	55.9	35	62	118	216	56.0
55 / 59	177	9	34	220	53.7	181	14	37	232	53.7	176	17	50	243	53.7
50 / 54	18		1	19	48.6	14		0	14	49.6	24	1	1	27	49.1
45 / 49	0			0	44.7	0			0	47.0	4			4	42.8
40 / 44															
35 / 39															
30 / 34															
25 / 29															

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Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)**Period of Record = 1985 to 1996**

Temperature Range (oF)	October					November					December				
	Hour Group (LST)			Total Obs	M C W B (oF)	Hour Group (LST)			Total Obs	M C W B (oF)	Hour Group (LST)			Total Obs	M C W B (oF)
	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		
90 / 94															
85 / 89															
80 / 84		1	0	1	59.3		1		1	56.1		0		0	52.0
75 / 79		35	11	46	57.4		31	10	41	56.3		14	6	20	52.8
70 / 74		76	31	107	56.6		67	31	98	54.4		70	34	103	52.7
65 / 69	0		44	39	83 55.9			35 36		71 53.9		38	34	72	51.6
60 / 64	21		57	98	177 54.4	8		49 83		140 52.2	0	44	83	127	50.1
55 / 59	143	30	63	235	52.5	63		32 59		154 50.2	35	34	73	143	48.2
50 / 54	66	5	6	78	48.2	91		18 18		127 47.2	101	31	15	147	45.9
45 / 49	18	0		18	42.6	60	6	3	69	42.5	86	15	3	103	42.1
40 / 44	0			0	38.0	12	1	0	13	38.7	19	2		21	38.4
35 / 39	0			0	37.0	6	0	0	6	35.2	8	0		8	34.9
30 / 34						1		0	1	31.0					
25 / 29								0	0	22.0					

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.

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

Period of Record = 1985 to 1996

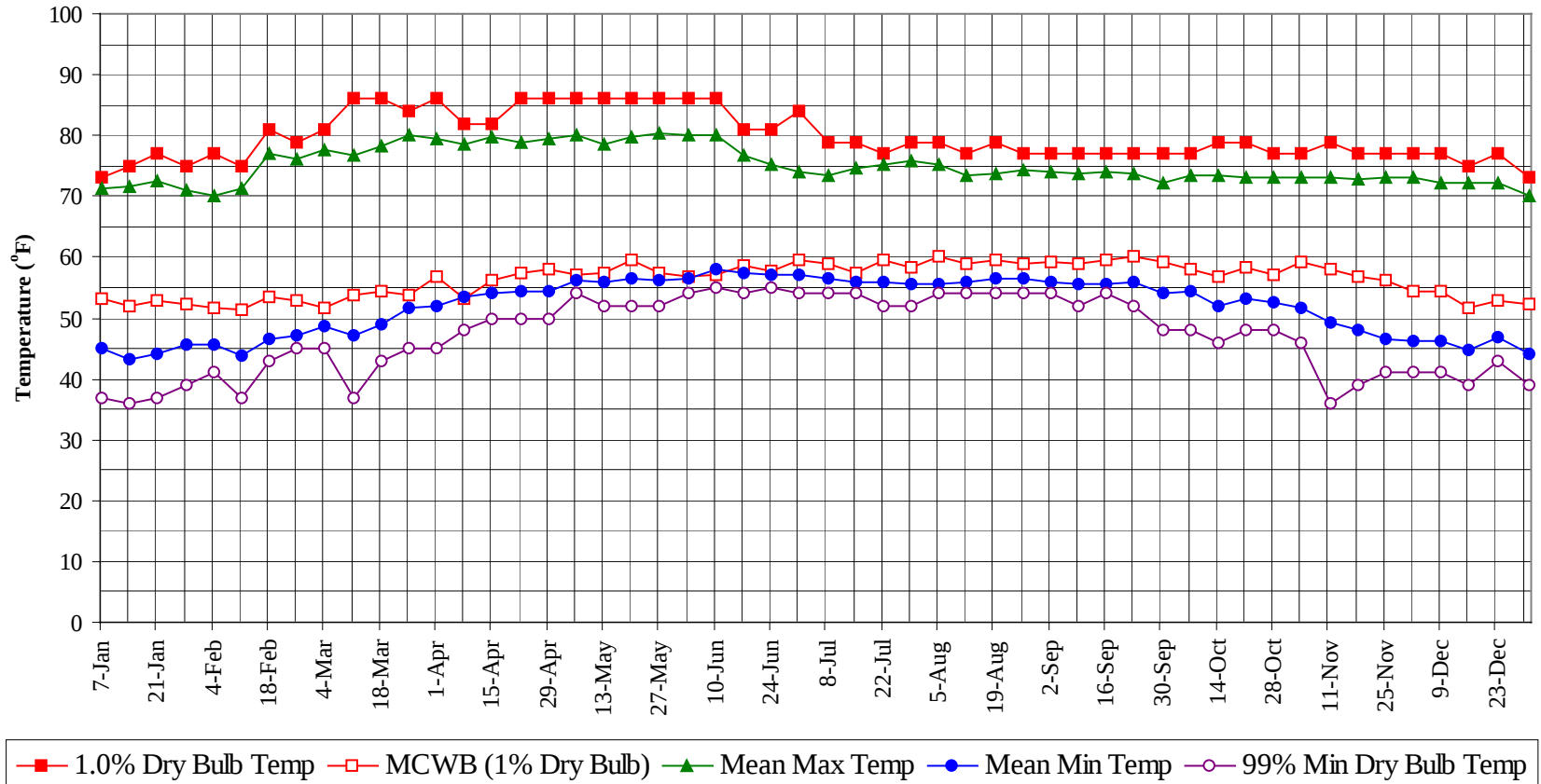
Annual Totals					
Temperature Range (oF)	Hour Group (LST)			Total Obs	M C W B (oF)
	01 To 08	09 To 16	17 To 00		
90 / 94		2	1	3	56.8
85 / 89		22	6	28	57.0
80 / 84		141	47	188	56.4
75 / 79	0	482	191	673	56.1
70 / 74	4	858	466	1328	55.1
65 / 69	36	461	473	970	54.5
60 / 64	471	554	1092	2117	53.3
55 / 59	1267	238	532	2036	51.3
50 / 54	664	113	100	878	46.3
45 / 49	356	42	11	410	41.9
40 / 44	79	5	1	85	38.1
35 / 39	38	2	0	40	34.1
30 / 34	4	0	0	4	29.8
25 / 29			0	0	22.0

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.

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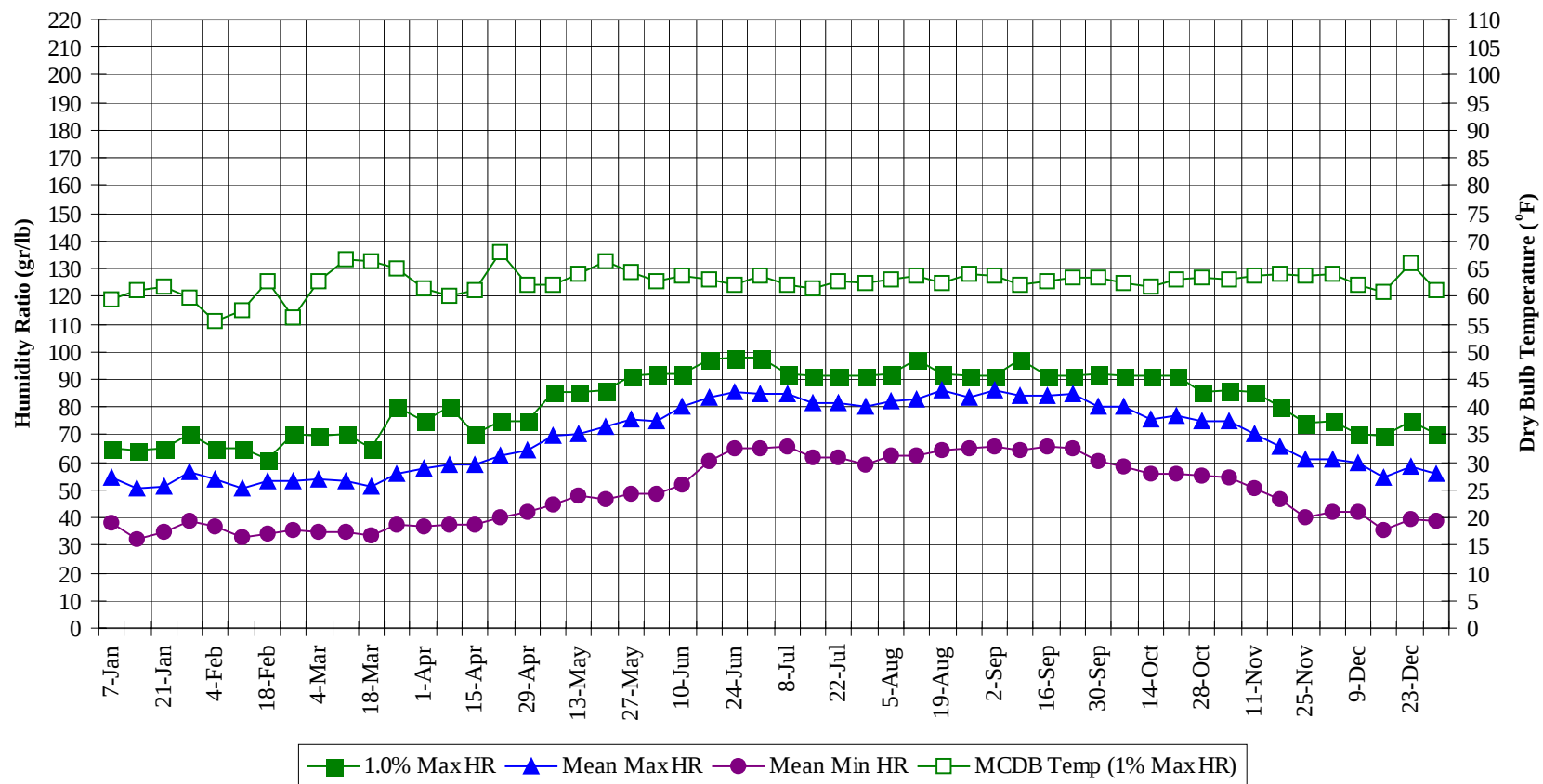
Annual Summary of Temperatures



MEXICO CITY MX

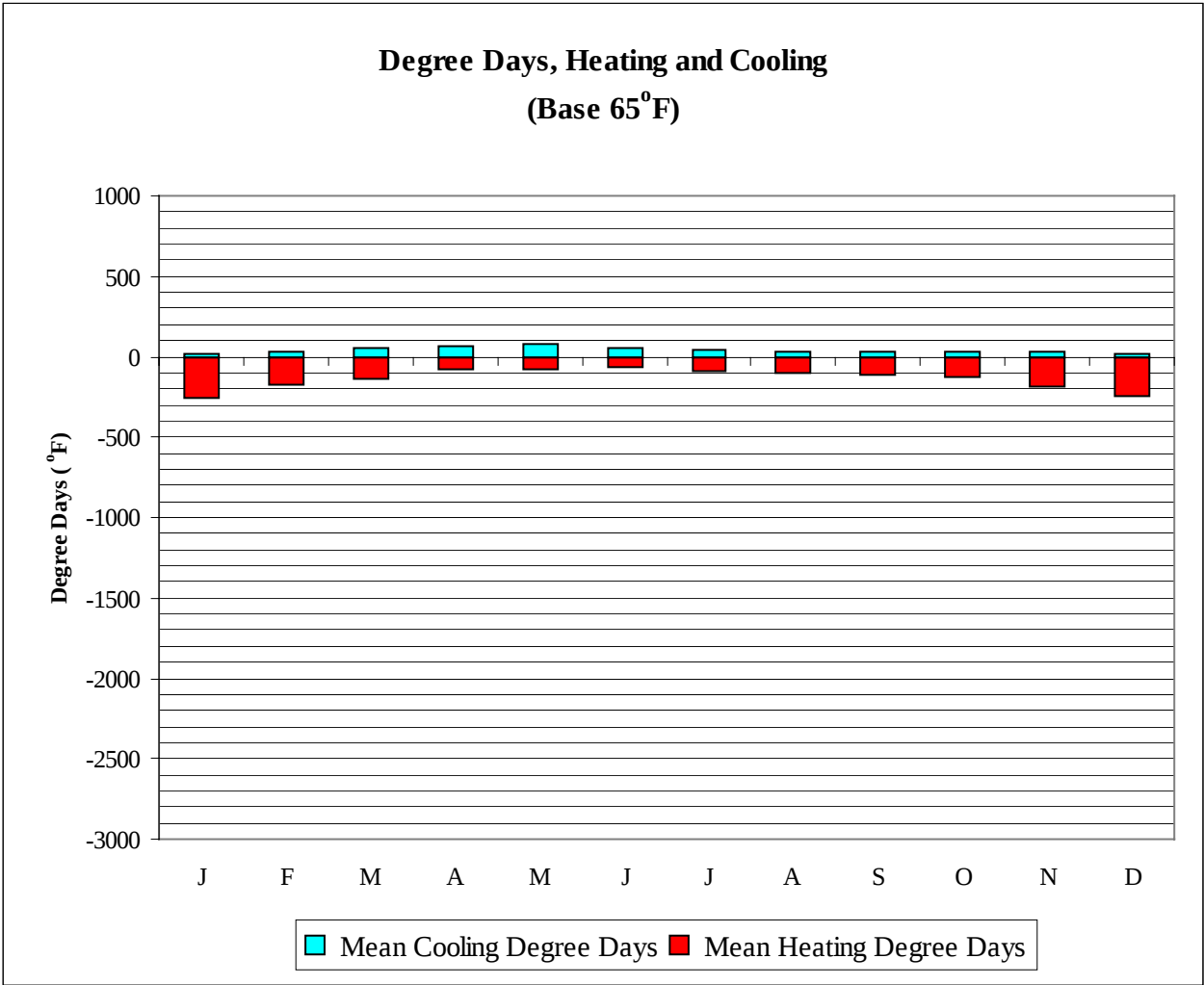
WMO No. 766793

Long Term Humidity and Dry Bulb Temperature Summary



MEXICO CITY MX**WMO No. 766793****Long Term Dry Bulb Temperature and Humidity Summary**

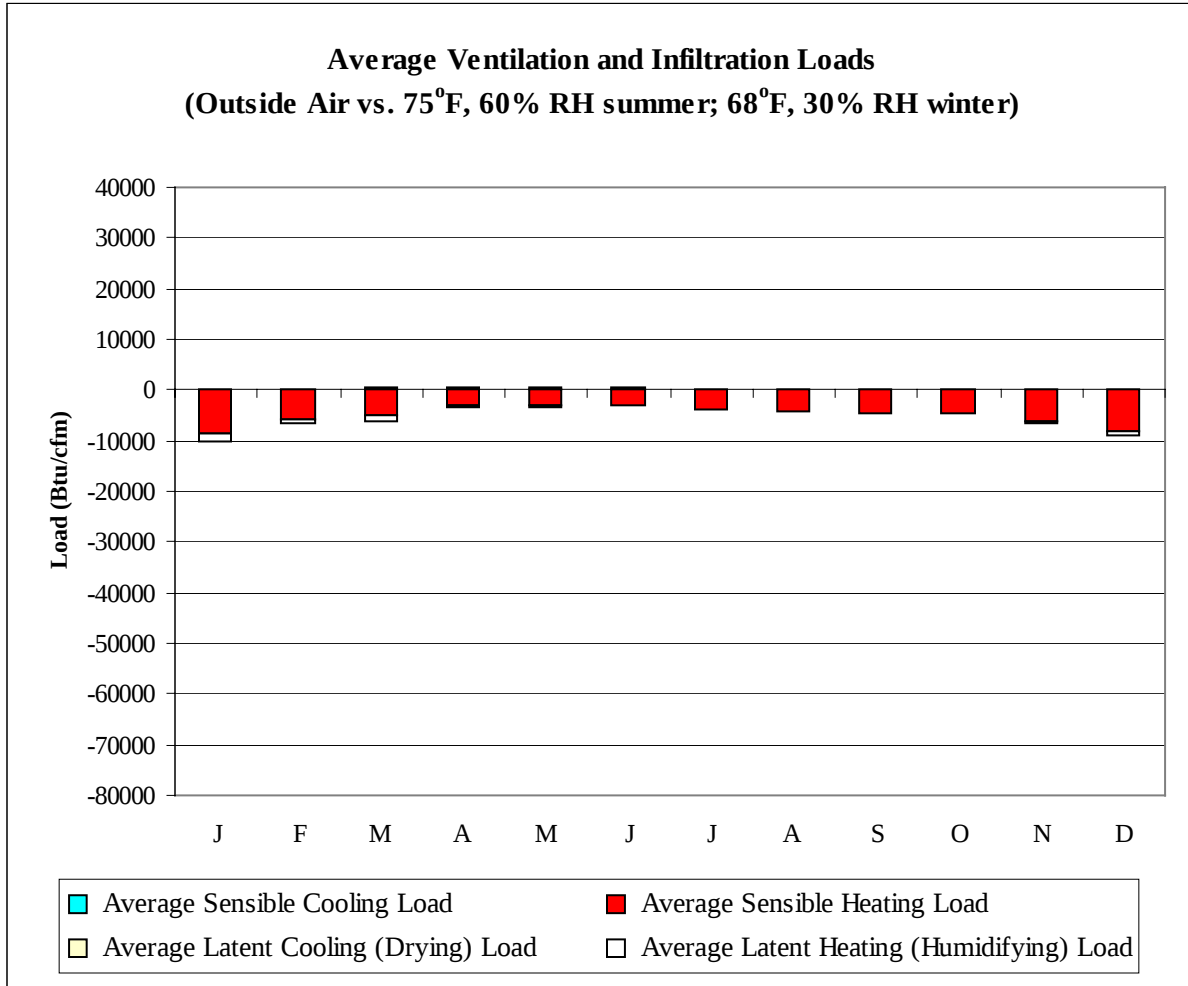
Week Ending	1.0% Temp (oF)	MCWB @ 1% Temp (oF)	Mean Max Temp (oF)	Mean Min Temp (oF)	99% Temp (oF)	1.0% HR (gr/lb)	MCDB @ 1% HR (oF)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	73.0	53.2	71.4	44.9	37.0	65.1	59.5	54.7	38.4
14-Jan	75.0	52.0	71.6	43.3	36.0	64.4	61.1	50.9	32.2
21-Jan	77.0	53.0	72.4	44.0	37.0	65.1	61.6	51.5	34.9
28-Jan	75.0	52.2	71.0	45.5	39.0	70.0	59.8	56.3	38.6
4-Feb	77.0	51.6	70.2	45.7	41.0	65.1	55.4	54.2	37.1
11-Feb	75.0	51.5	71.4	43.8	37.0	65.1	57.4	50.4	32.9
18-Feb	81.0	53.4	77.0	46.5	43.0	60.9	62.6	52.9	34.2
25-Feb	79.0	52.8	76.3	47.2	45.0	70.0	56.3	53.0	35.3
4-Mar	81.0	51.8	77.7	48.5	45.0	69.3	62.8	53.6	35.0
11-Mar	86.0	53.8	76.8	47.0	37.0	70.0	66.8	53.0	35.0
18-Mar	86.0	54.5	78.4	48.8	43.0	65.1	66.3	51.3	33.6
25-Mar	84.0	53.9	80.2	51.5	45.0	79.8	65.1	56.1	37.1
1-Apr	86.0	56.9	79.6	52.0	45.0	74.9	61.5	58.0	37.0
8-Apr	82.0	53.2	78.4	53.5	48.0	79.8	60.2	59.0	37.4
15-Apr	82.0	56.2	79.9	54.0	50.0	70.0	61.2	59.1	37.4
22-Apr	86.0	57.5	78.8	54.5	50.0	74.9	68.1	62.2	40.2
29-Apr	86.0	57.9	79.5	54.4	50.0	74.9	62.2	64.3	41.8
6-May	86.0	57.1	80.1	56.2	54.0	85.4	62.2	69.3	44.8
13-May	86.0	57.3	78.6	55.9	52.0	85.4	64.1	70.1	48.2
20-May	86.0	59.6	79.9	56.6	52.0	86.1	66.4	72.6	46.8
27-May	86.0	57.5	80.4	56.2	52.0	91.0	64.4	75.3	48.4
3-Jun	86.0	56.9	80.1	56.5	54.0	91.7	62.9	75.1	48.4
10-Jun	86.0	57.2	80.2	57.9	55.0	91.7	63.6	80.4	51.7
17-Jun	81.0	58.6	76.8	57.3	54.0	97.3	63.0	83.4	60.6
24-Jun	81.0	57.7	75.1	57.1	55.0	98.0	62.0	85.5	64.7
1-Jul	84.0	59.6	74.1	57.1	54.0	98.0	63.6	84.9	64.7
8-Jul	79.0	59.0	73.5	56.6	54.0	91.7	62.2	84.8	65.7
15-Jul	79.0	57.4	74.6	55.9	54.0	91.0	61.4	81.6	61.4
22-Jul	77.0	59.4	75.3	55.9	52.0	91.0	62.6	81.7	61.8
29-Jul	79.0	58.2	75.9	55.7	52.0	91.0	62.4	80.0	59.1
5-Aug	79.0	60.0	75.3	55.7	54.0	91.7	63.1	82.0	62.1
12-Aug	77.0	59.0	73.5	55.8	54.0	97.3	63.8	82.9	62.4
19-Aug	79.0	59.5	73.7	56.6	54.0	91.7	62.3	86.3	64.4
26-Aug	77.0	59.0	74.2	56.4	54.0	91.0	64.1	83.4	65.1
2-Sep	77.0	59.3	74.1	55.9	54.0	91.0	63.6	86.0	65.4
9-Sep	77.0	58.9	73.9	55.7	52.0	97.3	62.1	84.3	64.2
16-Sep	77.0	59.6	73.9	55.7	54.0	91.0	62.7	83.7	65.4
23-Sep	77.0	60.0	73.7	55.9	52.0	91.0	63.4	84.4	64.7
30-Sep	77.0	59.2	72.2	54.0	48.0	91.7	63.3	79.8	60.5
7-Oct	77.0	58.1	73.4	54.4	48.0	91.0	62.3	80.2	58.5
14-Oct	79.0	56.8	73.3	52.0	46.0	91.0	61.9	75.4	55.8
21-Oct	79.0	58.3	73.1	53.2	48.0	91.0	62.9	77.1	56.1
28-Oct	77.0	57.3	73.1	52.6	48.0	85.4	63.3	74.7	55.1
4-Nov	77.0	59.1	73.2	51.6	46.0	86.1	63.2	75.1	54.2
11-Nov	79.0	57.9	73.0	49.3	36.0	85.4	63.6	70.0	50.5
18-Nov	77.0	56.9	72.7	48.0	39.0	79.8	64.1	65.7	46.4
25-Nov	77.0	56.2	73.0	46.5	41.0	74.2	63.6	60.8	39.9
2-Dec	77.0	54.4	73.2	46.2	41.0	74.9	64.0	61.3	42.0
9-Dec	77.0	54.2	72.1	46.2	41.0	70.0	62.1	59.8	41.8
16-Dec	75.0	51.7	72.1	44.8	39.0	69.3	60.9	54.4	35.5
23-Dec	77.0	52.8	72.2	46.7	43.0	74.9	66.0	58.7	39.2
31-Dec	73.0	52.3	70.0	44.1	39.0	70.0	61.1	55.6	38.6



	Mean Cooling Degree Days (oF)	Mean Heating Degree Days (oF)
JAN	18	262
FEB	29	173
MAR	57	143
APR	61	77
MAY	81	72
JUN	56	69
JUL	38	92
AUG	34	97
SEP	29	108
OCT	27	121
NOV	29	182
DEC	23	248
ANN	481	1644

MEXICO CITY MX

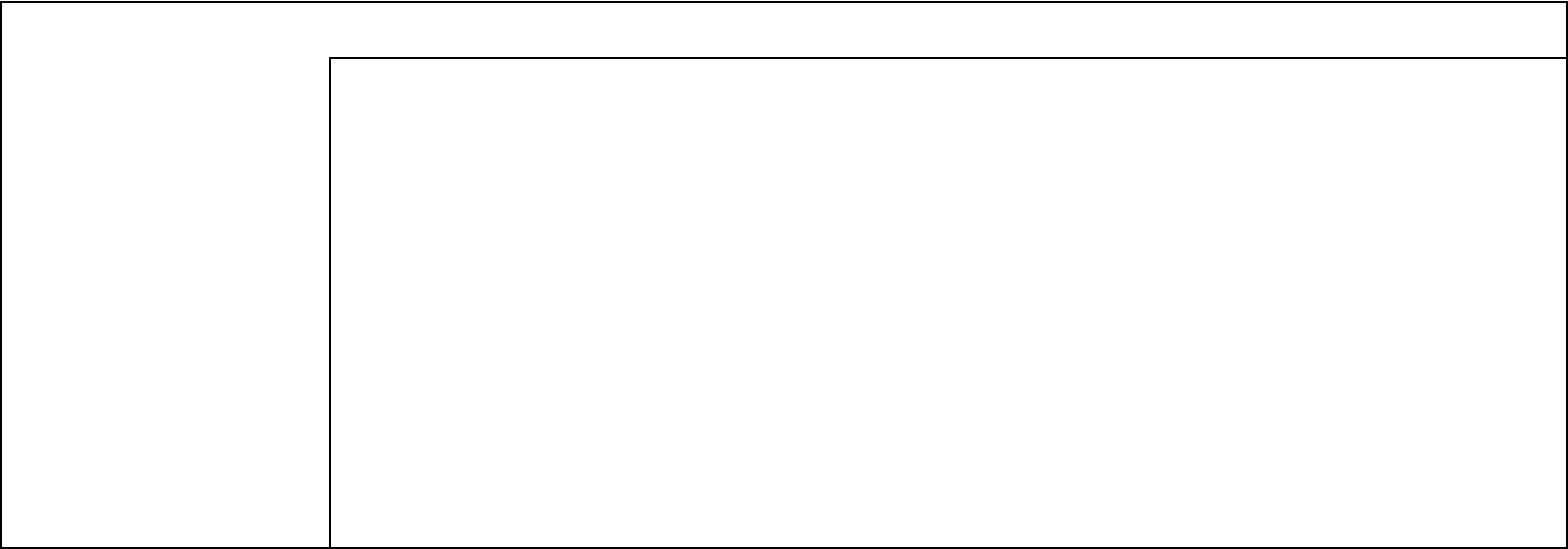
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	Average Sensible Cooling Load	Average Sensible Heating Load	Average Latent Cooling Load	Average Latent Heating Load
	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)
JAN	13	-8726	0	-1223
FEB	116	-5871	0	-884
MAR	554	-5136	0	-1213
APR	469	-3078	0	-536
MAY	693	-3065	0	-189
JUN	391	-3185	3	-33
JUL	78	-4006	0	0
AUG	62	-4215	1	0
SEP	41	-4521	1	-8
OCT	49	-4675	1	-64
NOV	45	-6263	0	-279
DEC	16	-8323	0	-622
ANN	2527	-61064	6	-5051

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

No Solar Radiation
Data Available

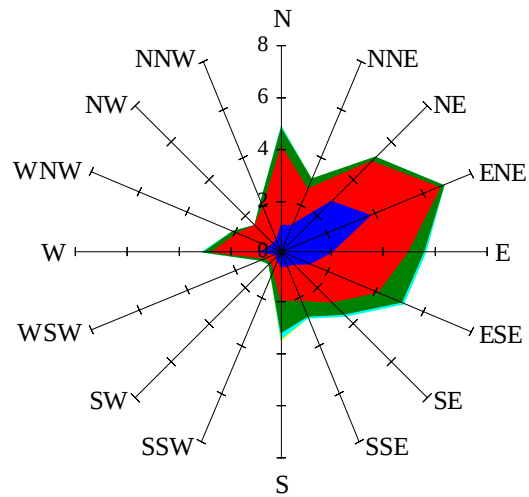


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

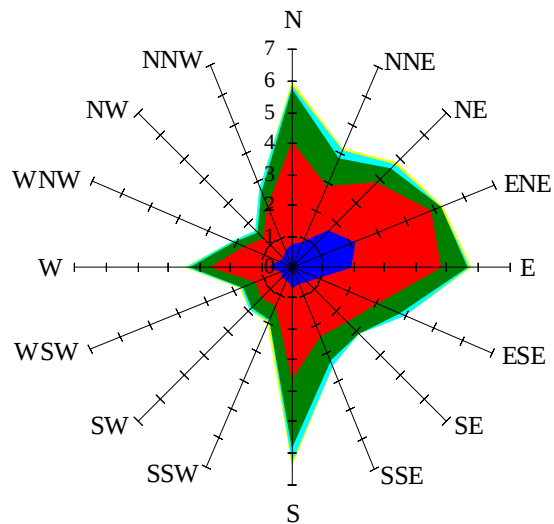
Labels of Percent Frequency on North Axis



Percent Calm = 48.49

Wind Summary - March, April, and May

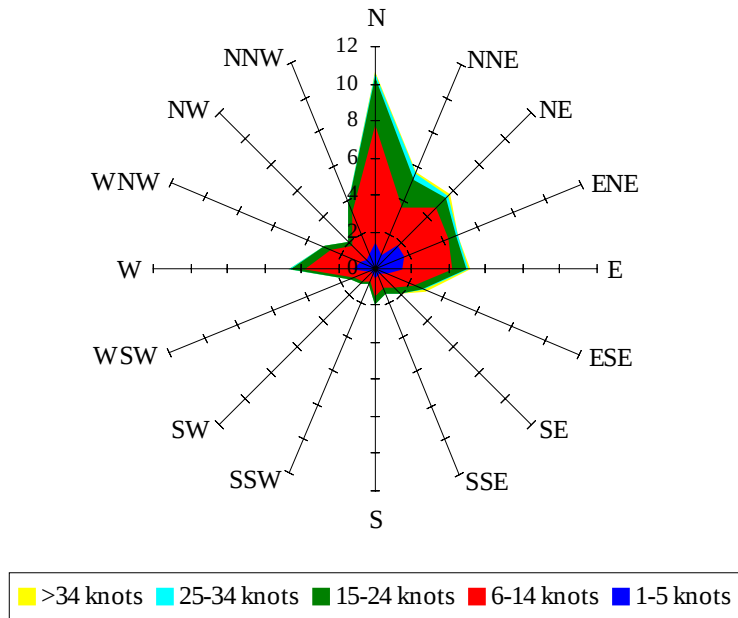
Labels of Percent Frequency on North Axis



Percent Calm = 42.35

Wind Summary - June, July, and August

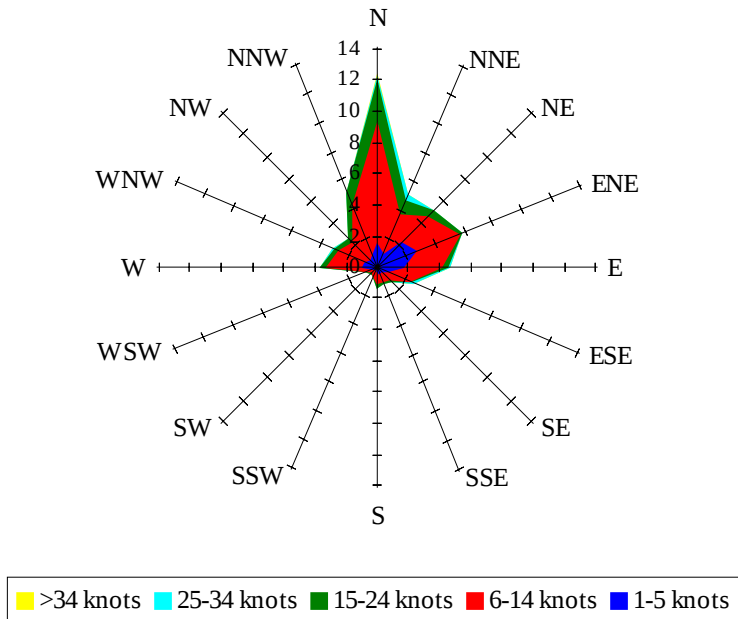
Labels of Percent Frequency on North Axis



Percent Calm = 43.72

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 45.25