

TEL-AVIV IS

Latitude = 32.10 N

Longitude = 34.78 E

Period of Record = 1967 to 1996

WMO No. 401760

Elevation = 13 feet

Average Pressure = 29.85 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	98	65	38	4.6	E
0.4% Occurrence	89	70	82	10.3	W
1.0% Occurrence	86	74	107	11.6	W
2.0% Occurrence	85	75	113	11.3	W
Mean Daily Range	11	-	-	-	-
97.5% Occurrence	49	46	39	6.9	ESE
99.0% Occurrence	46	43	36	5.7	ESE
99.6% Occurrence	44	41	32	6.5	E
Median of Extreme Lows	42	39	31	5.8	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	79	85	141	9.9	WNW
0.4% Occurrence	78	84	135	9.9	W
1.0% Occurrence	77	83	130	8.9	W
2.0% Occurrence	76	83	125	9.0	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	142	83	0.94	7.6	WNW
0.4% Occurrence	137	83	0.90	6.3	N
1.0% Occurrence	132	82	0.88	7.8	W
2.0% Occurrence	127	82	0.84	7.9	W
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		15	1437	1106	3191

Other Site Data

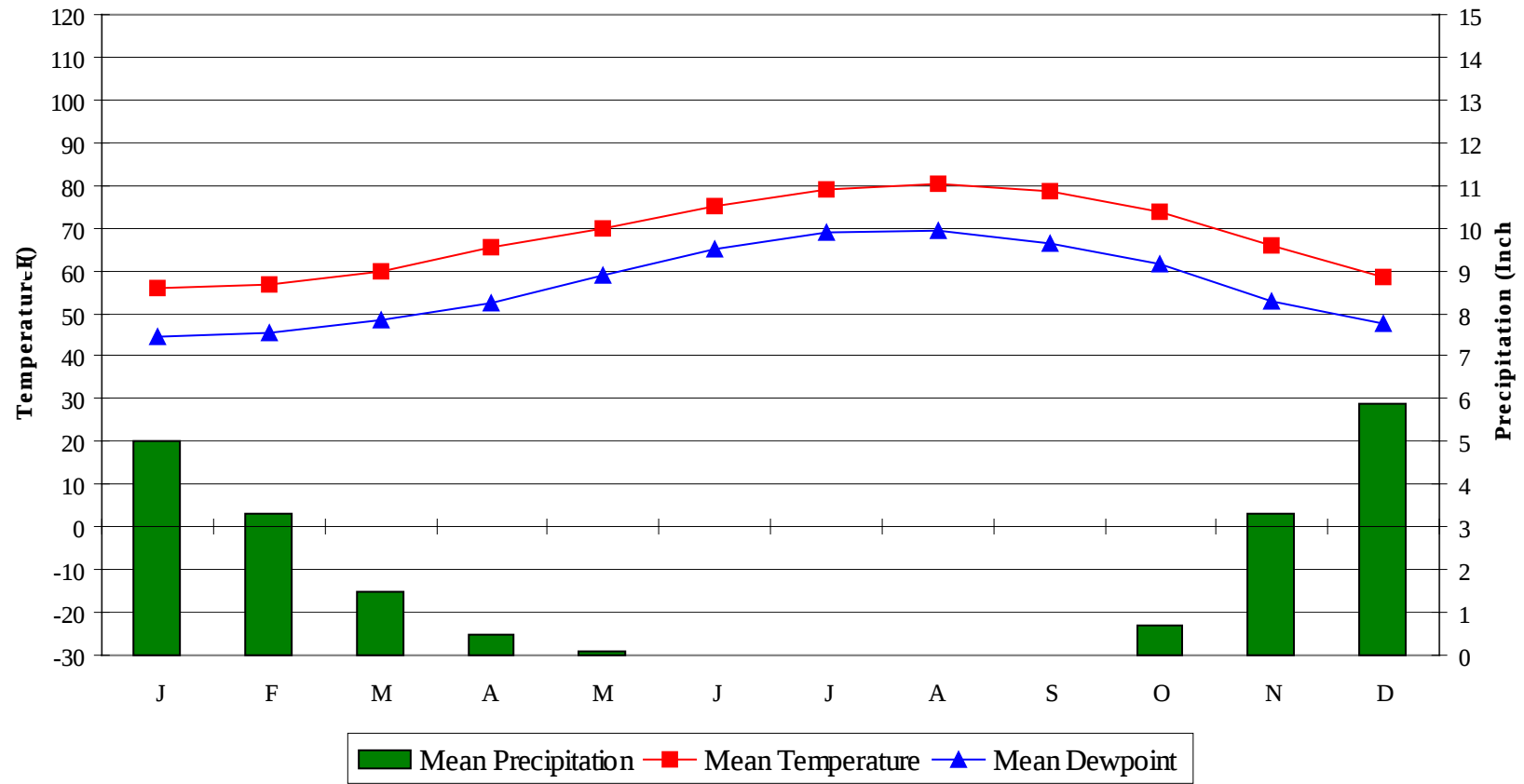
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
9	N/A	N/A	1.3 + 1.0
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
71.0	N/A	N/A	0

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

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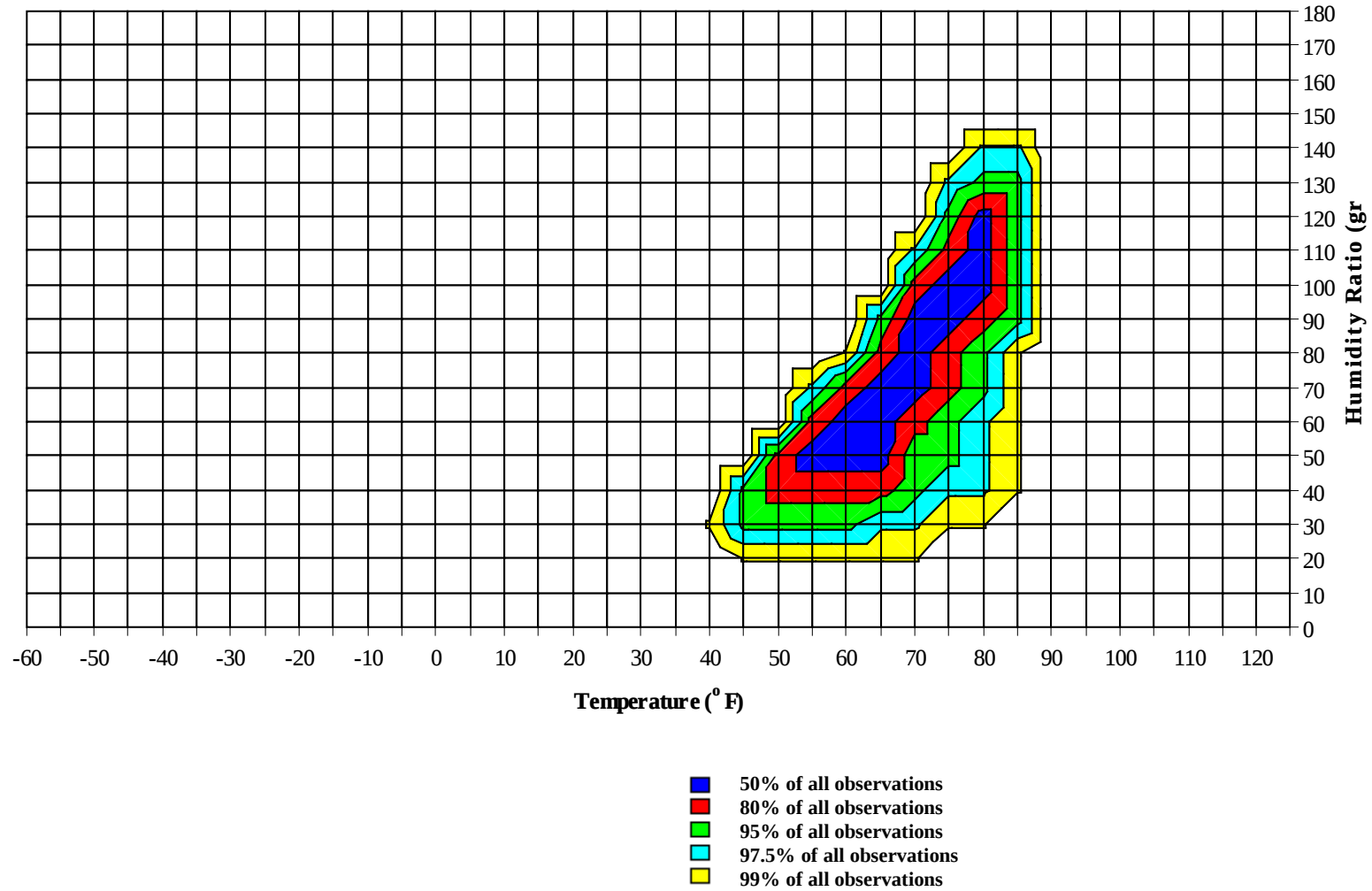
Average Annual Climate

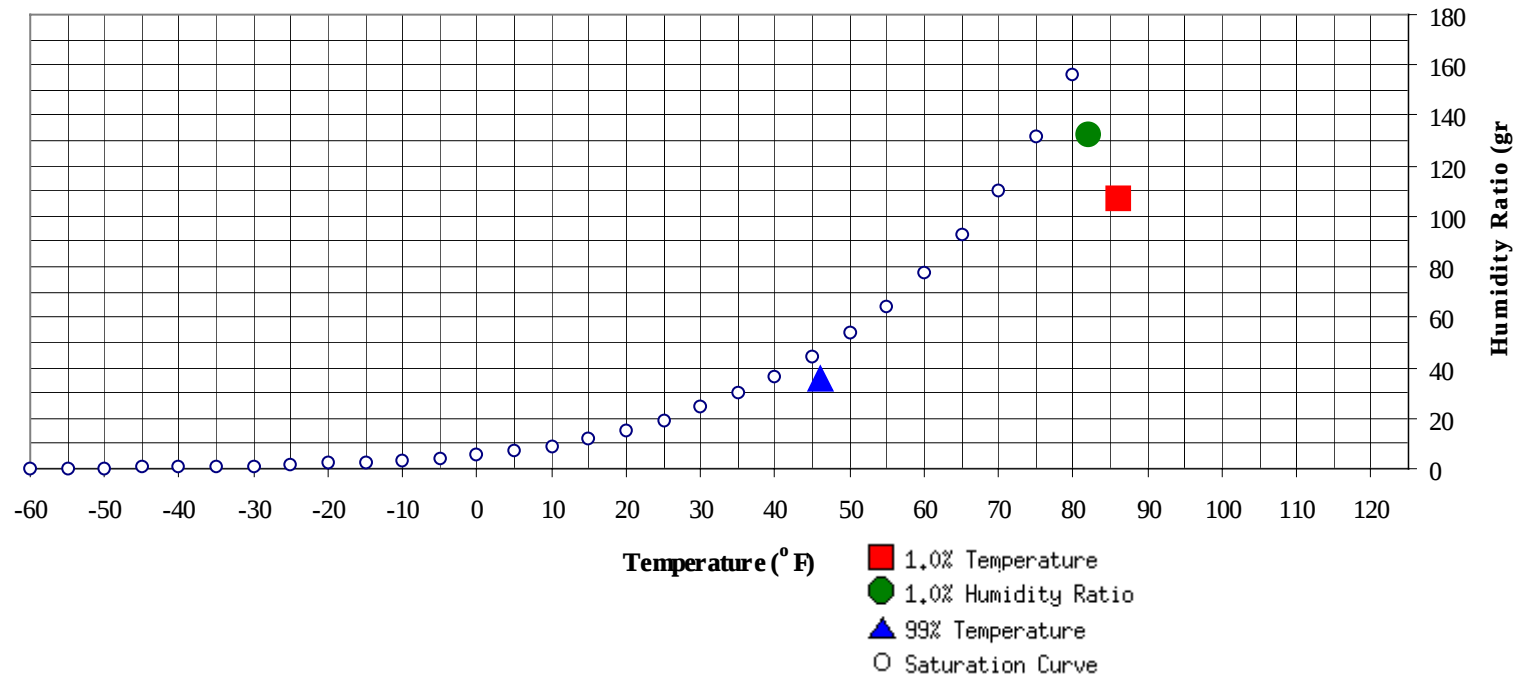


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Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values

	(°F)	MCHR	Enthalpy	1.0% Humidity	(gr/lb)	MCDB	MCWB	MC Dewpt	Enthalpy
		(gr/lb)	(btu/lb)			(°F)	(°F)	(°F)	(btu/lb)
99% Dry Bulb	46	36	16.6	Ratio	132.3	82.1	77	75	40.4

	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
1.0% Dry Bulb	86	106.9	73.6	37.4

TEL-AVIV IS

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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		
105 / 109															
100 / 104															
95 / 99															
90 / 94												0		0	59.3
85 / 89						0			0		0	1	0	1	60.2
80 / 84						0	2	1	3	59.4	0	4	1	5	60.3
75 / 79		1		1	58.5	0	5	1	6	57.3	2	8	3	12	59.1
70 / 74	1	7	3	11	56.6	0	11	4	15	56.2	5	19	10	33	58.9
65 / 69	1	26	5	32	55.7	3	24	9	35	55.4	8	63	23	94	58.1
60 / 64	10	116	56	182	54.0	13	109	57	179	54.3	45	113	100	257	55.6
55 / 59	45	70	103	218	51.1	52	50	91	193	51.3	85	34	85	204	52.2
50 / 54	114	24	66	203	48.3	98	19	48	164	48.3	77	8	24	109	49.0
45 / 49	64	2	15	82	44.0	48	5	11	64	44.6	24	0	3	26	44.9
40 / 44	12	1	2	15	39.2	10	0	2	12	40.0	3		0	3	38.8
35 / 39	1		0	1	36.0	1		0	1	36.1	0			0	36.0

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 = 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		
105 / 109							0		0	68.5					
100 / 104		1	0	1	66.0	0	1		1	69.6		0		0	65.0
95 / 99		3	1	3	62.4	0	1	0	1	66.9	0	0	0	0	66.0
90 / 94	0	6	1	7	62.5	1	3	2	5	65.2	0	3	1	3	68.6
85 / 89	1	6	2	9	62.9	1	5	2	8	65.8	1	5	2	8	70.0
80 / 84	4	8	6	18	61.0	3	13	5	21	66.7	5	85	30	119	71.9
75 / 79	5	18	9	32	60.7	10	62	26	98	66.9	68	133	122	323	69.6
70 / 74	14	54	24	93	61.6	56	133	93	281	64.6	112	14	79	205	67.0
65 / 69	31	113	66	210	59.5	83	30	93	206	61.9	47	0	6	53	63.9
60 / 64	96	28	107	231	56.9	75	0	27	102	59.1	8		0	8	60.0
55 / 59	63	3	23	88	53.7	19	0	0	19	54.6	0		0	0	56.5
50 / 54	25	0	1	26	50.0	1	0		1	51.4					
45 / 49	1		0	1	46.2										
40 / 44															
35 / 39															

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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		
105 / 109															
100 / 104		0	0	0	79.5										
95 / 99	0	0	0	0	87.0								0	0	77.0
90 / 94	0	0	0	0	73.8	0	0		0	74.3		1	0	1	72.5
85 / 89	0	35	7	42	75.8	0	81	13	94	76.0	1	33	4	38	74.8
80 / 84	37	204	111	352	73.5	64	166	149	379	73.6	21	186	88	295	72.0
75 / 79	130	9	128	267	71.4	135	1	86	222	71.5	116	19	137	272	69.7
70 / 74	79	0	2	81	68.5	49	0	0	49	68.5	90	0	12	102	66.9
65 / 69	2	0		2	63.8	1	0	0	1	64.7	11		0	11	63.3
60 / 64	0			0	58.0						1			1	57.3
55 / 59															
50 / 54															
45 / 49															
40 / 44															
35 / 39															

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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		
105 / 109															
100 / 104															
95 / 99		2		2	66.3										
90 / 94	0	5	1	6	69.4		1	0	1	63.2					
85 / 89	1	11	2	14	70.0		5	1	6	63.2					
80 / 84	5	79	15	99	70.2	0	11	3	14	62.6		0	0	0	61.0
75 / 79	39	126	114	280	68.0	4	58	10	71	63.9	0	4	0	4	61.7
70 / 74	91	21	90	202	65.0	14	96	58	169	62.3	0	25	3	28	59.7
65 / 69	74	2	20	96	62.0	44	46	77	168	59.3	4	77	27	107	57.9
60 / 64	36	1	5	42	58.7	91	16	63	171	56.8	24	98	81	203	54.9
55 / 59	3		0	3	54.5	66	6	23	95	53.0	93	32	96	221	52.2
50 / 54						18	0	5	23	48.0	98	11	38	146	48.7
45 / 49						3		0	3	43.0	28	0	5	33	43.9
40 / 44						0		0	0	38.7	2			2	40.4
35 / 39															

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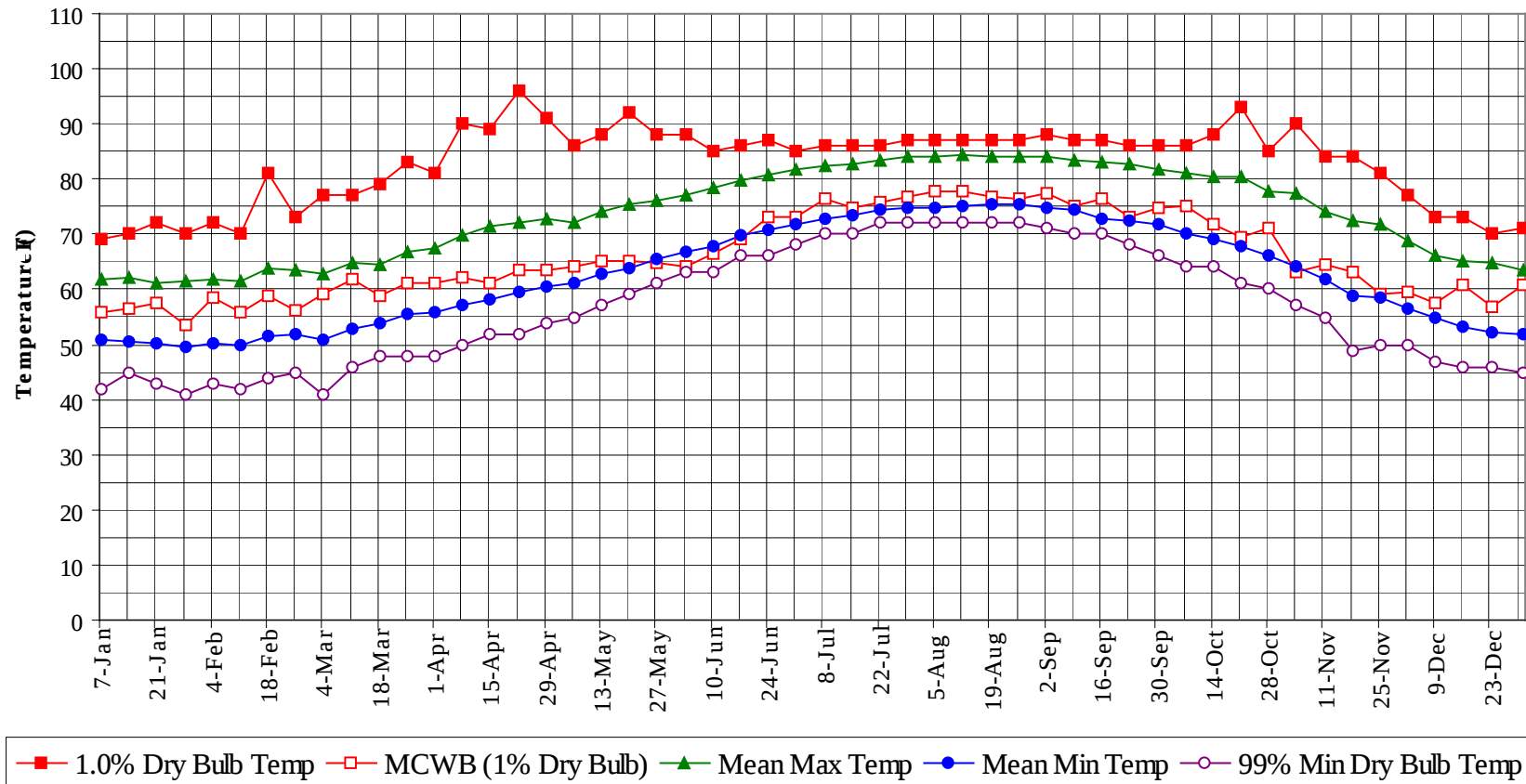
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1967 to 1996

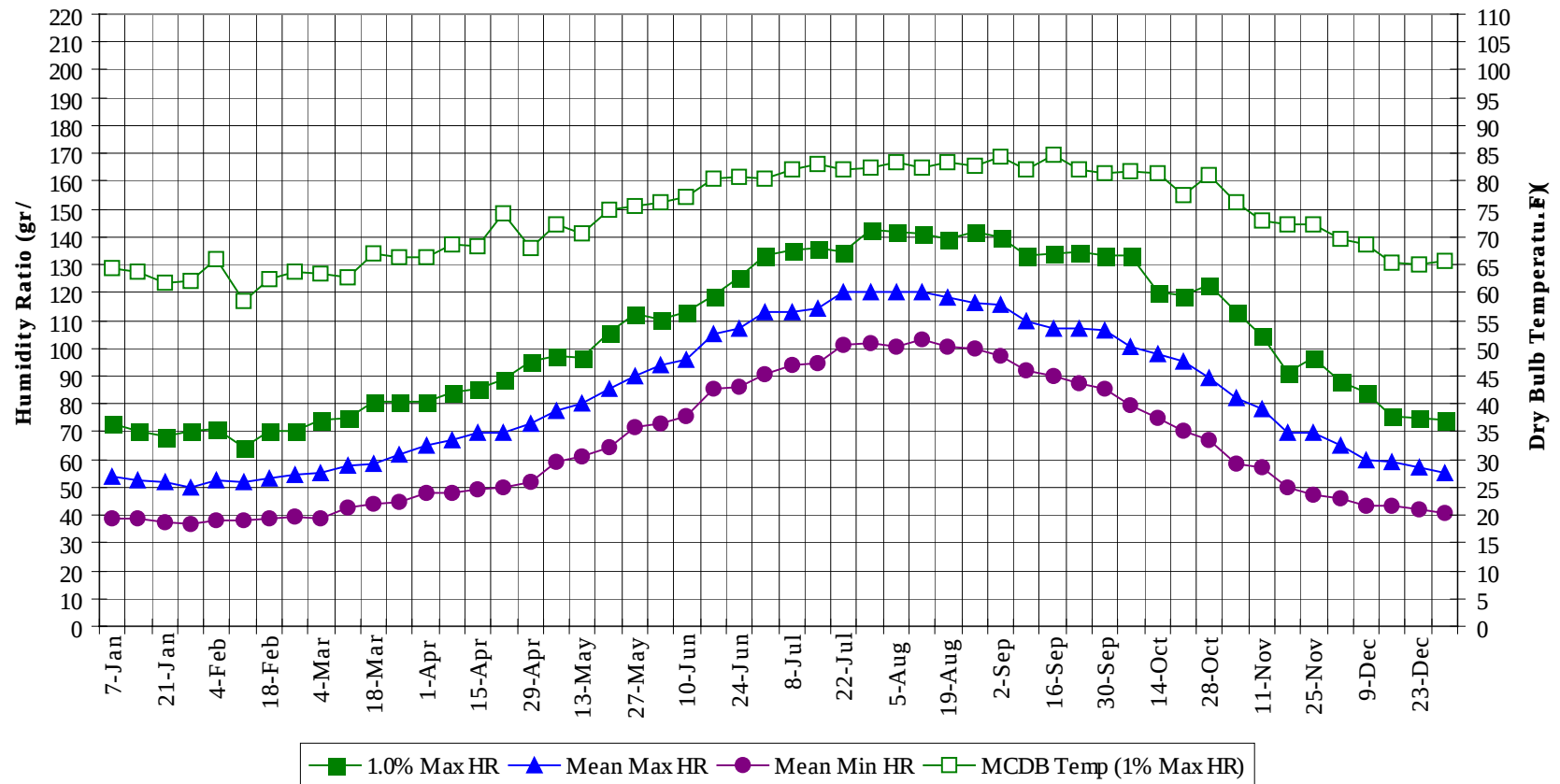
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		0		0	68.5
100 / 104	0	3	0	3	69.1
95 / 99	0	6	2	8	65.5
90 / 94	3	20	5	28	66.3
85 / 89	4	186	34	223	73.8
80 / 84	141	762	418	1321	72.4
75 / 79	518	447	651	1616	69.3
70 / 74	521	383	383	1286	64.9
65 / 69	312	380	327	1020	60.1
60 / 64	401	474	487	1362	56.0
55 / 59	419	190	404	1013	52.1
50 / 54	415	61	174	649	48.6
45 / 49	161	8	32	200	44.3
40 / 44	25	1	4	30	39.5
35 / 39	2		0	2	36.1

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



TEL-AVIV

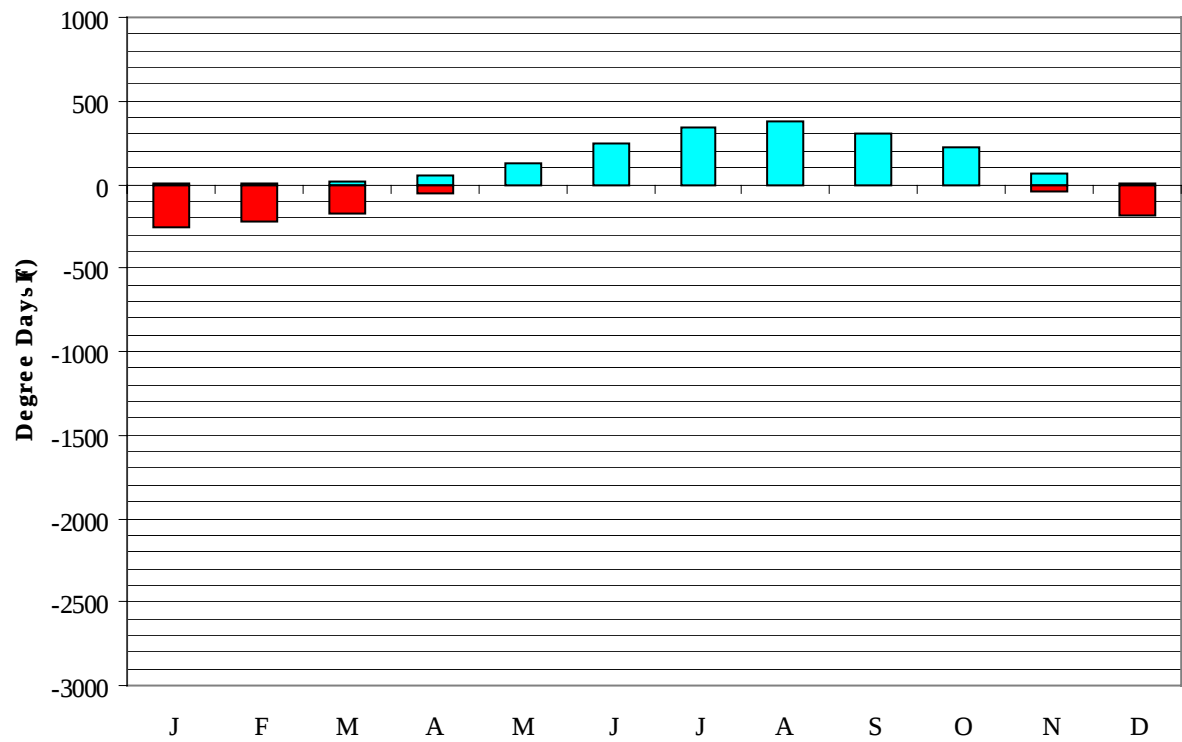
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WMO No. 401760

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	69.0	55.7	61.9	51.0	42.0	72.8	64.5	53.7	38.9
14-Jan	70.0	56.4	62.1	50.6	45.0	70.0	63.7	52.8	38.4
21-Jan	72.0	57.4	61.3	50.1	43.0	68.6	61.7	51.9	37.3
28-Jan	70.0	53.5	61.6	49.6	41.0	70.0	62.0	50.0	36.9
4-Feb	72.0	58.6	61.7	50.1	43.0	70.7	66.1	52.5	37.8
11-Feb	70.0	55.7	61.4	50.0	42.0	64.4	58.6	52.2	38.2
18-Feb	81.0	58.8	63.7	51.6	44.0	70.0	62.3	53.4	38.6
25-Feb	73.0	56.0	63.4	51.8	45.0	70.0	63.6	54.5	39.7
4-Mar	77.0	59.0	62.9	51.0	41.0	74.2	63.5	54.8	39.1
11-Mar	77.0	61.7	64.6	52.7	46.0	74.9	62.7	57.6	42.5
18-Mar	79.0	58.8	64.6	53.8	48.0	80.5	67.0	58.6	43.9
25-Mar	83.0	61.0	66.8	55.5	48.0	80.5	66.3	62.1	44.9
1-Apr	81.0	61.0	67.4	55.8	48.0	80.5	66.3	65.3	48.1
8-Apr	90.0	62.2	69.8	57.2	50.0	84.0	68.7	67.1	48.2
15-Apr	89.0	61.0	71.4	58.3	52.0	85.4	68.4	69.7	49.3
22-Apr	96.0	63.3	72.0	59.7	52.0	88.9	74.3	69.6	50.1
29-Apr	91.0	63.6	72.8	60.3	54.0	95.2	68.0	72.7	52.2
6-May	86.0	64.0	72.2	61.0	55.0	97.3	72.2	77.3	59.1
13-May	88.0	65.0	74.1	62.7	57.0	96.6	70.7	80.4	61.3
20-May	92.0	65.0	75.4	63.8	59.0	105.7	74.8	85.6	64.5
27-May	88.0	64.7	76.2	65.5	61.0	112.0	75.7	90.1	71.6
3-Jun	88.0	64.0	77.2	66.9	63.0	110.6	76.1	94.1	73.2
10-Jun	85.0	66.3	78.3	67.7	63.0	112.7	77.2	96.2	75.4
17-Jun	86.0	69.0	79.9	69.7	66.0	119.0	80.5	105.0	85.2
24-Jun	87.0	73.0	80.9	70.9	66.0	125.3	80.9	107.2	86.0
1-Jul	85.0	73.0	81.7	71.9	68.0	133.0	80.4	112.9	90.7
8-Jul	86.0	76.5	82.3	72.9	70.0	135.1	82.0	113.0	94.1
15-Jul	86.0	74.9	82.7	73.6	70.0	135.8	83.0	114.0	94.9
22-Jul	86.0	75.7	83.4	74.4	72.0	134.4	82.1	120.4	101.4
29-Jul	87.0	76.8	84.1	74.7	72.0	142.8	82.4	120.5	101.9
5-Aug	87.0	77.7	84.1	74.7	72.0	142.1	83.3	120.1	100.6
12-Aug	87.0	77.9	84.3	75.2	72.0	141.4	82.3	120.2	102.8
19-Aug	87.0	76.8	84.2	75.3	72.0	139.3	83.4	118.4	100.4
26-Aug	87.0	76.5	84.1	75.3	72.0	142.1	82.8	116.2	99.9
2-Sep	88.0	77.5	84.2	74.8	71.0	140.0	84.3	115.5	96.9
9-Sep	87.0	75.2	83.5	74.4	70.0	133.0	82.0	109.6	91.6
16-Sep	87.0	76.6	83.0	72.9	70.0	133.7	84.7	107.1	90.0
23-Sep	86.0	73.1	82.8	72.3	68.0	134.4	82.1	106.8	87.4
30-Sep	86.0	74.8	81.9	71.7	66.0	133.0	81.4	106.5	85.7
7-Oct	86.0	75.2	81.0	70.0	64.0	133.0	81.9	100.7	79.5
14-Oct	88.0	71.8	80.5	69.2	64.0	120.4	81.5	97.6	75.0
21-Oct	93.0	69.5	80.5	67.9	61.0	119.0	77.5	95.3	70.2
28-Oct	85.0	71.0	77.8	66.1	60.0	122.5	81.0	89.4	67.1
4-Nov	90.0	63.0	77.4	64.0	57.0	112.7	76.1	82.1	58.2
11-Nov	84.0	64.4	74.1	61.8	55.0	104.3	72.8	78.3	56.9
18-Nov	84.0	63.0	72.6	59.0	49.0	91.0	72.3	69.5	49.8
25-Nov	81.0	59.0	71.7	58.3	50.0	96.6	72.3	69.6	47.5
2-Dec	77.0	59.5	68.9	56.5	50.0	88.2	69.7	65.0	46.0
9-Dec	73.0	57.6	66.2	54.9	47.0	84.0	68.5	59.7	43.4
16-Dec	73.0	60.8	65.1	53.3	46.0	75.6	65.5	59.1	43.3
23-Dec	70.0	56.9	64.7	52.3	46.0	74.9	65.1	56.9	41.9
31-Dec	71.0	60.8	63.5	51.8	45.0	74.2	65.6	55.2	40.7

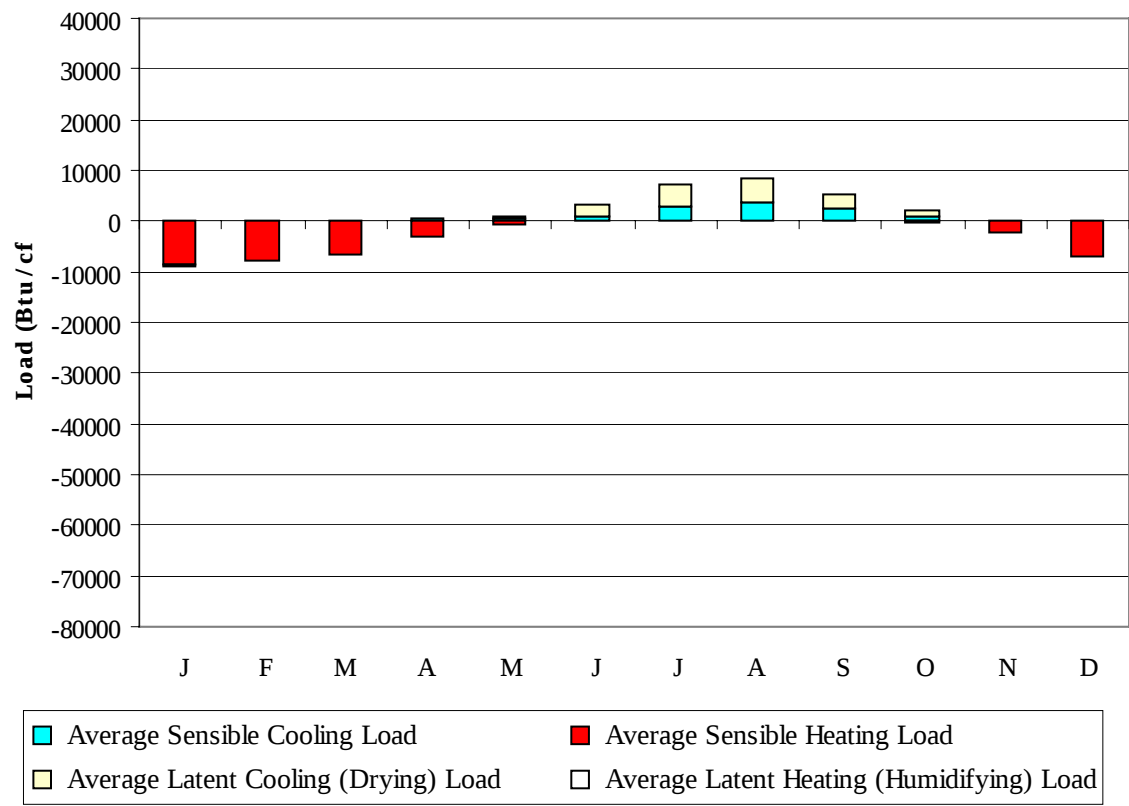
Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	2	257
FEB	3	219
MAR	13	169
APR	56	55
MAY	122	7
JUN	251	1
JUL	343	0
AUG	373	0
SEP	309	0
OCT	217	2
NOV	64	45
DEC	6	189
ANN	1759	944

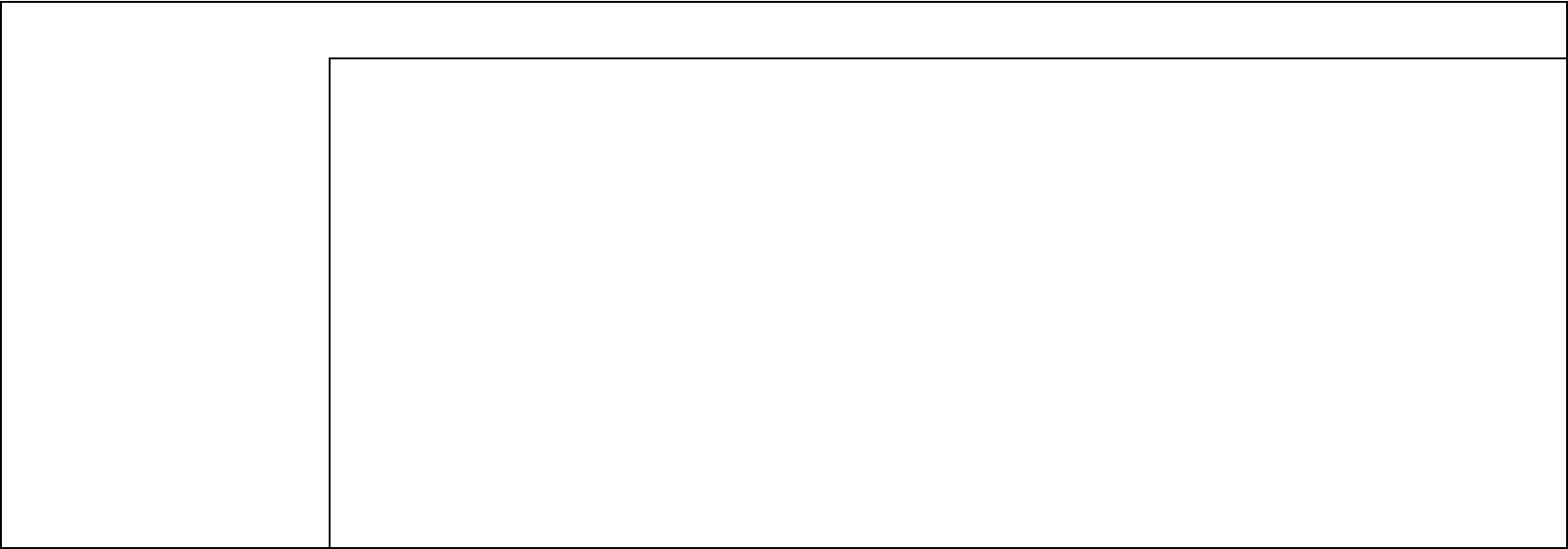
Average Ventilation and Infiltration Loads
(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)



	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	1	-8737	0	-62
FEB	7	-7619	1	-36
MAR	26	-6623	5	-36
APR	333	-3185	62	-15
MAY	337	-846	597	0
JUN	941	-48	2289	0
JUL	3003	0	4187	0
AUG	3863	0	4440	0
SEP	2458	-2	2696	0
OCT	916	-162	1317	-4
NOV	150	-2295	170	-22
DEC	3	-6956	6	-25
ANN	12038	-36473	15770	-200

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

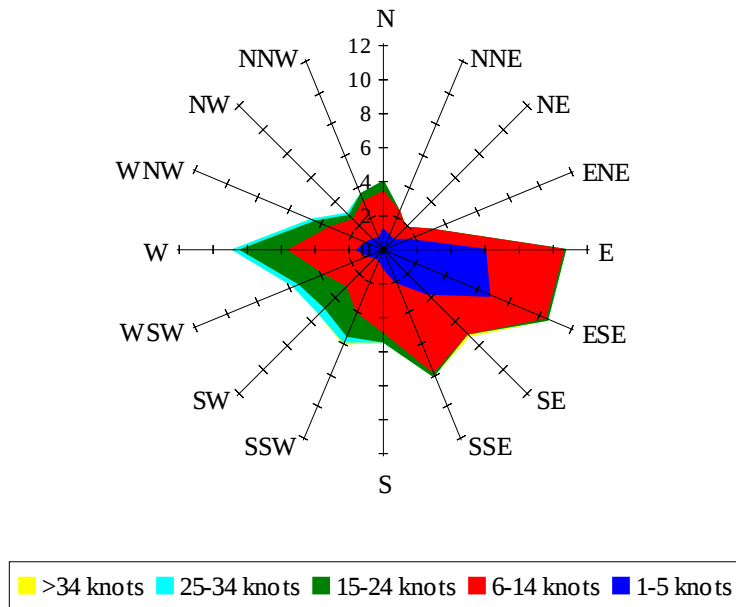
No Solar Radiation
Data Available



Average Annual Solar Heat and Illumination – Nearest Available Site

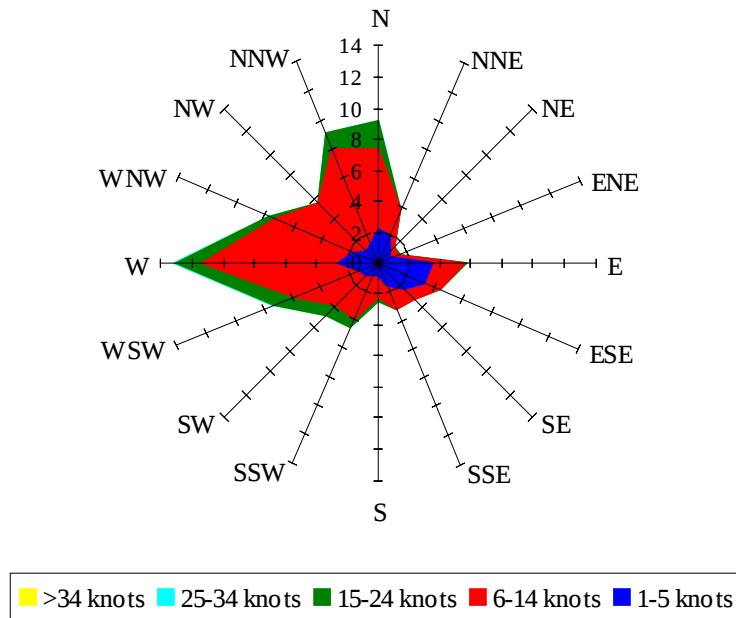
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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



Percent Calm = 10.85

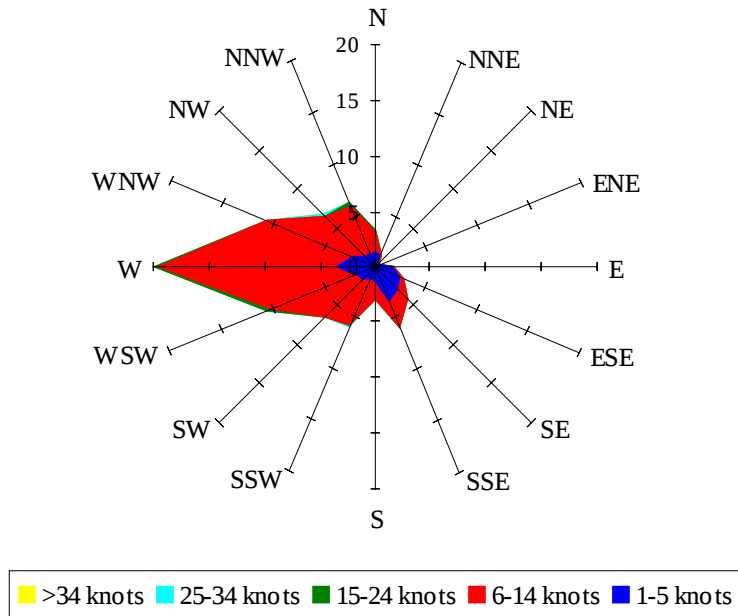
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 12.89

Wind Summary - June, July, and August

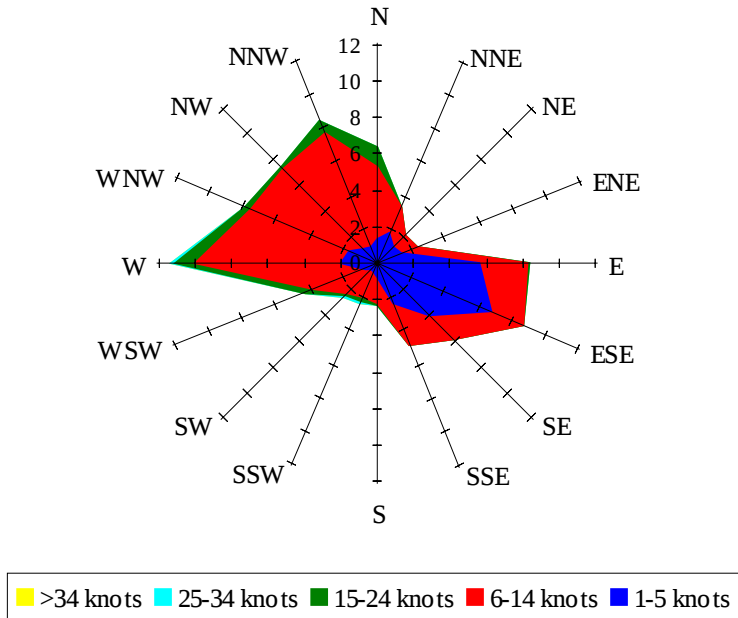
Labels of Percent Frequency on North Axis



Percent Calm = 11.36

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 11.62