

KINGSVILLE NAS TX

Latitude = 27.50 N

Longitude = 97.82 W

Period of Record = 1973 to 1996

WMO No. 722516

Elevation = 49 feet

Average Pressure = 29.90 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	102	76	97	9.9	SE
0.4% Occurrence	97	78	114	11.4	SE
1.0% Occurrence	96	78	116	11.9	SE
2.0% Occurrence	94	78	117	12.1	SE
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	41	38	28	7.2	N
99.0% Occurrence	36	32	21	7.5	N
99.6% Occurrence	32	29	18	8.7	N
Median of Extreme Lows	27	24	12	9.2	N
	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	84	92	158	12.5	SE
0.4% Occurrence	82	91	147	12.5	SE
1.0% Occurrence	81	90	142	12.0	SE
2.0% Occurrence	80	89	138	11.4	SE
	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	175	93	1.14	12.8	ESE
0.4% Occurrence	152	85	1.00	10.6	SE
1.0% Occurrence	148	84	0.97	10.9	SE
2.0% Occurrence	146	84	0.97	8.2	SE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		318	2634	3258	4924

Other Site Data

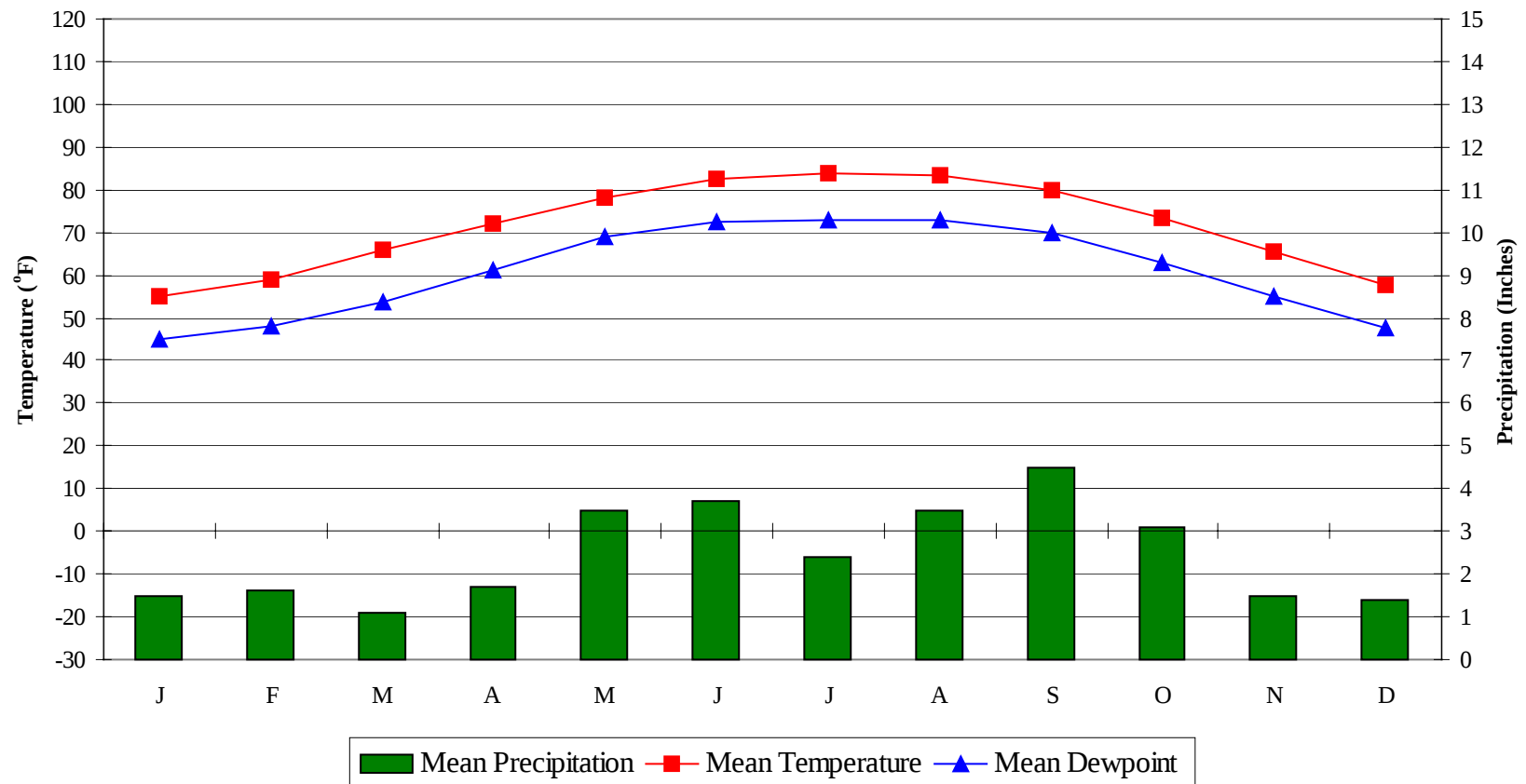
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
10	4.4	120	10.4 + 2.9
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
73.9	N/A	N/A	3

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

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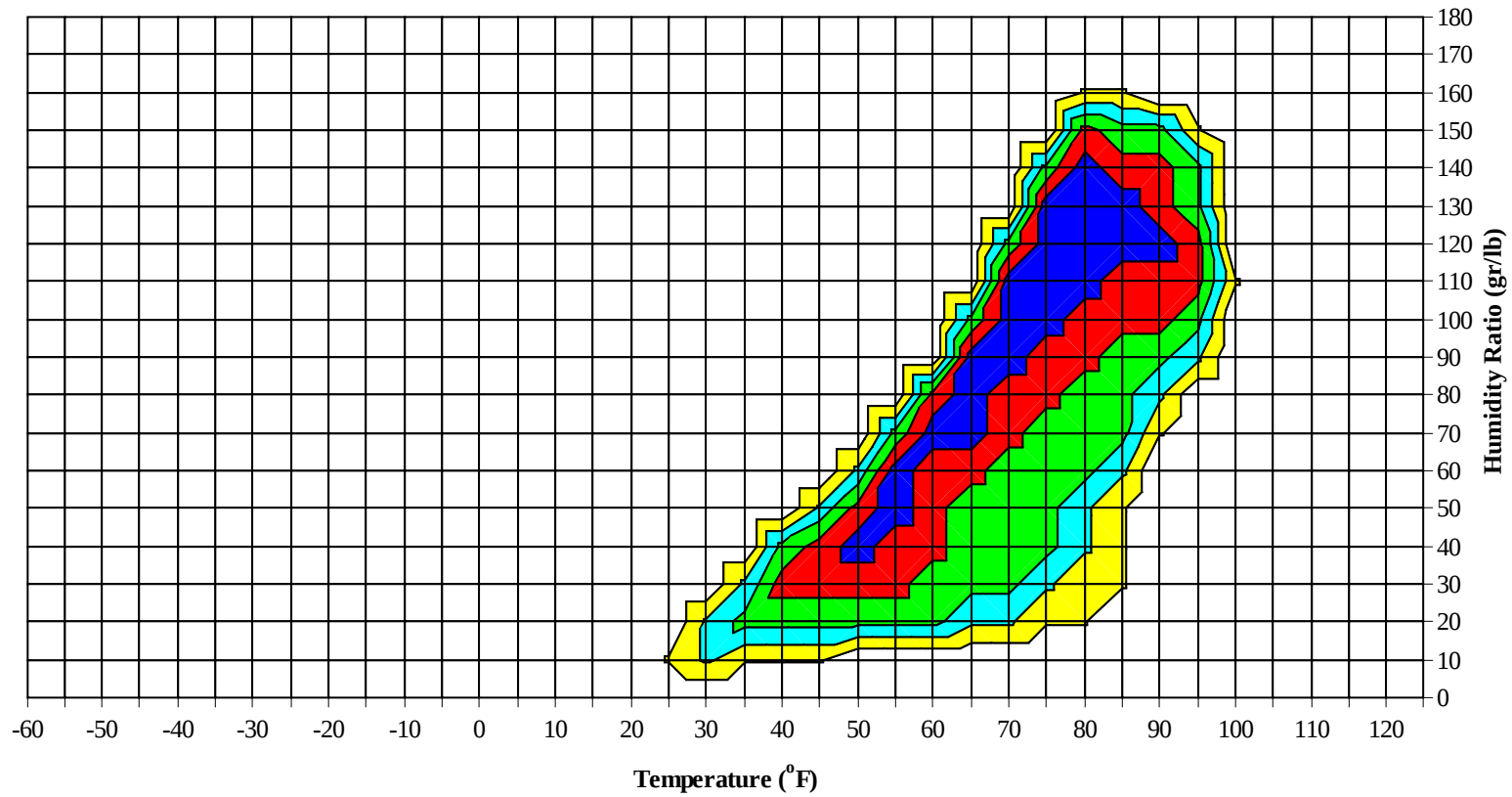
Average Annual Climate



KINGSVILLE NAS TX

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Long Term Psychrometric Summary

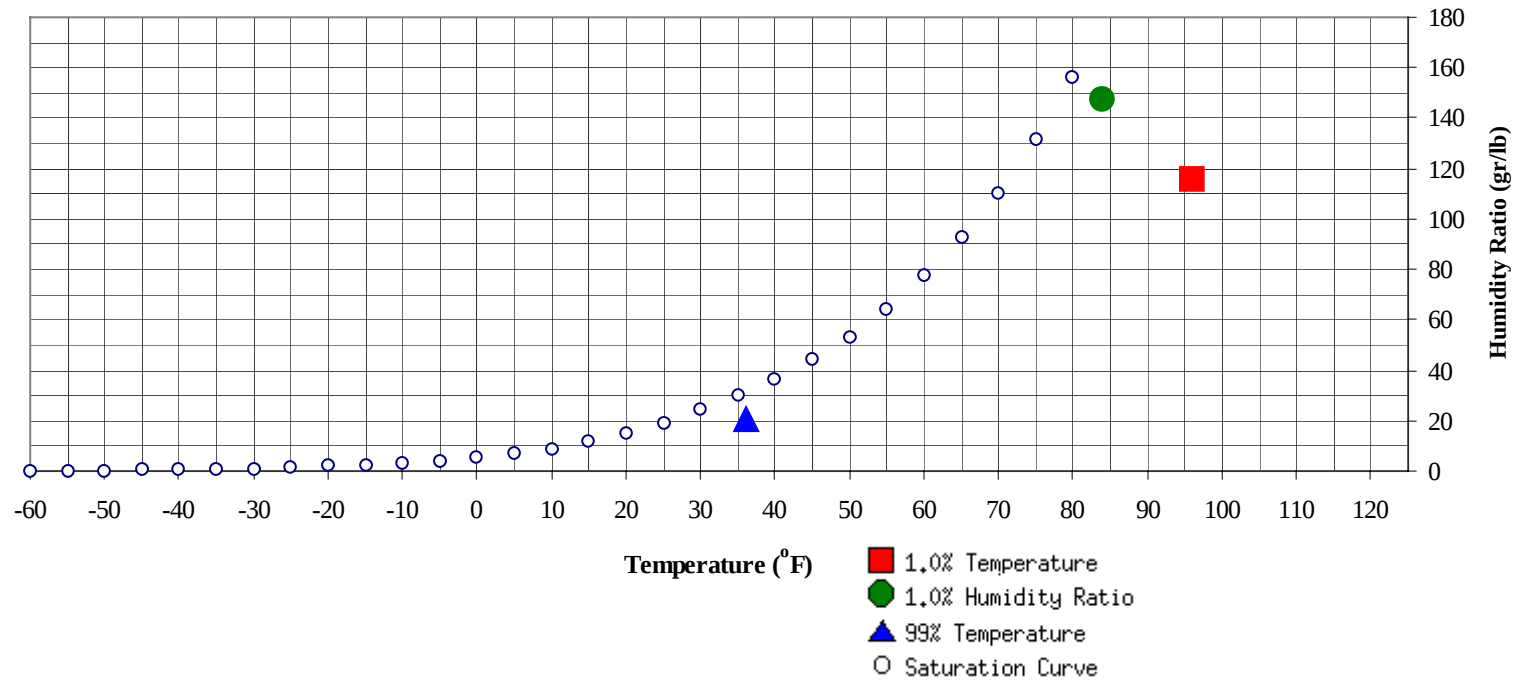


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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Psychrometric Summary of Peak Design Values



99% Dry Bulb	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
	36	21	11.9		147.7	84	79.6	78.1	43.3

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	96	115.5	78	41.2

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

Period of Record = 1973 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							0	0	0	65.7		0	0	0	65.6
90 / 94		0	0	0	72.0		2	0	2	66.7		1	0	1	67.1
85 / 89		2	0	2	69.5		4	1	5	67.5		3	1	4	69.6
80 / 84		9	1	10	67.5		17	3	20	66.5		14	3	17	68.2
75 / 79	0	22	5	27	65.7		31	9	40	65.0	0	39	8	47	68.0
70 / 74	6	32	18	56	63.8	7	35	24	66	63.5	2	55	22	79	66.1
65 / 69	17	32	32	81	61.3	26	34	42	102	61.3	41	56	62	159	65.6
60 / 64	26	32	39	97	57.1	35	28	40	103	57.4	54	33	58	145	62.2
55 / 59	33	34	39	106	52.5	35	28	40	103	57.4	40	18	41	99	56.7
50 / 54	36	26	36	98	47.6	30	22	34	86	52.3	38	12	26	76	51.9
45 / 49	43	25	35	103	43.3	40	21	31	92	47.7	35	9	16	60	47.7
40 / 44	43	19	26	88	39.0	35	13	19	67	43.3	21	4	7	32	43.0
35 / 39	25	9	10	44	34.0	26	10	13	49	38.9	11	2	4	17	38.0
30 / 34	12	5	6	23	29.6	13	4	6	23	34.1	4	1	1	6	33.0
25 / 29	4	0	1	5	24.6	8	2	3	13	29.6	2	0	0	2	28.1
20 / 24	1	0	0	1	20.0	2	1	1	4	25.8	0			0	23.6
15 / 19						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 2 of 5)

Period of Record = 1973 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	71.0					
100 / 104		0		0	71.5	0	0	0	0	76.2		1		1	77.2
95 / 99		3	0	3	74.7	6	0	6	6	78.5		19	1	20	78.8
90 / 94		9	1	10	72.0		33	3	36	77.5	0	96	15	111	77.9
85 / 89		35	6	41	71.8	1	87	21	109	75.5	4	81	46	131	76.6
80 / 84	0	71	19	90	70.5	19	74	61	154	74.2	52	29	97	178	76.1
75 / 79	24	60	58	142	69.6	94	32	98	224	72.9	126	10	66	202	74.1
70 / 74	76	31	74	181	67.7	81	11	47	139	69.2	47	4	13	64	70.0
65 / 69	58	16	45	119	62.9	34	3	13	50	63.8	8	1	2	11	63.8
60 / 64	36	8	21	65	57.6	14	1	4	19	58.5	2		0	2	58.5
55 / 59	24	4	10	38	52.7	5	0	1	6	54.3	0			0	54.5
50 / 54	15	2	5	22	47.8	1			1	49.6					
45 / 49	6	0	1	7	44.0										
40 / 44	2			2	37.8										
35 / 39	0			0	34.0										
30 / 34															
25 / 29															
20 / 24															
15 / 19															

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

Period of Record = 1973 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		2	0	2	78.7		3	0	3	77.6		0	0	0	75.5
95 / 99		43	1	44	77.8	0	47	2	49	78.0		12	0	12	77.9
90 / 94		117	29	146	77.5	0	102	23	125	77.4		73	7	80	77.2
85 / 89	6	62	53	121	76.9	4	64	50	118	77.1	1	74	33	108	75.9
80 / 84	58	16	115	189	76.4	48	22	111	181	76.4	23	47	77	147	75.4
75 / 79	152	5	47	204	74.3	162	9	58	229	74.5	111	22	84	217	73.6
70 / 74	31	2	3	36	70.8	33	1	3	37	70.9	64	8	26	98	69.2
65 / 69	1	0	0	1	67.2	1			1	65.6	22	2	9	33	62.4
60 / 64	0			0							13	1	4	18	57.3
55 / 59											5	1	1	7	53.3
50 / 54											1	0	0	1	50.2
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															

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

Period of Record = 1973 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		0		0	68.0										
95 / 99		1		1	75.6		0	0	0	65.3					
90 / 94		19	1	20	76.1		2	0	2	74.1		0		0	65.0
85 / 89		64	7	71	73.7		20	1	21	72.9		3	0	3	71.0
80 / 84	6	74	37	117	71.7	0	48	7	55	71.2		18	2	20	69.2
75 / 79	37	42	64	143	71.1	14	44	34	92	69.7	1	34	9	44	67.7
70 / 74	53	23	60	136	67.6	40	33	49	122	67.0	20	35	32	87	65.9
65 / 69	62	12	44	118	62.9	35	28	40	103	61.9	24	29	36	89	62.1
60 / 64	47	7	22	76	58.3	39	26	37	102	56.8	28	33	34	95	57.3
55 / 59	25	3	9	37	53.3	34	18	31	83	52.1	29	28	37	94	52.4
50 / 54	12	2	4	18	48.6	30	12	21	63	47.3	38	28	38	104	47.6
45 / 49	4	0	1	5	44.3	24	6	13	43	43.0	38	21	33	92	43.4
40 / 44	1			1	40.7	14	2	6	22	38.5	38	11	17	66	38.6
35 / 39	0			0	37.5	8	0	1	9	33.9	18	4	7	29	33.3
30 / 34						1	0	0	1	30.1	6	2	3	11	28.3
25 / 29								0	0		4	2	1	7	23.3
20 / 24											2	0	1	3	18.4
15 / 19											1	0		1	14.0

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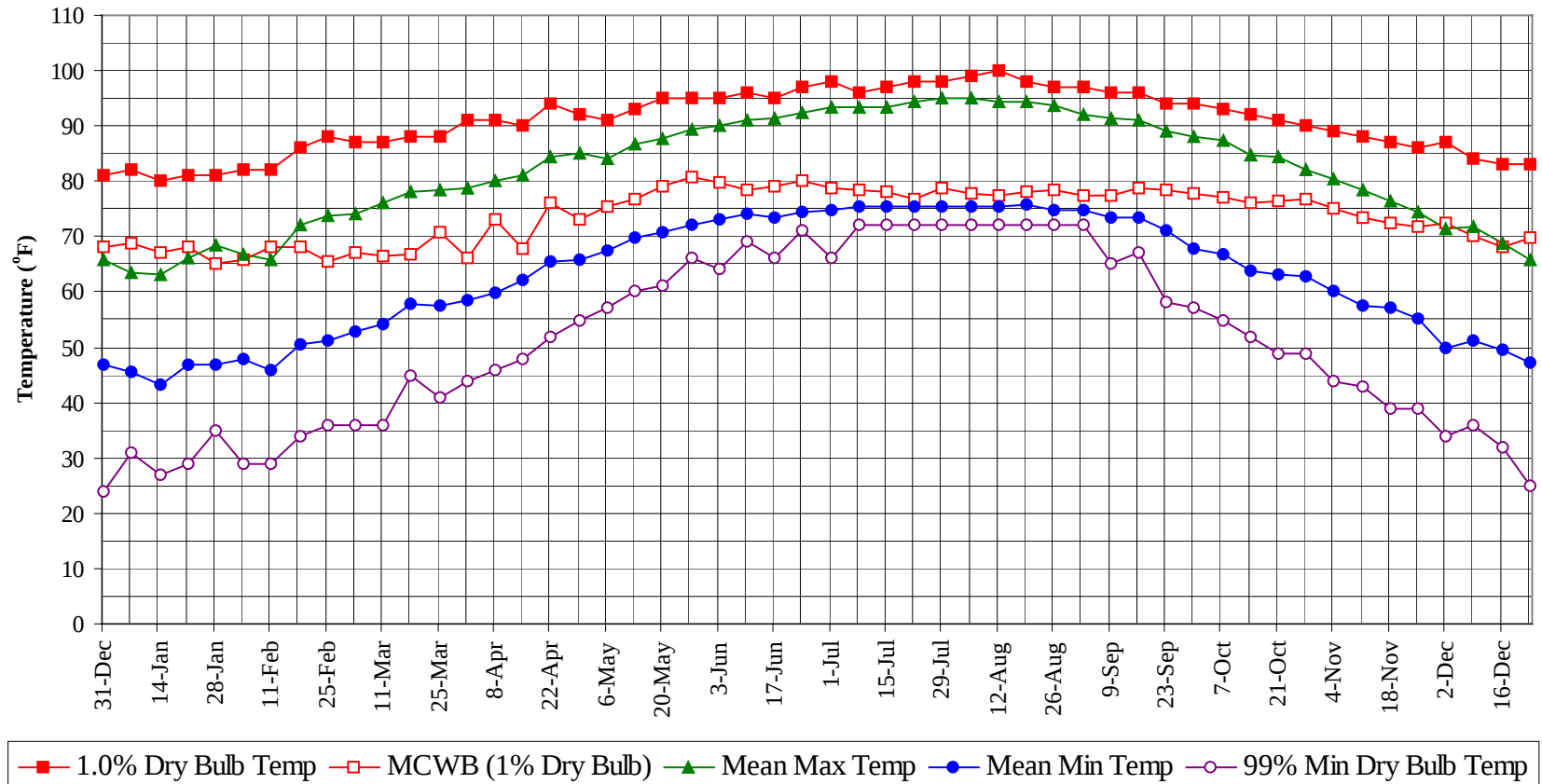
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

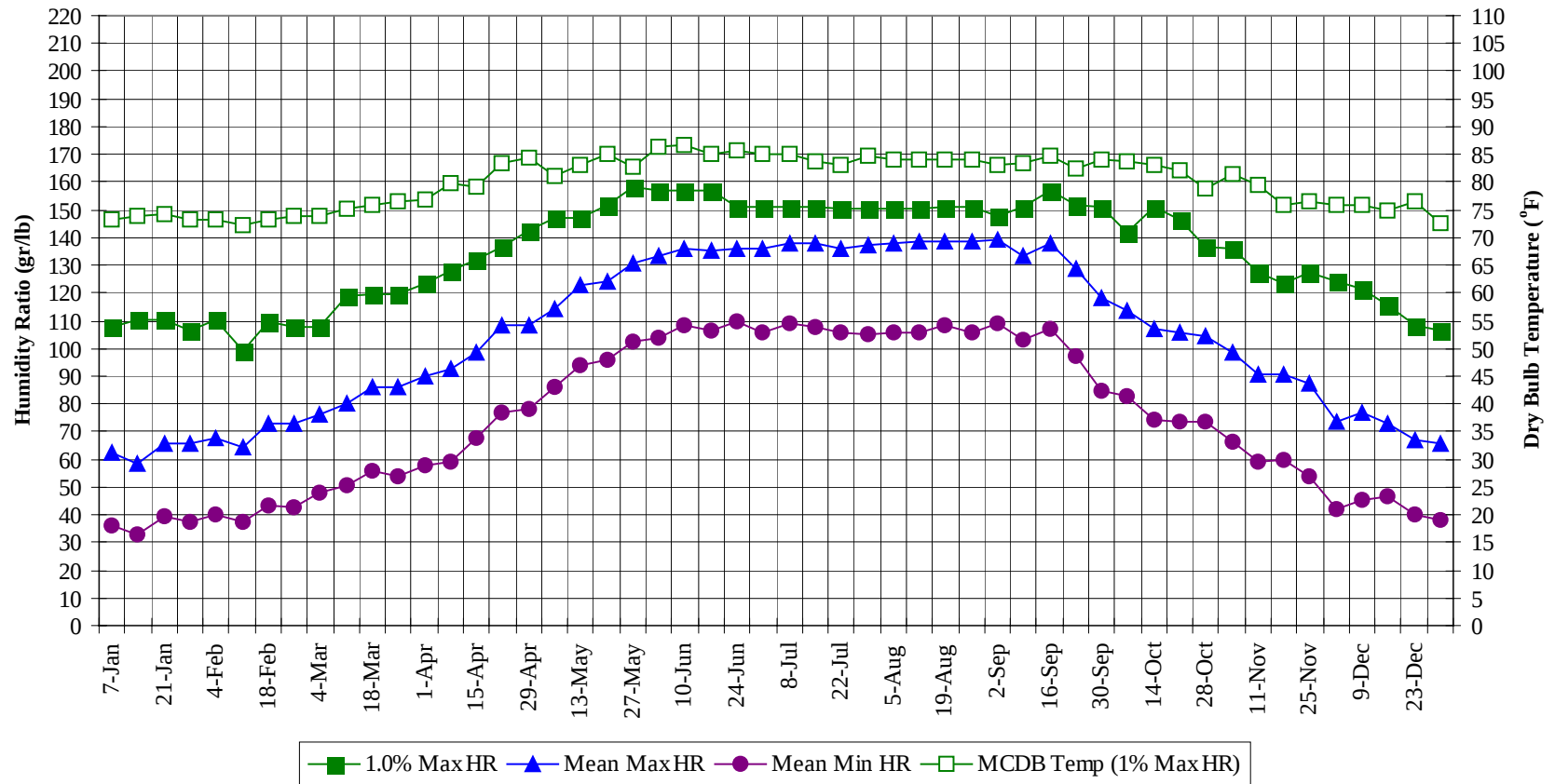
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		0		0	71.0
100 / 104		7	0	7	76.5
95 / 99	0	133	5	138	77.9
90 / 94	0	458	82	540	77.2
85 / 89	15	512	220	748	75.5
80 / 84	208	465	539	1212	74.1
75 / 79	726	366	554	1646	72.1
70 / 74	500	270	410	1180	67.4
65 / 69	343	190	321	854	62.3
60 / 64	281	154	241	676	57.3
55 / 59	222	121	187	530	52.4
50 / 54	208	98	149	455	47.7
45 / 49	170	69	108	347	43.3
40 / 44	134	43	65	242	38.8
35 / 39	68	18	24	110	33.8
30 / 34	28	10	12	50	29.3
25 / 29	11	3	3	17	24.3
20 / 24	3	1	1	5	19.0
15 / 19	1	0		1	14.0

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.

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



KINGSVILLE NAS TX

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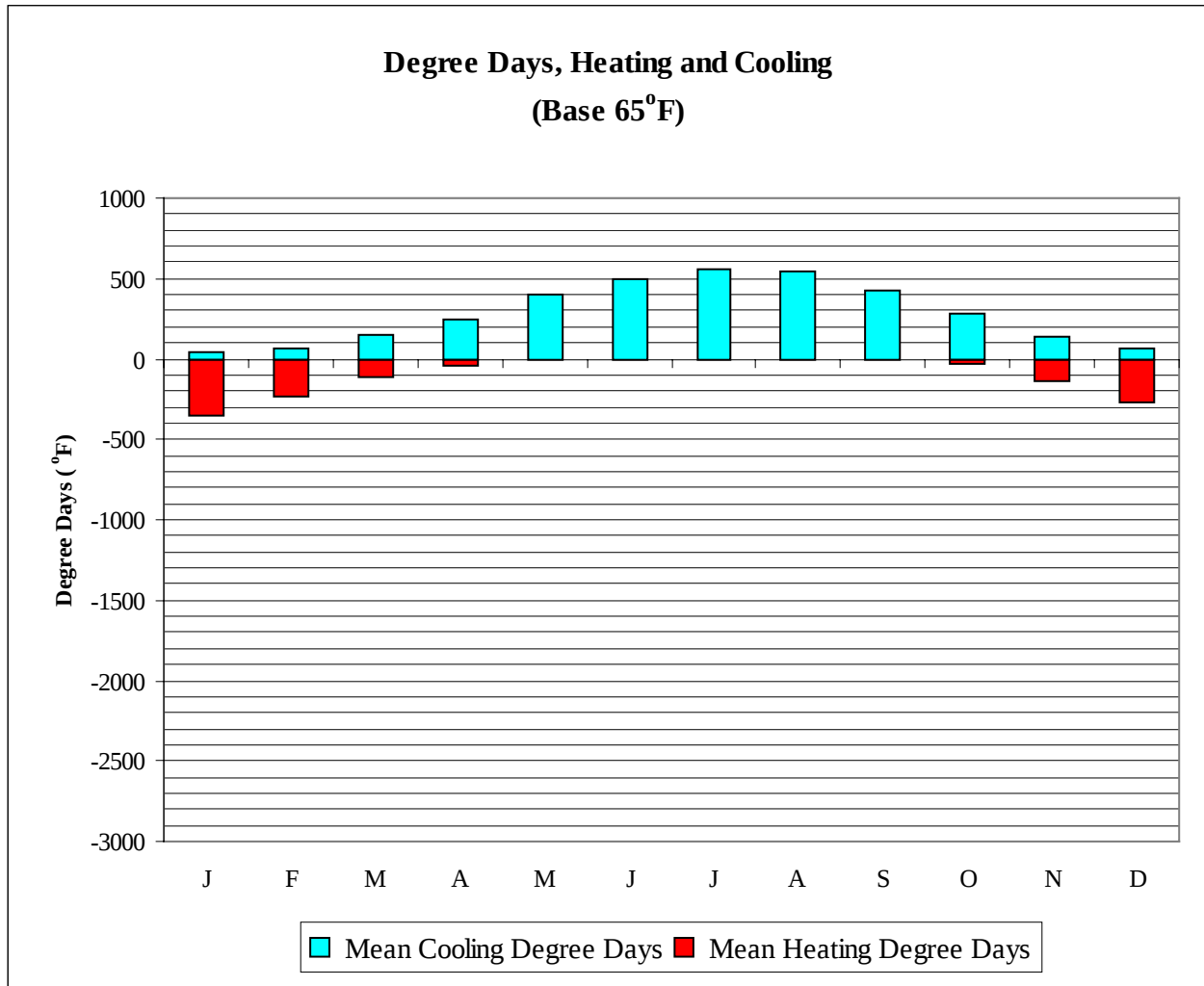
Long Term Dry Bulb Temperature and Humidity Summary

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	82.0	68.9	63.5	45.4	31.0	107.8	73.1	62.2	36.4
14-Jan	80.0	67.2	63.1	43.2	27.0	110.6	73.8	58.3	33.0
21-Jan	81.0	68.1	66.1	46.8	29.0	110.6	74.1	65.5	39.5
28-Jan	81.0	65.2	68.4	46.9	35.0	106.4	73.2	66.0	37.7
4-Feb	82.0	65.9	66.9	47.7	29.0	110.6	73.4	67.4	40.3
11-Feb	82.0	68.2	65.9	45.8	29.0	99.4	72.4	64.1	37.6
18-Feb	86.0	68.2	72.1	50.6	34.0	109.9	73.2	73.0	43.4
25-Feb	88.0	65.6	73.8	51.2	36.0	107.8	73.8	73.2	42.7
4-Mar	87.0	67.2	74.3	52.8	36.0	107.8	73.9	76.5	48.1
11-Mar	87.0	66.5	76.1	54.0	36.0	119.0	75.3	80.0	50.5
18-Mar	88.0	66.7	78.0	57.8	45.0	119.7	76.0	85.7	55.9
25-Mar	88.0	70.6	78.3	57.6	41.0	119.7	76.4	85.9	53.7
1-Apr	91.0	66.2	78.8	58.3	44.0	123.2	76.9	89.9	57.5
8-Apr	91.0	73.1	80.0	59.8	46.0	128.1	79.6	92.4	59.3
15-Apr	90.0	67.8	81.0	62.1	48.0	132.3	79.1	98.5	67.4
22-Apr	94.0	76.2	84.5	65.4	52.0	136.5	83.3	108.3	76.9
29-Apr	92.0	73.0	85.0	65.8	55.0	142.8	84.4	108.3	78.0
6-May	91.0	75.4	84.1	67.3	57.0	147.0	81.2	114.2	85.9
13-May	93.0	76.8	86.7	69.7	60.0	147.0	83.0	123.0	93.7
20-May	95.0	79.2	87.7	70.7	61.0	151.9	85.0	123.9	95.9
27-May	95.0	80.6	89.5	72.3	66.0	158.2	82.8	130.5	102.2
3-Jun	95.0	79.8	90.2	73.2	64.0	156.8	86.4	133.3	104.1
10-Jun	96.0	78.6	91.2	74.2	69.0	156.8	86.7	136.2	108.1
17-Jun	95.0	79.1	91.4	73.6	66.0	156.8	85.1	135.5	106.4
24-Jun	97.0	80.0	92.2	74.5	71.0	151.2	85.8	136.2	109.4
1-Jul	98.0	78.7	93.3	74.7	66.0	151.2	85.1	136.1	105.6
8-Jul	96.0	78.6	93.2	75.4	72.0	151.2	85.0	137.7	108.9
15-Jul	97.0	78.0	93.4	75.4	72.0	151.2	83.6	137.9	107.6
22-Jul	98.0	76.8	94.2	75.4	72.0	150.5	83.0	136.2	105.9
29-Jul	98.0	78.9	95.0	75.4	72.0	150.5	84.9	137.1	105.1
5-Aug	99.0	77.8	94.9	75.4	72.0	150.5	84.1	137.7	105.4
12-Aug	100.0	77.3	94.3	75.6	72.0	150.5	84.0	138.3	105.8
19-Aug	98.0	78.0	94.4	75.6	72.0	151.2	84.0	138.9	108.1
26-Aug	97.0	78.3	93.8	74.7	72.0	151.2	84.1	138.4	105.6
2-Sep	97.0	77.4	92.2	74.9	72.0	147.7	83.1	139.2	109.0
9-Sep	96.0	77.5	91.4	73.6	65.0	151.2	83.2	133.0	103.1
16-Sep	96.0	78.7	91.0	73.5	67.0	156.8	84.8	137.8	107.0
23-Sep	94.0	78.5	89.2	71.0	58.0	151.9	82.5	128.9	97.5
30-Sep	94.0	77.7	88.2	67.9	57.0	151.2	84.2	118.3	85.0
7-Oct	93.0	77.0	87.4	66.8	55.0	142.1	83.7	113.5	82.7
14-Oct	92.0	76.1	84.7	63.8	52.0	151.2	83.1	107.0	74.2
21-Oct	91.0	76.6	84.5	63.2	49.0	146.3	82.0	105.5	73.3
28-Oct	90.0	76.6	81.9	62.7	49.0	136.5	78.9	104.4	73.8
4-Nov	89.0	75.2	80.5	60.1	44.0	135.8	81.5	98.5	66.4
11-Nov	88.0	73.5	78.5	57.4	43.0	127.4	79.6	90.6	59.0
18-Nov	87.0	72.4	76.3	57.1	39.0	123.2	76.0	90.9	59.9
25-Nov	86.0	71.7	74.6	55.1	39.0	127.4	76.7	87.0	53.9
2-Dec	87.0	72.5	71.4	50.0	34.0	123.9	76.0	73.8	42.2
9-Dec	84.0	70.1	71.9	51.2	36.0	121.8	75.8	77.1	45.6
16-Dec	83.0	68.1	68.8	49.4	32.0	115.5	75.0	72.9	46.3
23-Dec	83.0	69.7	65.9	47.3	25.0	108.5	76.4	67.0	40.1
31-Dec	81.0	68.1	65.7	46.9	24.0	106.4	72.7	65.6	38.4

KINGSVILLE NAS

TX

WMO No. 722516



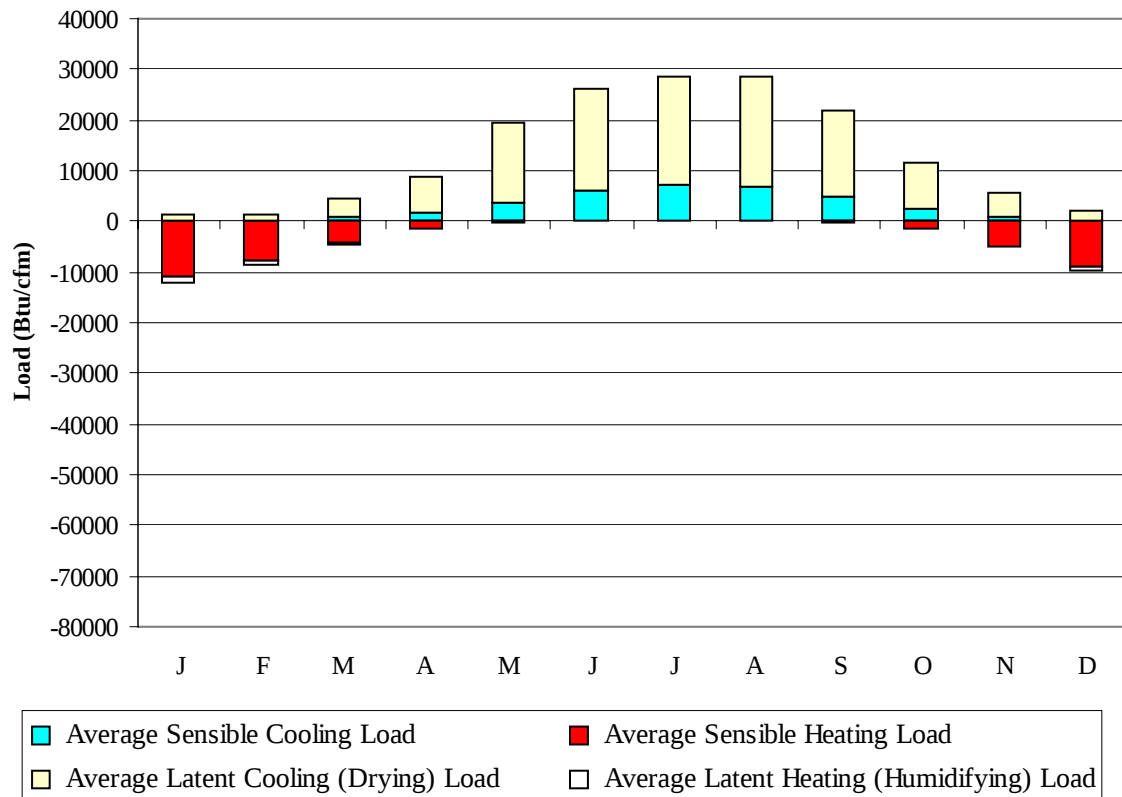
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	43	353
FEB	64	238
MAR	145	117
APR	240	37
MAY	398	4
JUN	498	0
JUL	560	0
AUG	549	0
SEP	431	4
OCT	279	35
NOV	143	140
DEC	64	275
ANN	3414	1203

KINGSVILLE NAS

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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 Load	Average Latent Heating Load
	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)
JAN	148	-11091	1001	-1015
FEB	316	-7742	1154	-720
MAR	803	-4129	3658	-394
APR	1701	-1530	7237	-98
MAY	3805	-234	15750	0
JUN	5963	-24	20043	0
JUL	7191	0	21287	0
AUG	6928	0	21428	0
SEP	4674	-222	17212	0
OCT	2413	-1479	9068	-26
NOV	870	-4813	4599	-373
DEC	247	-8750	1830	-896
ANN	35059	-40014	124267	-3522

Average Annual Solar Radiation – Nearest Available Site

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

City: CORPUS CHRISTI
 State: TX
 WBAN No: 12924
 Lat(N): 27.77
 Long(W): 97.5
 Elev(ft): 43

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.788
 Vert Gap: 0.632

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	880	1130	1400	1600	1730	1920	1980	1850	1600	1370	1040	840	1450
	Std Dev	70	99	124	135	131	136	137	97	119	91	102	72	29
	Minimum	750	960	1150	1390	1470	1710	1660	1600	1390	1110	840	690	1360
	Maximum	1030	1330	1700	1890	1940	2220	2200	2030	1830	1530	1270	1050	1490
	Diffuse	450	520	640	750	820	820	790	740	660	520	440	420	630
Clear Day	Global	1370	1670	2040	2340	2500	2530	2500	2360	2100	1740	1410	1270	1990
NORTH	Global	270	320	390	450	540	630	610	490	410	350	290	260	420
	Diffuse	270	320	390	440	480	510	500	460	410	350	290	260	390
Clear Day	Global	260	300	360	440	600	710	650	490	390	320	270	240	420
EAST	Global	500	640	730	790	860	960	1010	970	890	790	610	490	770
	Diffuse	320	380	460	530	570	600	610	580	520	430	350	300	470
Clear Day	Global	880	1030	1190	1300	1330	1320	1310	1280	1190	1050	900	820	1130
SOUTH	Global	990	1040	950	740	580	530	560	710	940	1180	1170	1020	870
	Diffuse	410	460	500	510	500	490	490	510	530	500	440	400	480
Clear Day	Global	1960	1830	1480	1000	660	540	580	830	1270	1680	1890	1950	1300
WEST	Global	550	690	840	930	970	1060	1100	1040	930	830	660	530	850
	Diffuse	330	390	470	540	580	610	600	580	520	440	350	310	480
Clear Day	Global	880	1030	1190	1300	1330	1320	1310	1280	1190	1050	900	820	1130

Average Annual Solar Heat and Illumination – Nearest Available Site

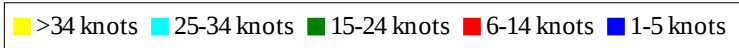
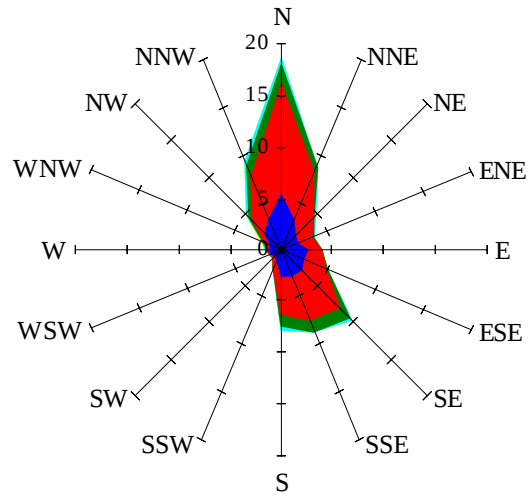
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	610	800	1010	1160	1260	1400	1450	1350	1160	980	730	580	1040
NORTH	Unshaded	190	220	270	310	350	400	380	320	280	240	200	180	280
	Shaded	170	200	240	270	310	340	340	290	260	220	180	160	250
EAST	Unshaded	350	450	520	560	610	680	710	690	640	560	430	340	540
	Shaded	300	390	440	470	520	580	610	590	550	490	380	300	470
SOUTH	Unshaded	720	730	620	450	360	340	350	420	590	800	850	750	580
	Shaded	680	600	390	310	310	310	310	320	340	590	780	720	470
WEST	Unshaded	390	490	600	660	690	750	780	750	660	590	460	370	600
	Shaded	340	430	510	560	580	640	660	630	570	510	400	320	510

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	35	77	94	82	43	30	73	99	100	75
	M.Cloudy	18	45	58	50	26	22	55	74	76	55
NORTH	M.Clear	9	15	16	15	11	22	21	17	17	21
	M.Cloudy	8	16	19	17	10	15	20	19	19	19
EAST	M.Clear	73	67	20	15	11	56	73	43	17	17
	M.Cloudy	19	33	20	17	10	30	51	35	19	17
SOUTH	M.Clear	27	57	69	61	33	10	17	24	24	17
	M.Cloudy	11	29	39	34	17	9	17	23	23	17
WEST	M.Clear	9	15	16	62	77	10	17	17	42	75
	M.Cloudy	8	16	19	35	32	9	17	19	35	51
M.Clear	(% hrs)	29	28	31	36	38	33	22	25	37	49
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	19	64	92	90	61	19	54	68	52	16
	M.Cloudy	13	46	65	67	45	10	30	38	30	10
NORTH	M.Clear	7	15	17	17	15	6	12	13	12	6
	M.Cloudy	6	16	18	19	15	5	12	14	12	5
EAST	M.Clear	48	74	41	17	15	50	52	13	12	6
	M.Cloudy	21	46	32	19	15	12	22	14	12	5
SOUTH	M.Clear	11	41	60	58	38	38	77	89	75	32
	M.Cloudy	7	28	41	43	27	10	29	37	29	10
WEST	M.Clear	7	15	17	45	75	6	12	15	54	44
	M.Cloudy	6	16	18	36	47	5	12	15	23	13
M.Clear	(% hrs)	50	33	29	36	45	27	29	29	32	36

Wind Summary - December, January, and February

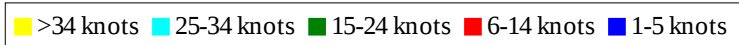
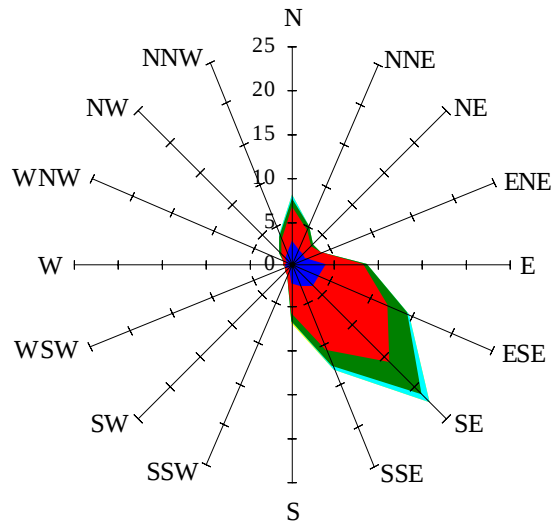
Labels of Percent Frequency on North Axis



Percent Calm = 8.99

Wind Summary - March, April, and May

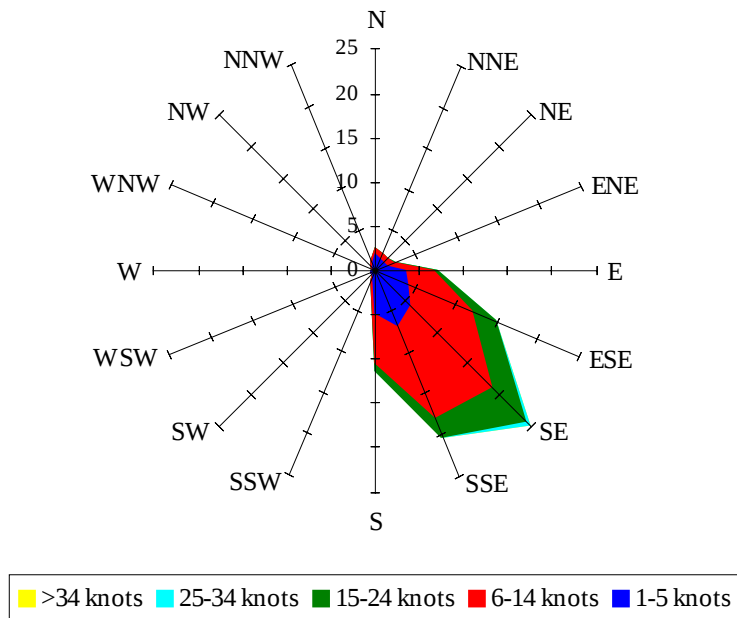
Labels of Percent Frequency on North Axis



Percent Calm = 5.90

Wind Summary - June, July, and August

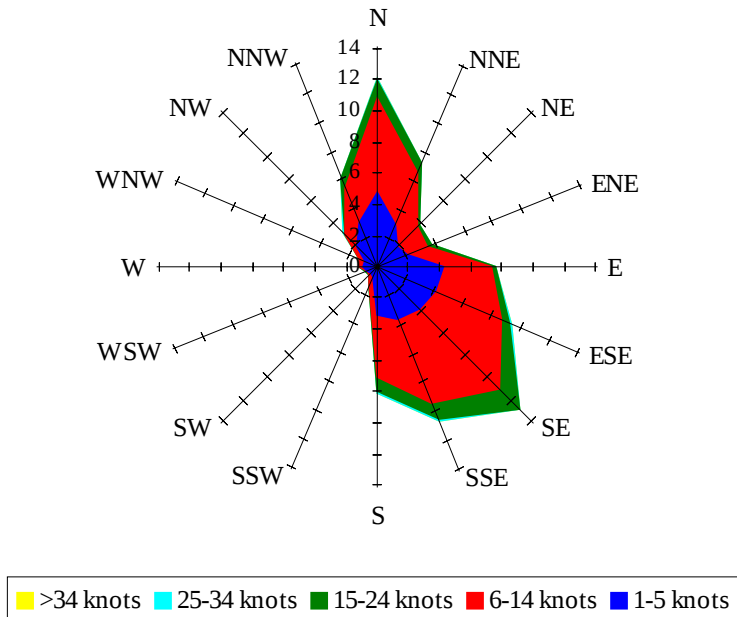
Labels of Percent Frequency on North Axis



Percent Calm = 8.80

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 10.78