

BROWNSVILLE TX

Latitude = 25.90 N

Longitude = 97.43 W

Period of Record = 1973 to 1996

WMO No. 722500

Elevation = 20 feet

Average Pressure = 29.93 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	78	110	13.9	SSE
0.4% Occurrence	95	78	114	15.7	SSE
1.0% Occurrence	94	78	116	15.4	SSE
2.0% Occurrence	93	78	118	15.4	SSE
Mean Daily Range	17	-	-	-	-
97.5% Occurrence	44	42	35	9.8	NNW
99.0% Occurrence	40	38	29	10.5	NNW
99.6% Occurrence	35	32	23	12.8	NNW
Median of Extreme Lows	32	30	20	14.6	NNW
	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	82	90	153	15.8	SSE
0.4% Occurrence	80	88	140	14.5	SSE
1.0% Occurrence	80	88	140	14.5	SSE
2.0% Occurrence	79	88	135	13.9	SSE
	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	172	88	1.14	10.9	S
0.4% Occurrence	150	83	1.00	8.9	SSE
1.0% Occurrence	146	83	0.97	10.4	SSE
2.0% Occurrence	141	83	0.94	11.5	SSE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		218	2820	3783	5605

Other Site Data

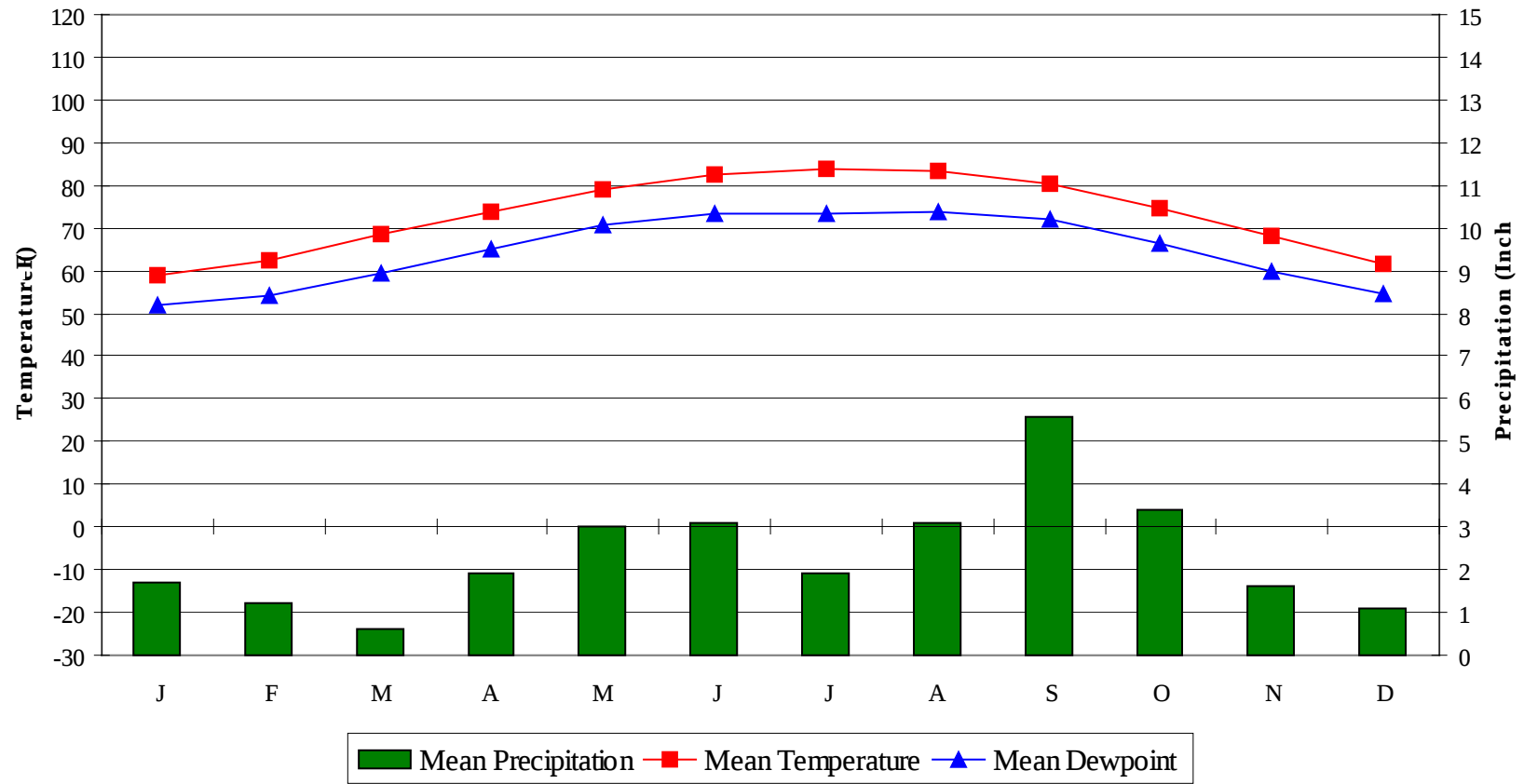
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
10	4.5	130	12.0 + 3.0
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
75.6	0	0	1

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

BROWNSVILLE TX

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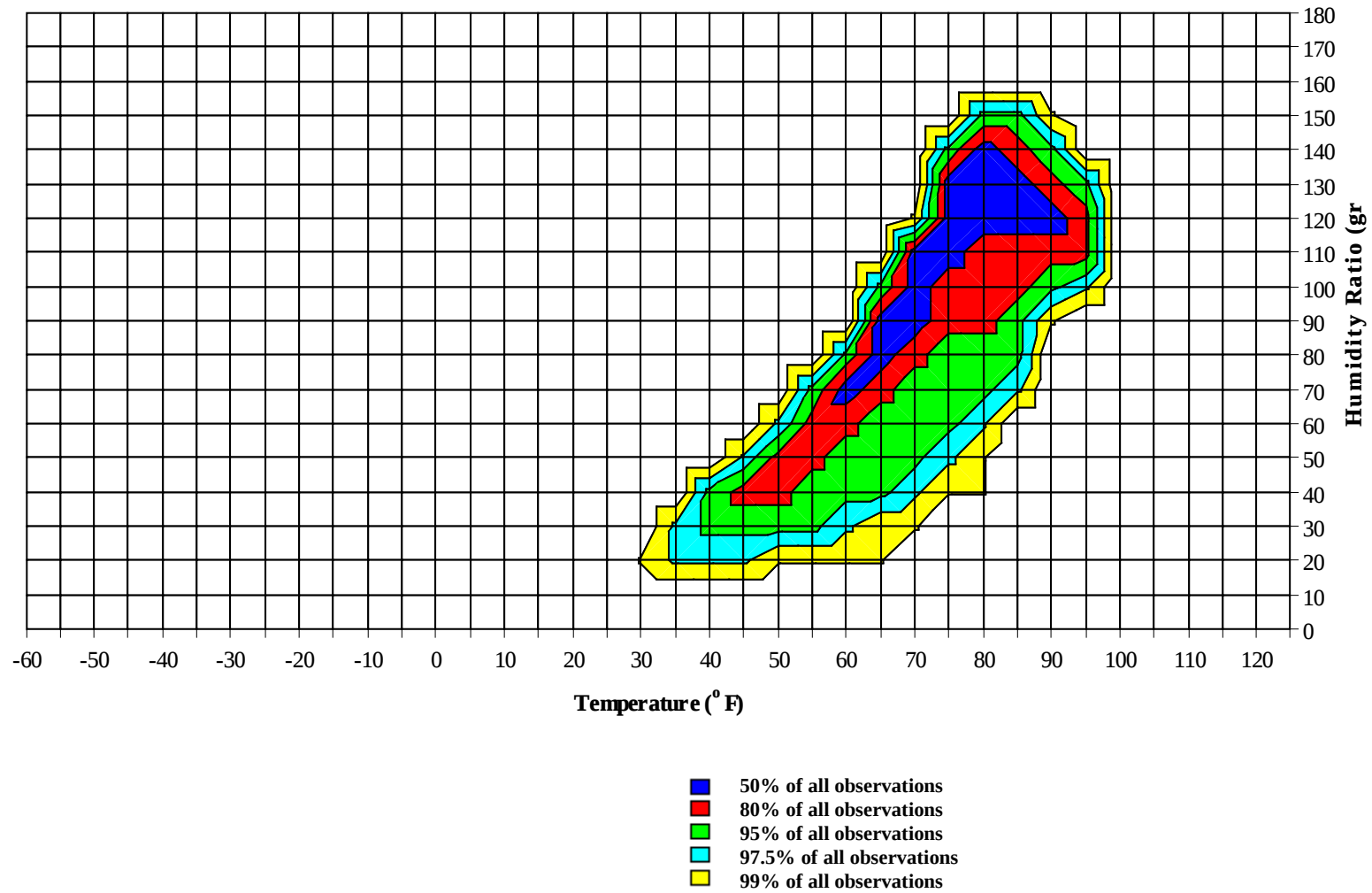
Average Annual Climate



BROWNSVILLE TX

WMO No. 722500

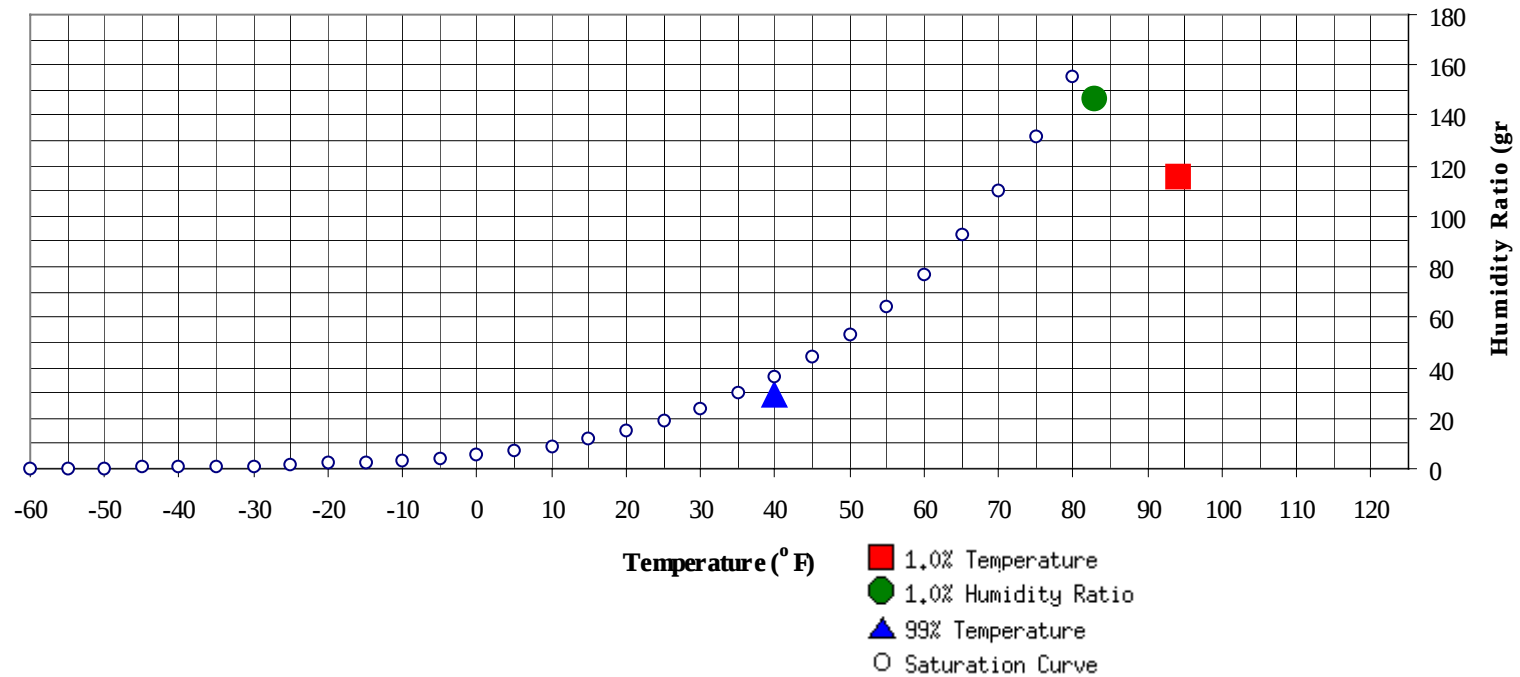
Long Term Psychrometric Summary



BROWNSVILLE TX

WMO No. 722500

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	40	29.4	14.1		146.3	82.8	79.3	78	42.8

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	94	116	77.7	40.8

BROWNSVILLE TX

WMO No. 722500

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												0		0	71.0
100 / 104												0		0	67.3
95 / 99												1	0	1	66.2
90 / 94		0		0	70.0		1		1	68.7		2	0	2	70.3
85 / 89		0	0	1	70.7		2	0	2	69.0		12	1	13	71.5
80 / 84		12	0	12	70.6		18	2	19	69.3	0	53	6	59	70.0
75 / 79	0	37	6	43	67.6	0	49	10	58	67.1	5	71	36	112	68.6
70 / 74	14	41	30	85	66.1	18	44	39	101	66.0	68	56	75	199	67.2
65 / 69	35	38	44	117	62.8	47	39	51	137	62.9	62	24	56	141	63.2
60 / 64	38	32	43	113	58.6	43	25	43	111	58.5	37	13	33	83	58.2
55 / 59	39	29	38	106	53.9	33	17	31	81	53.9	32	8	22	63	53.9
50 / 54	41	22	38	101	49.2	35	12	23	70	49.2	24	5	11	40	49.3
45 / 49	33	15	24	72	45.0	25	8	14	47	44.8	10	2	5	18	44.3
40 / 44	31	12	17	60	40.2	14	5	7	27	40.3	7	1	2	10	39.1
35 / 39	11	6	6	23	35.3	7	2	3	12	35.2	2	0	0	3	33.6
30 / 34	4	1	2	8	29.9	3	2	2	6	31.0	0		0	1	30.1
25 / 29	1	0	0	2	25.4	1			1	26.8					
20 / 24	0			0	22.0										
15 / 19															

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.

BROWNSVILLE TX

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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															
100 / 104		0		0	77.3		0		0	74.0		0		0	78.0
95 / 99		1		1	74.9		1	0	1	78.4		8	0	9	78.9
90 / 94		6	0	6	74.8	0	32	1	34	77.8		97	10	108	78.0
85 / 89		39	3	42	73.7	1	103	19	122	76.0	7	95	49	151	77.1
80 / 84	1	93	21	115	71.8	30	79	78	187	74.9	71	26	110	207	76.7
75 / 79	52	59	82	193	71.2	118	21	104	243	73.6	117	10	62	190	74.7
70 / 74	85	22	72	180	68.5	62	7	34	103	69.7	35	2	9	46	70.9
65 / 69	48	11	36	96	63.7	27	2	11	40	65.1	7	0	1	8	65.1
60 / 64	27	4	16	47	59.1	8	1	3	12	60.3	2		0	2	60.9
55 / 59	17	2	7	26	54.4	3	0	0	3	56.4					
50 / 54	9	1	2	12	49.8										
45 / 49	2	0	0	2	45.3										
40 / 44	0			0	38.2										
35 / 39															
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															
95 / 99		24	0	24	77.6		27		27	77.6		7	0	7	77.7
90 / 94		131	20	150	77.5		122	20	141	77.6	0	72	5	77	77.8
85 / 89	8	71	58	136	77.2	5	68	52	125	77.4	2	87	32	121	76.7
80 / 84	68	15	118	202	76.8	59	19	122	200	76.9	34	46	91	170	76.0
75 / 79	151	5	50	206	75.0	160	10	54	224	75.1	127	19	83	229	74.3
70 / 74	21	2	4	26	71.7	23	1	2	26	71.8	50	5	21	76	70.0
65 / 69	0	0		0	68.0	0	0		0	68.0	19	1	7	27	64.4
60 / 64											7	1	2	11	59.3
55 / 59											1	0	1	2	56.5
50 / 54															
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															

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BROWNSVILLE TX

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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															
95 / 99		0		0	78.5		0	0	0	72.5					
90 / 94		17	0	17	77.0		1	0	1	74.7		0		0	65.8
85 / 89	0	75	8	83	74.9		19	0	20	74.4		2	0	2	69.6
80 / 84	12	85	42	139	73.0	0	69	8	78	72.5		28	1	30	71.4
75 / 79	53	38	77	168	72.2	27	48	50	126	71.1	4	50	18	72	69.8
70 / 74	68	18	57	144	68.8	48	35	57	139	67.9	35	41	47	123	67.6
65 / 69	52	7	40	99	64.0	48	25	42	115	63.1	39	31	42	111	63.3
60 / 64	39	3	16	58	59.5	40	17	33	90	58.2	34	26	37	97	58.7
55 / 59	16	2	6	24	54.5	29	11	23	62	53.2	32	22	33	88	53.8
50 / 54	7	1	2	10	49.4	23	8	16	47	48.6	39	22	34	96	49.0
45 / 49	1	0	0	2	43.7	15	4	8	26	44.5	32	14	22	68	44.7
40 / 44	0		0	1	40.0	8	1	3	12	39.4	18	5	9	32	39.8
35 / 39	0		0	0	34.6	3	1	1	4	35.6	8	3	4	15	34.2
30 / 34						0		0	0	32.2	3	1	1	6	28.9
25 / 29											1	1	1	3	23.7
20 / 24											1	0	0	1	18.4
15 / 19											0	0	0	0	15.5

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BROWNSVILLE TX

WMO No. 722500

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**Period of Record = 1973 to 1996**

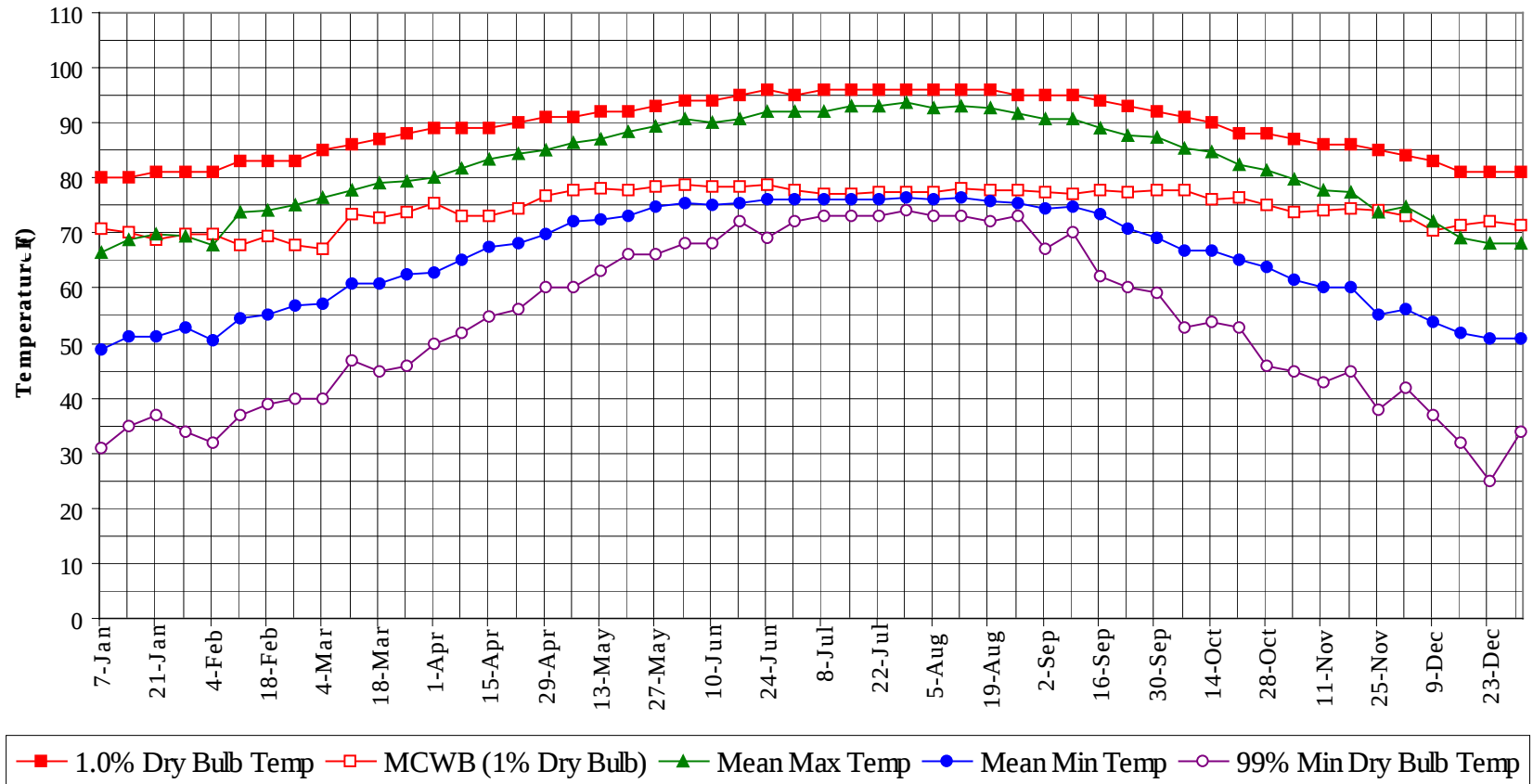
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		0		0	71.0
100 / 104		0		0	73.8
95 / 99		68	0	69	77.6
90 / 94	0	479	56	535	77.6
85 / 89	23	570	220	813	76.3
80 / 84	274	541	599	1413	74.9
75 / 79	812	416	631	1860	72.8
70 / 74	525	275	447	1247	68.2
65 / 69	383	180	330	893	63.4
60 / 64	277	124	227	628	58.7
55 / 59	203	92	162	457	53.9
50 / 54	178	70	129	378	49.1
45 / 49	119	44	74	237	44.8
40 / 44	79	25	39	143	40.0
35 / 39	32	12	14	59	35.0
30 / 34	12	4	5	21	30.0
25 / 29	3	1	1	5	24.6
20 / 24	1	0	0	1	18.6
15 / 19	0	0	0	0	15.5

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.

BROWNSVILLE TX

WMO No. 722500

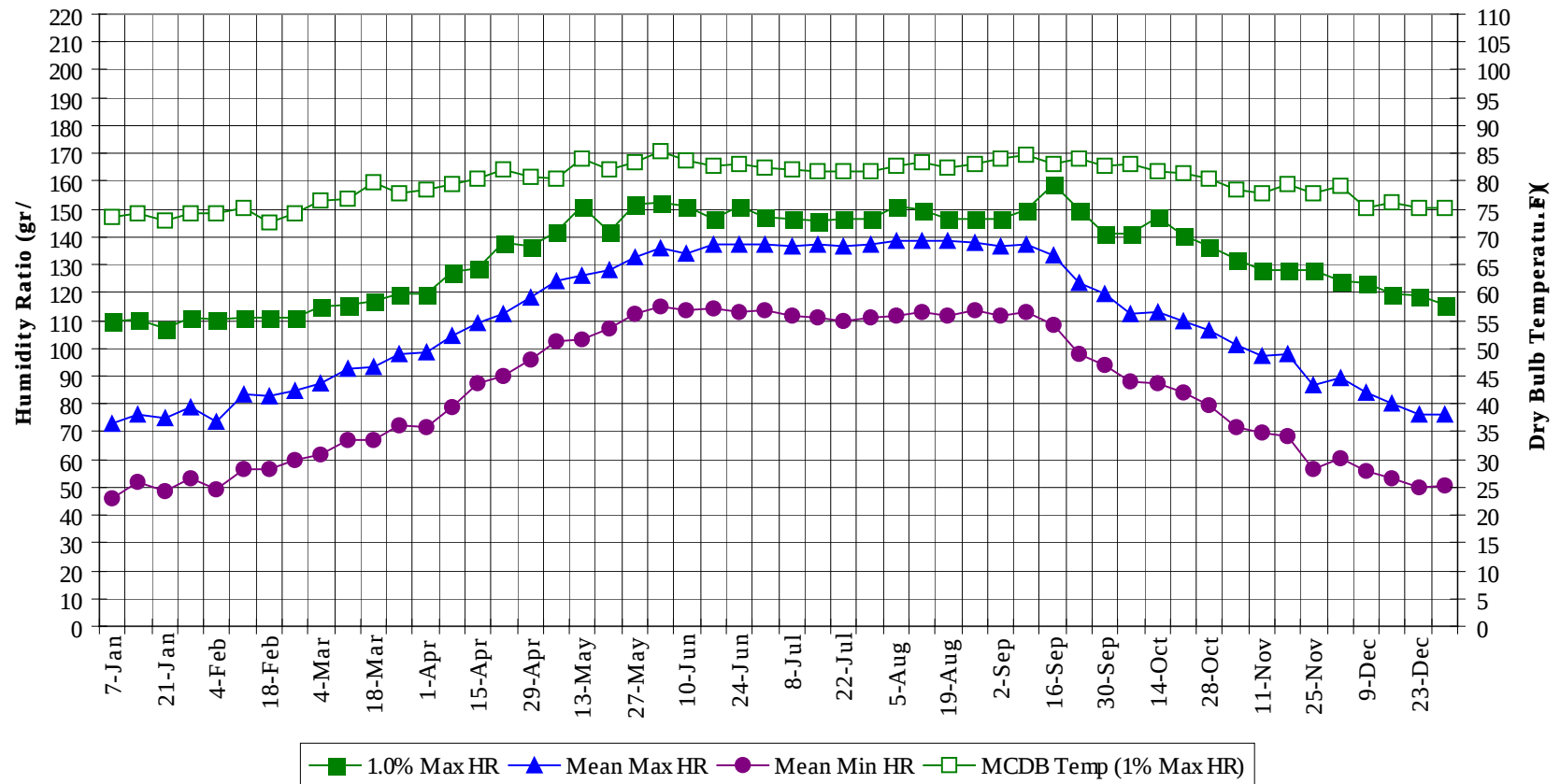
Annual Summary of Temperatures



BROWNSVILLE TX

WMO No. 722500

Long Term Humidity and Dry Bulb Temperature Summary



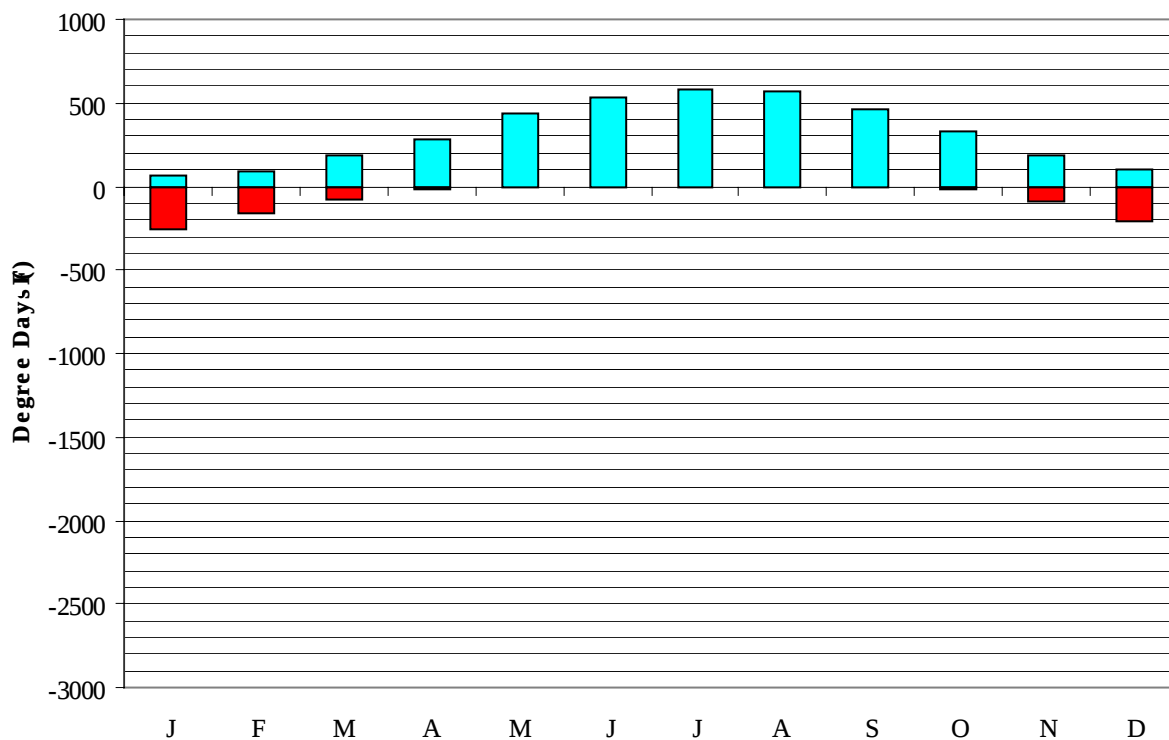
BROWNSVILLE TX**WMO No. 722500****Long Term Dry Bulb Temperature and Humidity Summary**

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	80.0	70.8	66.4	48.9	31.0	109.9	73.7	72.7	46.3
14-Jan	80.0	70.0	68.8	51.3	35.0	110.6	74.2	76.2	51.7
21-Jan	81.0	68.9	69.7	51.1	37.0	107.1	73.0	75.0	48.7
28-Jan	81.0	69.9	69.5	52.8	34.0	111.3	74.1	78.9	53.2
4-Feb	81.0	69.8	67.9	50.6	32.0	110.6	74.2	73.3	49.2
11-Feb	83.0	67.8	73.8	54.5	37.0	111.3	75.1	83.2	56.2
18-Feb	83.0	69.6	74.0	55.3	39.0	111.3	72.7	82.5	56.5
25-Feb	83.0	68.0	75.0	56.7	40.0	111.3	74.3	84.5	59.6
4-Mar	85.0	67.1	76.4	57.1	40.0	114.8	76.4	87.3	61.6
11-Mar	86.0	73.6	77.9	60.7	47.0	115.5	76.7	92.6	67.3
18-Mar	87.0	72.7	79.0	60.9	45.0	116.9	79.8	93.2	67.1
25-Mar	88.0	73.9	79.6	62.3	46.0	119.7	77.7	97.7	72.5
1-Apr	89.0	75.3	80.1	62.7	50.0	119.7	78.6	98.6	71.4
8-Apr	89.0	73.2	81.8	65.0	52.0	127.4	79.3	104.2	78.9
15-Apr	89.0	73.2	83.6	67.3	55.0	128.8	80.5	109.2	87.0
22-Apr	90.0	74.5	84.4	68.0	56.0	137.9	82.0	112.2	89.8
29-Apr	91.0	76.7	85.1	69.9	60.0	136.5	80.8	118.0	95.8
6-May	91.0	77.6	86.5	72.0	60.0	142.1	80.6	124.1	102.1
13-May	92.0	78.0	87.0	72.5	63.0	151.2	84.0	126.0	103.2
20-May	92.0	77.7	88.4	73.3	66.0	142.1	82.0	128.3	107.3
27-May	93.0	78.4	89.3	74.7	66.0	151.9	83.3	132.4	112.1
3-Jun	94.0	78.9	90.6	75.4	68.0	152.6	85.4	136.0	114.9
10-Jun	94.0	78.3	90.1	75.1	68.0	151.2	83.8	133.9	113.7
17-Jun	95.0	78.5	90.8	75.4	72.0	146.3	82.7	137.4	114.1
24-Jun	96.0	78.7	92.1	76.0	69.0	151.2	83.0	137.3	112.7
1-Jul	95.0	77.9	92.0	76.3	72.0	147.0	82.6	137.3	113.9
8-Jul	96.0	77.2	91.9	75.9	73.0	146.3	82.2	136.6	111.8
15-Jul	96.0	77.0	92.9	76.1	73.0	145.6	81.8	137.4	111.3
22-Jul	96.0	77.4	93.1	76.0	73.0	146.3	81.7	136.6	110.0
29-Jul	96.0	77.4	93.8	76.4	74.0	146.3	81.7	137.3	110.7
5-Aug	96.0	77.4	92.7	76.0	73.0	151.2	82.8	138.4	111.9
12-Aug	96.0	78.0	92.9	76.3	73.0	149.8	83.3	138.4	113.3
19-Aug	96.0	77.7	92.8	75.7	72.0	146.3	82.4	138.5	111.9
26-Aug	95.0	77.8	91.7	75.4	73.0	146.3	83.1	138.1	113.6
2-Sep	95.0	77.4	90.6	74.5	67.0	146.3	84.0	136.3	111.3
9-Sep	95.0	77.3	90.7	74.8	70.0	149.8	84.7	136.9	113.2
16-Sep	94.0	77.9	89.1	73.3	62.0	158.9	83.2	133.3	108.5
23-Sep	93.0	77.4	87.7	70.7	60.0	149.8	83.9	123.2	97.9
30-Sep	92.0	77.9	87.3	69.1	59.0	141.4	82.9	119.4	93.8
7-Oct	91.0	77.8	85.3	66.9	53.0	141.4	83.0	112.3	87.8
14-Oct	90.0	76.3	84.9	66.7	54.0	147.0	81.9	112.7	87.5
21-Oct	88.0	76.6	82.4	65.2	53.0	140.7	81.3	109.7	84.1
28-Oct	88.0	75.1	81.5	63.7	46.0	136.5	80.4	106.4	79.2
4-Nov	87.0	73.9	79.6	61.4	45.0	132.3	78.6	101.4	71.9
11-Nov	86.0	74.0	77.8	60.1	43.0	128.1	78.0	97.3	69.6
18-Nov	86.0	74.3	77.3	60.1	45.0	128.1	79.3	97.9	68.2
25-Nov	85.0	74.2	73.7	55.0	38.0	128.1	78.0	86.8	56.2
2-Dec	84.0	73.2	74.7	56.2	42.0	123.9	79.0	89.1	60.5
9-Dec	83.0	70.5	72.2	53.9	37.0	123.2	75.1	84.0	55.9
16-Dec	81.0	71.3	69.2	52.0	32.0	119.7	76.1	80.2	52.9
23-Dec	81.0	72.0	68.2	50.9	25.0	119.0	75.2	76.1	50.0
31-Dec	81.0	71.3	68.0	50.9	34.0	115.5	75.3	76.2	50.8

BROWNSVILLE TX

WMO No. 722500

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



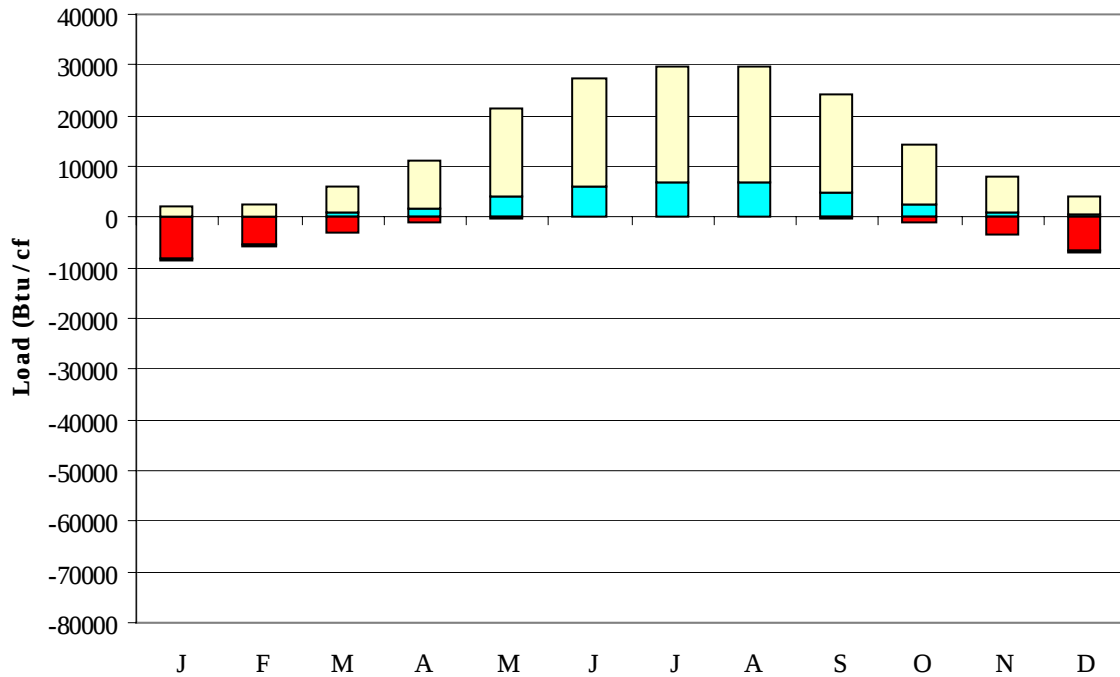
■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	63	254
FEB	84	162
MAR	181	76
APR	281	22
MAY	440	2
JUN	527	0
JUL	579	0
AUG	572	0
SEP	465	2
OCT	326	21
NOV	185	91
DEC	102	205
ANN	3803	835

BROWNSVILLE TX

WMO No. 722500

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	163	-8327	1993	-318
FEB	278	-5540	2360	-208
MAR	826	-2832	5352	-109
APR	1821	-955	9329	-10
MAY	4135	-134	17299	0
JUN	6063	-15	21140	0
JUL	7020	0	22560	0
AUG	6836	0	22732	0
SEP	4838	-118	19347	0
OCT	2695	-968	11609	-8
NOV	1050	-3292	6782	-104
DEC	361	-6771	3793	-328
ANN	36086	-28952	144296	-1085

Average Annual Solar Radiation – Nearest Available Site

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

City: BROWNSVILLE
 State: TX
 WBAN No: 12919
 Lat(N): 25.9
 Long(W): 97.43
 Elev(ft): 20

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.715
 Vert Gap: 0.612

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	910	1160	1450	1680	1830	2010	2050	1900	1640	1420	1090	870	1500
	Std Dev	107	134	131	129	146	103	146	123	152	105	107	90	56
	Minimum	690	880	1190	1450	1420	1830	1730	1670	1200	1130	880	720	1370
	Maximum	1120	1420	1770	1910	2070	2190	2320	2130	1860	1600	1270	1080	1590
	Diffuse	480	550	680	810	870	860	820	770	710	580	490	450	670
Clear Day	Global	1420	1710	2060	2350	2480	2510	2470	2350	2110	1780	1470	1330	2000
NORTH	Global	280	330	400	470	570	670	640	510	430	370	310	270	440
	Diffuse	280	330	400	460	500	530	520	470	420	370	310	270	410
Clear Day	Global	270	320	370	450	600	730	670	490	390	340	280	260	430
EAST	Global	520	650	770	850	920	1030	1060	1020	940	840	650	510	810
	Diffuse	330	400	490	560	600	630	620	600	540	460	370	320	490
Clear Day	Global	890	1030	1180	1280	1300	1290	1280	1250	1180	1060	910	840	1120
SOUTH	Global	960	1020	940	740	580	520	540	680	910	1160	1150	1000	850
	Diffuse	430	470	520	530	510	500	500	520	540	530	480	420	500
Clear Day	Global	1920	1780	1420	940	600	500	540	770	1210	1630	1860	1930	1250
WEST	Global	550	690	830	920	980	1070	1100	1030	910	830	650	520	840
	Diffuse	340	400	500	570	610	630	620	590	540	460	380	320	500
Clear Day	Global	890	1030	1180	1280	1300	1290	1280	1250	1180	1060	910	840	1120

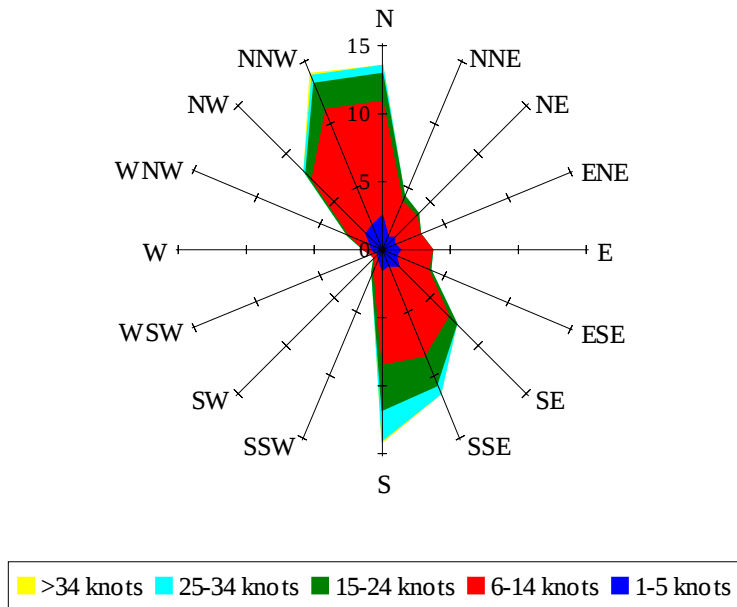
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	630	820	1040	1220	1330	1460	1500	1380	1180	1010	760	600	1080
NORTH	Unshaded	200	230	280	320	370	420	400	330	290	250	210	190	290
	Shaded	170	210	250	290	330	370	350	300	270	230	190	170	260
EAST	Unshaded	360	460	540	600	650	730	750	730	670	590	460	350	570
	Shaded	320	400	470	520	560	630	650	630	590	530	410	310	500
SOUTH	Unshaded	700	710	610	450	370	350	350	400	560	790	830	730	570
	Shaded	660	590	400	330	320	320	320	330	350	590	760	700	470
WEST	Unshaded	380	480	590	650	690	760	780	740	650	580	460	370	590
	Shaded	340	430	510	560	590	660	670	640	570	520	400	320	520

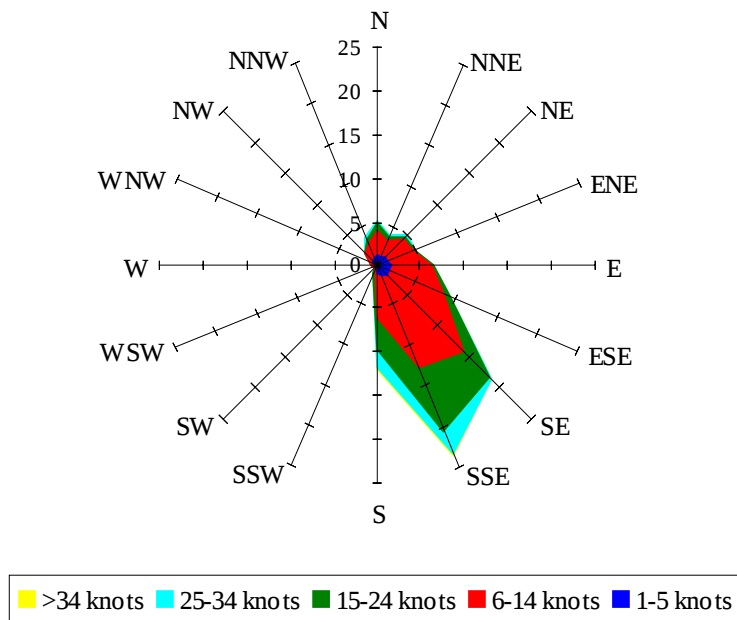
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	36	78	97	84	43	29	71	101	102	76
	M.Cloudy	20	48	62	52	27	23	58	79	79	58
NORTH	M.Clear	10	16	17	16	11	22	23	18	18	24
	M.Cloudy	9	17	19	17	11	16	21	19	19	22
EAST	M.Clear	70	68	21	16	11	53	71	43	18	17
	M.Cloudy	23	36	21	17	11	32	54	36	19	18
SOUTH	M.Clear	26	55	68	59	31	10	17	22	22	17
	M.Cloudy	12	31	41	34	17	9	18	22	22	18
WEST	M.Clear	10	16	17	63	74	10	17	18	43	75
	M.Cloudy	9	17	19	36	32	9	18	19	37	53
M.Clear	(% hrs)	27	28	30	32	34	49	34	29	38	48
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	20	65	92	91	61	20	57	70	54	17
	M.Cloudy	13	49	69	68	44	11	32	41	32	10
NORTH	M.Clear	8	16	18	18	15	7	13	14	12	6
	M.Cloudy	6	16	19	19	15	5	12	15	12	5
EAST	M.Clear	47	73	41	18	15	48	52	14	12	6
	M.Cloudy	21	49	34	19	15	12	24	15	12	5
SOUTH	M.Clear	11	39	56	55	36	36	75	87	72	31
	M.Cloudy	7	28	42	41	25	10	30	39	31	10
WEST	M.Clear	8	16	18	46	74	7	13	16	53	42
	M.Cloudy	6	16	19	36	44	5	12	16	25	13
M.Clear	(% hrs)	59	41	28	33	44	31	26	26	28	33

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



Percent Calm = 5.88

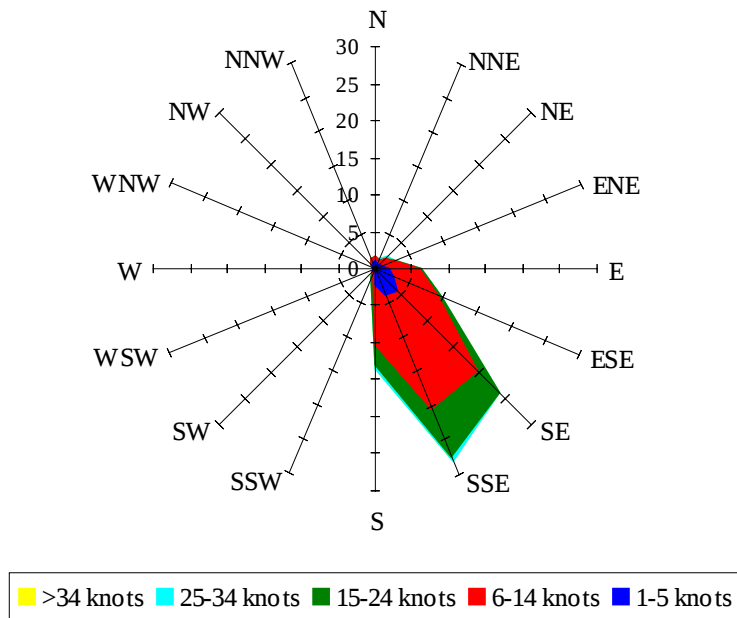
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 3.89

Wind Summary - June, July, and August

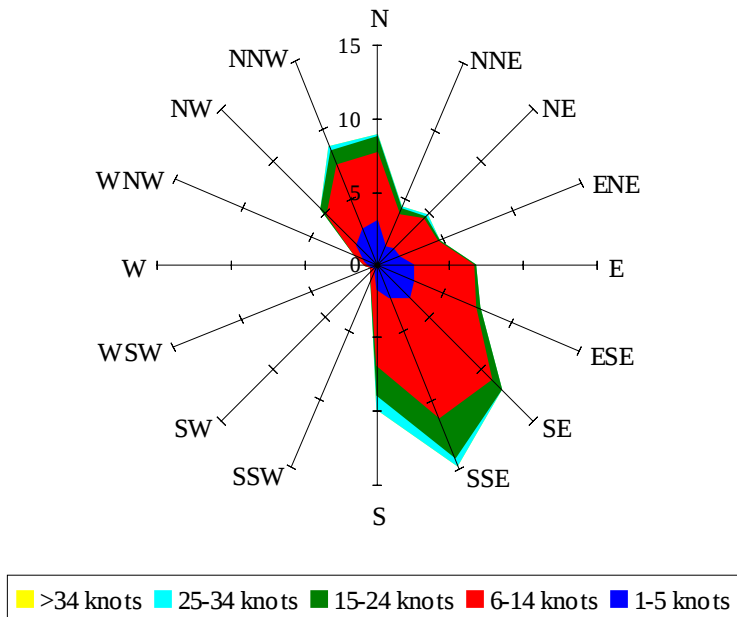
Labels of Percent Frequency on North Axis



Percent Calm = 6.60

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 8.16