

GALVESTON/SCHOLES TX

Latitude = 29.30 N

WMO No. 722422

Longitude = 94.80 W

Elevation = 52 feet

Period of Record = 1973 to 1991

Average Pressure = 29.99 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	94	79	123	8.6	S
0.4% Occurrence	91	79	127	10.7	S
1.0% Occurrence	90	78	128	10.9	S
2.0% Occurrence	89	78	128	11.0	S
Mean Daily Range	11	-	-	-	-
97.5% Occurrence	40	37	26	13.7	N
99.0% Occurrence	35	32	21	15.1	N
99.6% Occurrence	32	29	19	15.5	N
Median of Extreme Lows	26	23	12	18.9	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	82	89	148	11.5	S
0.4% Occurrence	81	88	143	11.4	S
1.0% Occurrence	80	87	138	11.2	S
2.0% Occurrence	79	86	135	10.9	S
	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	158	88	1.04	15.0	SSE
0.4% Occurrence	146	85	0.97	11.2	S
1.0% Occurrence	146	85	0.97	10.9	S
2.0% Occurrence	141	84	0.94	10.7	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		8	2355	2796	4182

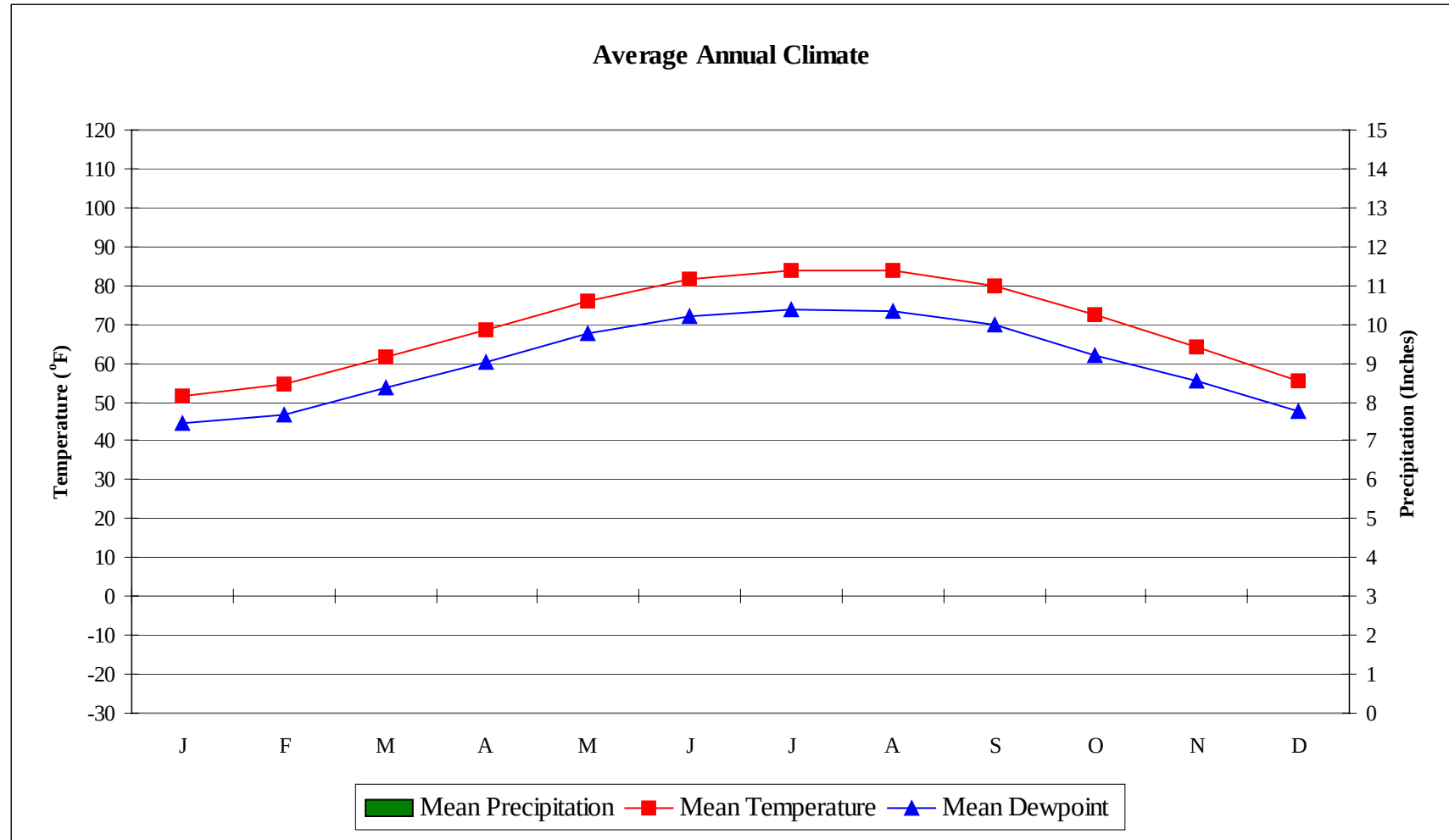
Other Site Data

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	N/A	N/A	9.0 + 2.3
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 (#)
71.8	N/A	N/A	3

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

GALVESTON/SCHOLES TX

WMO No. 722422

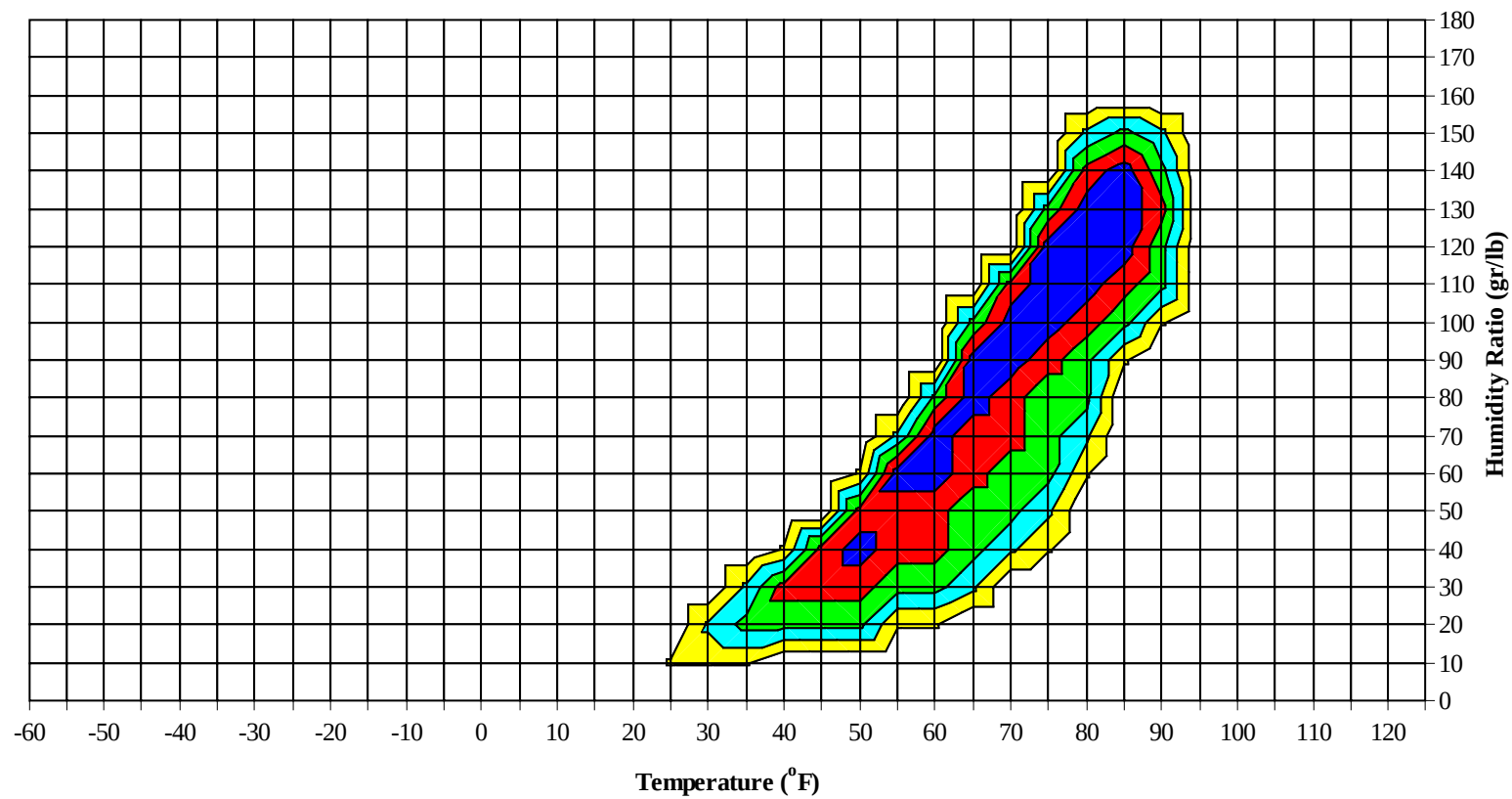


No Precipitation Data Available

GALVESTON/SCHOLES TX

WMO No. 722422

Long Term Psychrometric Summary

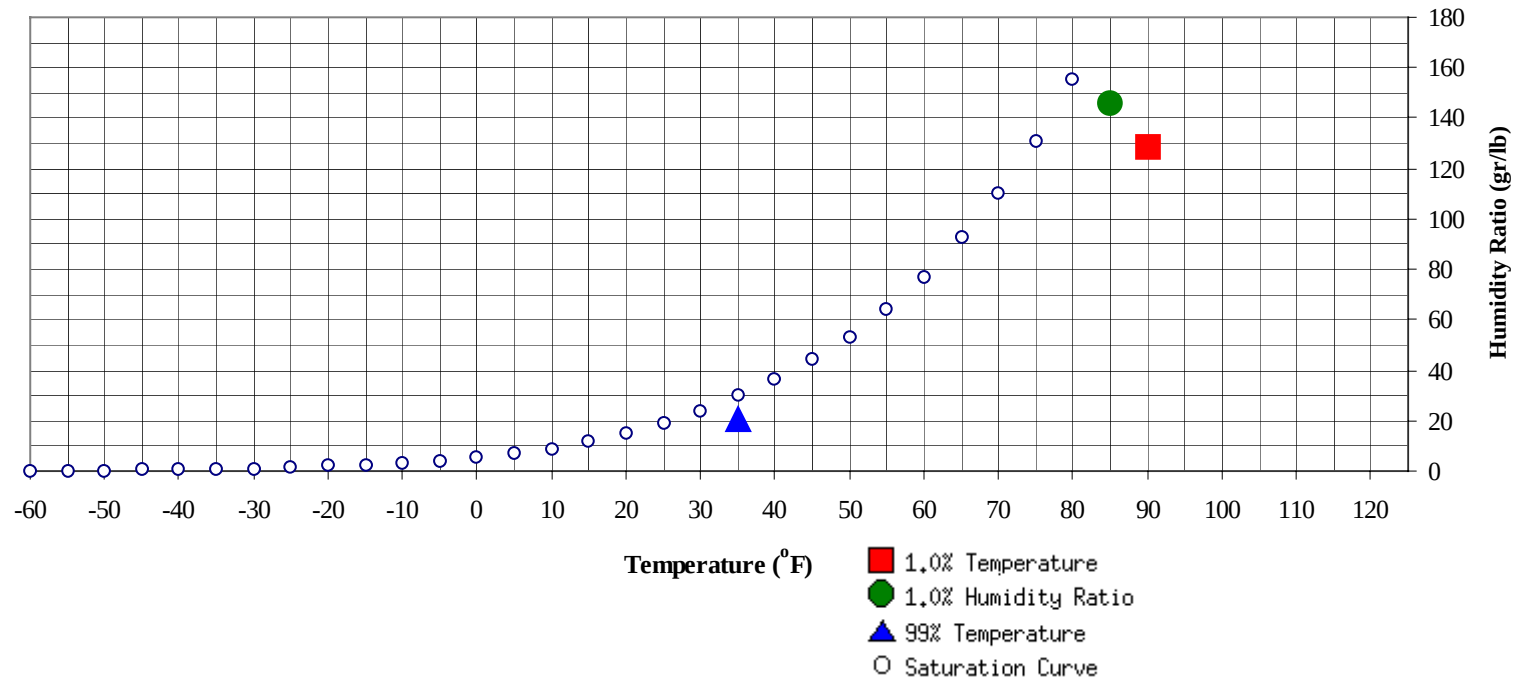


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

GALVESTON/SCHOLES TX

WMO No. 722422

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)
	35	20.7	11.6		145.6	85	79.9	78.1	43.3

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	90	128.2	78.5	41.8

GALVESTON/SCHOLES TX

WMO No. 722422

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

Period of Record = 1973 to 1991

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		
95 / 99															
90 / 94															
85 / 89												0		0	74.0
80 / 84												0		0	64.0
75 / 79		0		0	64.4		1	0	1	59.7		7	1	8	66.9
70 / 74		8	1	9	65.9		12	1	13	64.8	4	56	17	78	66.1
65 / 69	5	31	11	47	63.3	7	49	18	74	62.1	54	83	68	205	63.0
60 / 64	29	46	41	117	58.7	41	47	52	140	58.4	74	56	83	212	57.9
55 / 59	45	44	49	138	53.7	47	35	54	136	53.5	55	25	51	131	52.4
50 / 54	42	42	47	131	48.0	44	30	39	113	48.0	37	11	15	63	47.9
45 / 49	49	31	46	127	43.4	36	22	28	86	43.2	16	7	8	30	43.2
40 / 44	42	25	29	95	38.7	24	15	19	59	38.6	5	2	3	10	38.1
35 / 39	20	12	15	47	34.2	16	9	11	35	34.4	2	1	1	4	33.0
30 / 34	11	8	6	24	29.5	7	4	2	13	30.0	1	0	1	2	29.7
25 / 29	3	2	2	7	24.7	1	0	0	1	25.9	1	0	0	1	24.3
20 / 24	2	0	0	2	19.7	0	0		0	21.2					
15 / 19															
10 / 14															

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.

GALVESTON/SCHOLES TX

WMO No. 722422

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

Period of Record = 1973 to 1991

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		
95 / 99															
90 / 94							0	0	0	75.0		9	1	10	78.2
85 / 89		1	0	1	65.9	0	16	2	18	76.7	7	133	30	170	77.3
80 / 84		8	1	9	69.4	13	104	32	148	74.2	109	73	138	320	75.3
75 / 79	3	70	16	90	69.5	94	94	114	303	71.7	102	20	65	188	72.8
70 / 74	63	93	90	245	67.0	97	26	80	203	68.0	19	5	6	30	68.2
65 / 69	96	45	88	228	63.0	34	7	18	59	62.9	2	0	0	2	63.7
60 / 64	46	13	28	87	56.9	9	1	2	12	58.1					
55 / 59	20	7	13	40	51.3	1		0	1	53.9					
50 / 54	8	2	3	13	47.5	0			0	50.0					
45 / 49	3	1	1	5	42.7										
40 / 44	1		0	1	39.4										
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															

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GALVESTON/SCHOLES TX

WMO No. 722422

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

Period of Record = 1973 to 1991

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		
95 / 99		0		0	78.5		1		1	78.3		0		0	82.0
90 / 94		45	2	47	78.7		51	2	53	78.4		10	0	10	78.4
85 / 89	21	155	69	246	77.7	18	146	69	233	77.5	6	97	19	123	77.2
80 / 84	158	36	154	348	76.1	165	33	153	352	75.9	84	72	117	273	75.0
75 / 79	65	10	20	96	74.0	60	14	22	97	73.6	89	42	71	202	71.6
70 / 74	3	2	2	7	70.5	4	3	1	8	69.3	38	14	24	76	66.4
65 / 69			0	0	67.0	0			0	65.0	18	3	7	28	60.8
60 / 64											5	1	1	7	56.2
55 / 59											0	0		0	52.9
50 / 54															
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															

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GALVESTON/SCHOLES TX

WMO No. 722422

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

Period of Record = 1973 to 1991

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		
95 / 99															
90 / 94		0		0	79.7										
85 / 89	0	16	1	17	77.1		0		0	72.0					
80 / 84	15	66	20	101	73.9		8	0	8	73.3					
75 / 79	52	75	73	200	70.6	5	53	10	68	71.2		2		2	68.7
70 / 74	69	48	77	193	65.7	52	52	60	164	68.1	4	31	6	41	67.5
65 / 69	50	25	41	116	60.2	52	44	56	152	62.6	33	45	41	118	63.7
60 / 64	38	11	23	71	56.1	32	32	40	104	56.3	38	43	41	122	58.4
55 / 59	17	5	10	32	52.1	34	26	38	99	51.5	39	40	46	125	52.7
50 / 54	5	2	3	10	47.4	33	15	23	71	47.2	41	39	47	127	47.5
45 / 49	3	0	0	3	44.0	19	7	9	35	42.3	46	23	38	107	43.6
40 / 44						7	3	4	14	38.0	25	14	16	54	38.4
35 / 39						3	1	1	5	34.3	13	7	7	26	33.3
30 / 34						1	0	0	1	28.7	6	3	4	13	29.4
25 / 29											3	2	1	6	23.8
20 / 24											0	1	1	2	18.5
15 / 19											1	0	0	1	14.2
10 / 14											0			0	12.0

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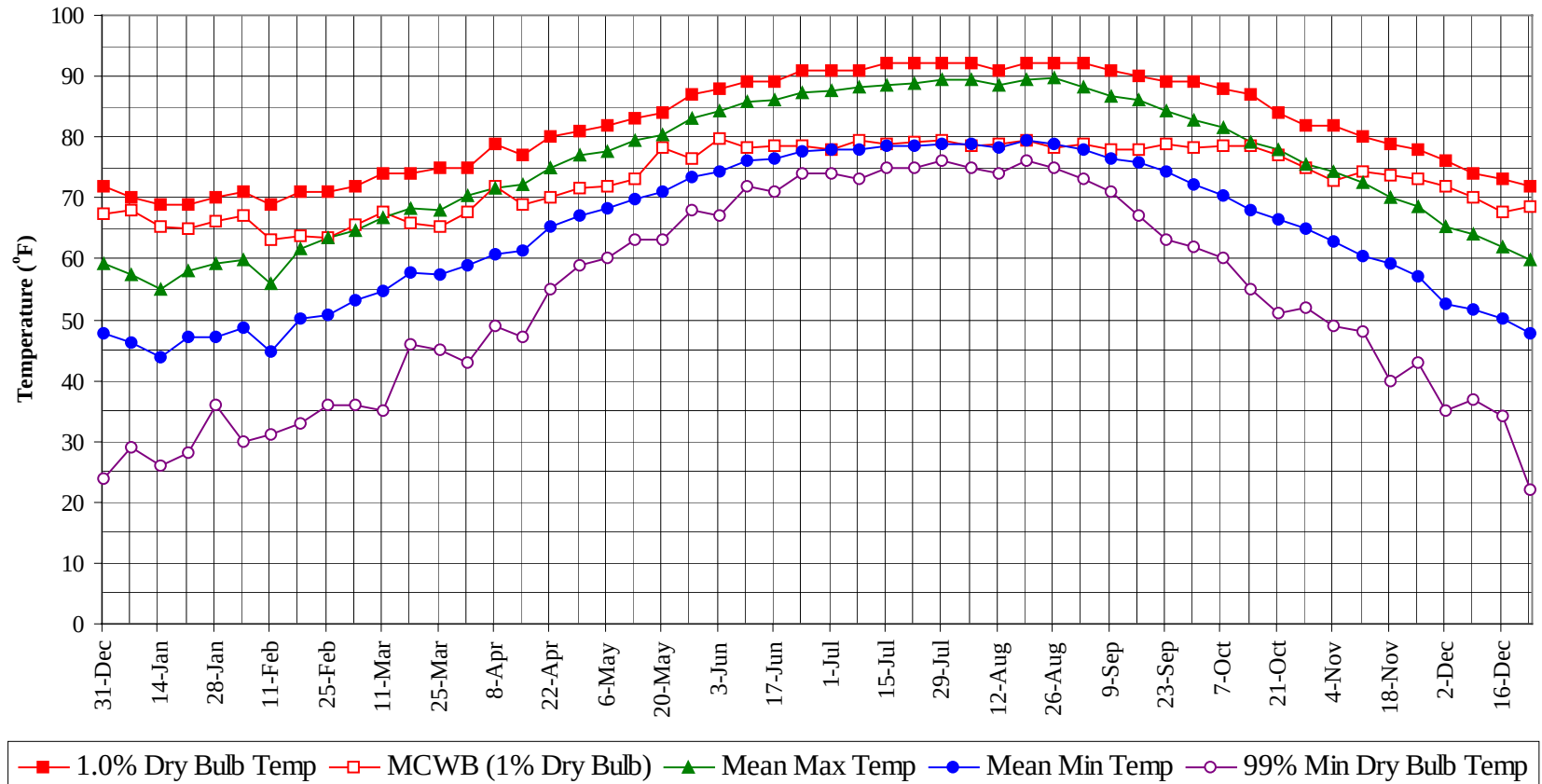
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1991

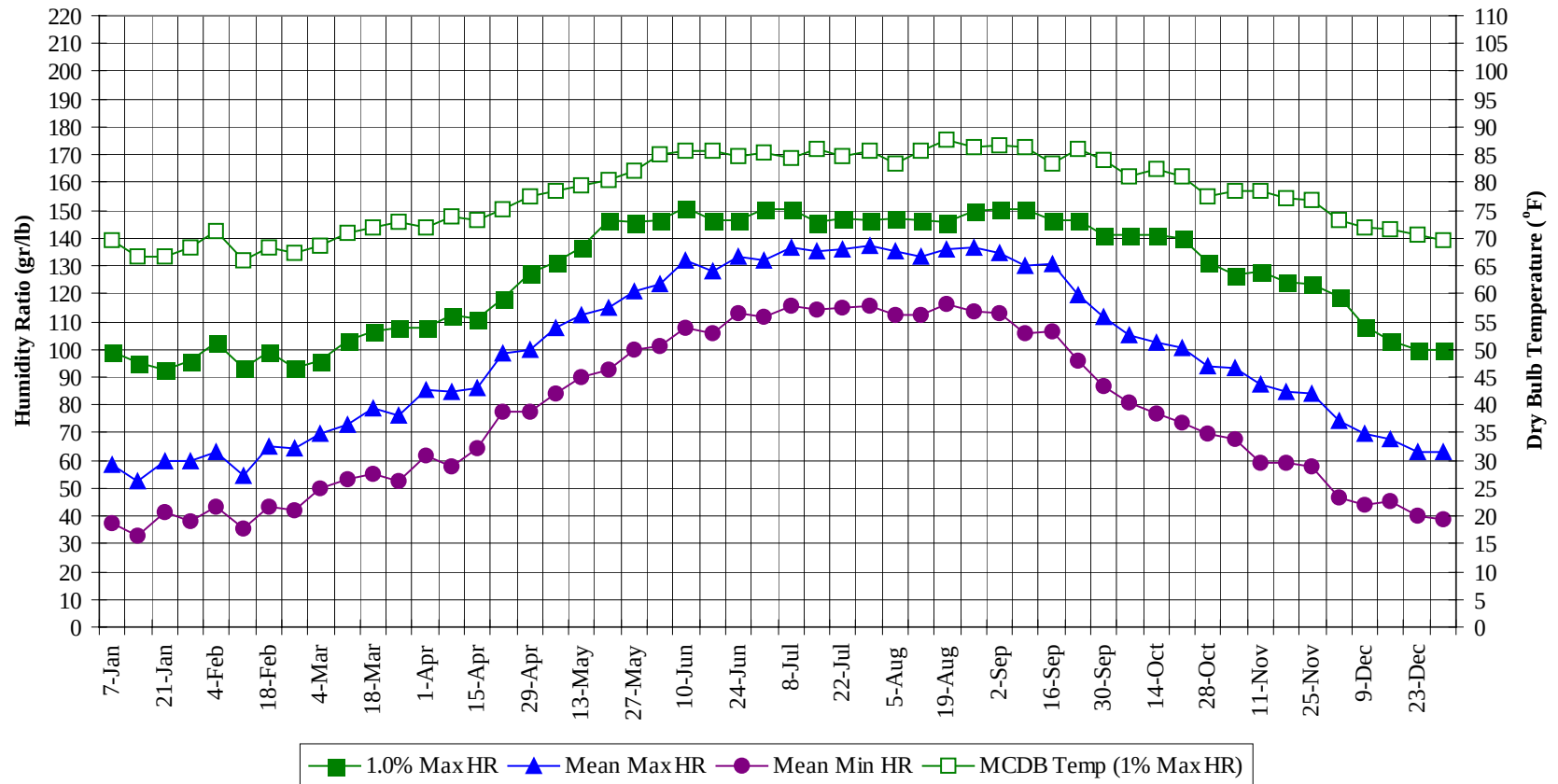
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99		1		1	79.1
90 / 94		115	5	120	78.5
85 / 89	53	561	184	797	77.4
80 / 84	530	399	596	1524	75.3
75 / 79	466	385	385	1237	71.7
70 / 74	353	350	363	1067	67.1
65 / 69	352	330	351	1033	62.6
60 / 64	314	251	319	884	57.7
55 / 59	264	183	270	716	52.7
50 / 54	213	142	185	541	47.8
45 / 49	173	92	135	400	43.3
40 / 44	107	60	72	239	38.6
35 / 39	54	31	36	121	34.0
30 / 34	27	15	14	57	29.6
25 / 29	8	4	3	15	24.5
20 / 24	3	2	1	6	19.3
15 / 19	1	0	0	1	14.2
10 / 14	0			0	12.0

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

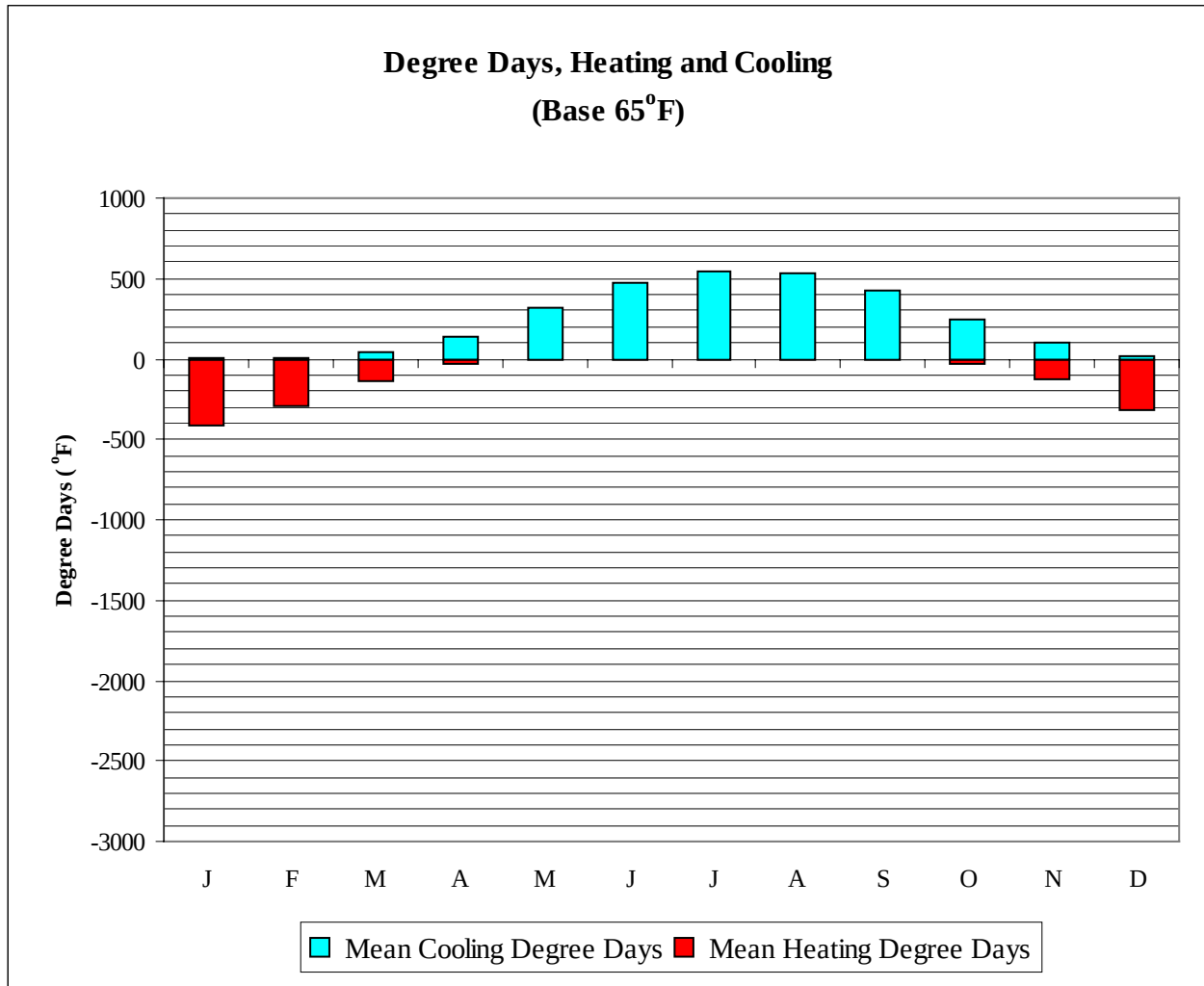


GALVESTON/SCHOLES TX

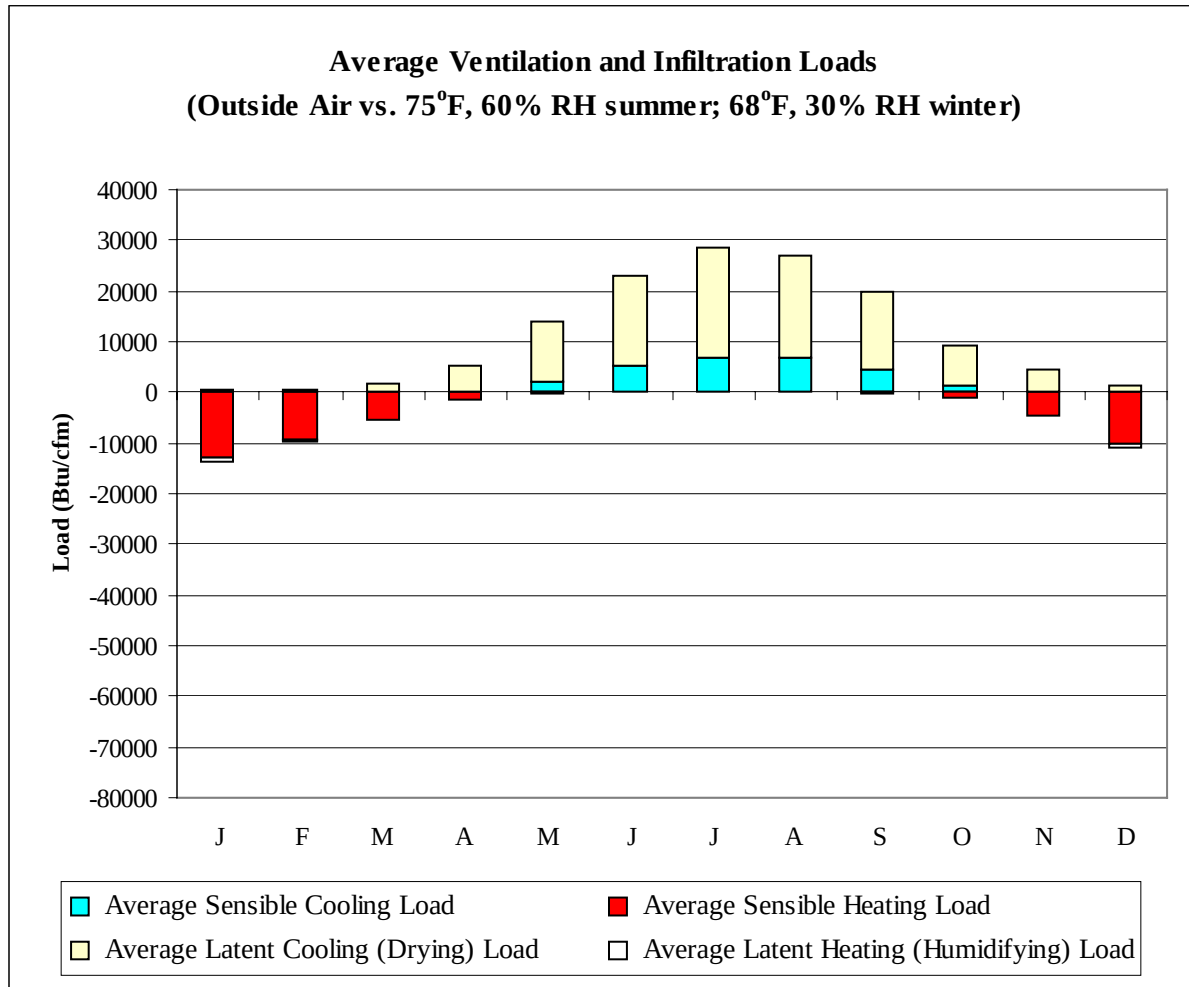
WMO No. 722422

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	70.0	67.9	57.5	46.3	29.0	99.4	69.5	58.7	37.5
14-Jan	69.0	65.3	55.1	43.7	26.0	95.2	66.7	52.5	32.9
21-Jan	69.0	64.8	58.0	47.3	28.0	92.4	66.7	60.0	41.1
28-Jan	70.0	66.3	59.3	47.2	36.0	95.9	68.3	59.5	38.2
4-Feb	71.0	67.0	59.7	48.7	30.0	102.2	71.3	63.3	43.5
11-Feb	69.0	63.1	56.0	44.8	31.0	93.1	65.9	54.3	35.6
18-Feb	71.0	63.7	61.7	50.2	33.0	99.4	68.2	64.9	43.5
25-Feb	71.0	63.5	63.6	50.7	36.0	93.1	67.3	64.3	42.3
4-Mar	72.0	65.7	64.7	53.1	36.0	95.9	68.6	69.8	49.8
11-Mar	74.0	67.6	66.6	54.6	35.0	102.9	71.0	72.9	53.0
18-Mar	74.0	65.8	68.2	57.7	46.0	106.4	71.8	78.9	55.5
25-Mar	75.0	65.1	68.1	57.3	45.0	107.8	73.0	76.1	52.8
1-Apr	75.0	67.8	70.3	59.1	43.0	107.8	72.0	85.6	61.5
8-Apr	79.0	71.9	71.6	60.7	49.0	112.0	74.0	84.9	57.8
15-Apr	77.0	69.0	72.1	61.3	47.0	111.3	73.1	85.9	64.2
22-Apr	80.0	70.1	74.9	65.3	55.0	118.3	75.3	98.5	77.6
29-Apr	81.0	71.7	77.1	66.9	59.0	127.4	77.5	100.0	77.6
6-May	82.0	72.1	77.8	68.2	60.0	131.6	78.6	107.6	83.9
13-May	83.0	73.1	79.5	69.9	63.0	136.5	79.5	112.4	89.9
20-May	84.0	78.2	80.5	71.1	63.0	146.3	80.5	115.2	92.5
27-May	87.0	76.3	83.2	73.4	68.0	145.6	82.1	120.8	99.5
3-Jun	88.0	79.7	84.2	74.2	67.0	146.3	85.2	123.3	100.9
10-Jun	89.0	78.2	85.8	76.3	72.0	151.2	85.8	132.2	107.7
17-Jun	89.0	78.7	86.0	76.3	71.0	146.3	85.7	128.1	105.7
24-Jun	91.0	78.5	87.2	77.8	74.0	146.3	84.8	133.0	112.8
1-Jul	91.0	78.1	87.6	77.8	74.0	150.5	85.5	132.3	111.8
8-Jul	91.0	79.3	88.1	78.1	73.0	150.5	84.4	136.6	115.3
15-Jul	92.0	78.9	88.6	78.4	75.0	145.6	86.1	135.2	114.1
22-Jul	92.0	79.1	88.8	78.5	75.0	147.0	84.8	135.7	114.6
29-Jul	92.0	79.4	89.5	78.8	76.0	146.3	85.6	137.1	115.6
5-Aug	92.0	78.7	89.3	78.8	75.0	147.0	83.6	135.6	112.0
12-Aug	91.0	78.8	88.5	78.3	74.0	146.3	85.6	133.4	112.0
19-Aug	92.0	79.4	89.3	79.5	76.0	145.6	87.7	136.1	116.4
26-Aug	92.0	78.3	89.7	79.0	75.0	149.8	86.4	136.3	113.4
2-Sep	92.0	78.8	88.3	78.0	73.0	150.5	86.8	134.5	112.7
9-Sep	91.0	77.9	86.7	76.3	71.0	150.5	86.3	130.1	105.5
16-Sep	90.0	78.0	86.1	75.8	67.0	146.3	83.3	130.5	106.2
23-Sep	89.0	78.9	84.3	74.2	63.0	146.3	86.0	119.4	95.7
30-Sep	89.0	78.1	82.6	72.2	62.0	141.4	84.0	111.9	86.8
7-Oct	88.0	78.6	81.5	70.3	60.0	141.4	81.2	105.1	80.8
14-Oct	87.0	78.5	79.1	67.9	55.0	141.4	82.6	102.5	76.8
21-Oct	84.0	77.0	78.1	66.4	51.0	140.0	81.2	100.6	73.5
28-Oct	82.0	74.8	75.5	64.8	52.0	131.6	77.4	94.0	69.4
4-Nov	82.0	72.9	74.4	62.9	49.0	126.7	78.6	93.3	67.9
11-Nov	80.0	74.5	72.4	60.5	48.0	128.1	78.4	87.3	59.3
18-Nov	79.0	73.9	70.1	59.1	40.0	123.9	77.2	84.9	59.2
25-Nov	78.0	73.1	68.6	57.2	43.0	123.2	76.8	83.9	57.7
2-Dec	76.0	72.0	65.2	52.7	35.0	119.0	73.4	74.4	46.7
9-Dec	74.0	70.1	64.0	51.6	37.0	108.5	72.0	69.9	44.0
16-Dec	73.0	67.8	62.1	50.0	34.0	102.9	71.5	68.0	45.1
23-Dec	72.0	68.5	59.8	47.8	22.0	100.1	70.6	63.3	40.3
31-Dec	72.0	67.4	59.4	47.6	24.0	100.1	69.7	62.9	39.1



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	5	408
FEB	9	289
MAR	40	137
APR	136	34
MAY	323	2
JUN	471	0
JUL	548	0
AUG	538	0
SEP	423	1
OCT	243	25
NOV	96	127
DEC	19	314
ANN	2851	1337



	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	0	-12886	384	-822
FEB	1	-9409	383	-507
MAR	7	-5284	1810	-171
APR	201	-1571	5063	-33
MAY	1927	-135	12110	0
JUN	5189	-1	17949	0
JUL	6976	0	21403	0
AUG	6879	0	19957	0
SEP	4300	-75	15424	0
OCT	1358	-1138	7709	-11
NOV	166	-4517	4335	-214
DEC	1	-10196	1174	-655
ANN	27005	-45212	107701	-2413

Average Annual Solar Radiation – Nearest Available Site

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

City: HOUSTON
 State: TX
 WBAN No: 12960
 Lat(N): 29.98
 Long(W): 95.37
 Elev(ft): 108

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.876
 Vert Gap: 0.649

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	840	1080	1340	1590	1780	1910	1880	1780	1540	1330	970	790	1400
	Std Dev	80	93	113	152	144	156	122	126	121	128	104	54	39
	Minimum	710	880	1130	1350	1470	1620	1600	1520	1330	1040	690	690	1330
	Maximum	1000	1290	1600	2020	2030	2180	2130	2000	1790	1660	1240	930	1510
	Diffuse	420	500	630	760	830	860	860	790	680	520	430	390	640
Clear Day	Global	1300	1620	2010	2350	2520	2570	2520	2350	2060	1680	1340	1190	1960
NORTH	Global	260	310	380	450	550	630	590	500	410	340	270	240	410
	Diffuse	260	310	380	440	490	520	510	470	410	340	270	240	390
Clear Day	Global	240	290	360	430	590	700	640	490	390	320	260	230	410
EAST	Global	490	620	730	840	930	1020	1030	1010	900	780	580	470	780
	Diffuse	300	370	450	530	590	620	620	590	520	430	330	290	470
Clear Day	Global	860	1030	1200	1320	1360	1350	1330	1280	1180	1030	860	800	1130
SOUTH	Global	990	1050	950	780	630	570	610	750	960	1190	1130	1000	880
	Diffuse	390	440	490	520	520	510	520	540	540	500	420	380	480
Clear Day	Global	2000	1900	1570	1070	730	610	660	920	1340	1720	1900	1960	1360
WEST	Global	530	660	800	910	980	1030	980	950	870	800	610	490	800
	Diffuse	310	370	460	540	600	620	610	580	510	430	330	290	470
Clear Day	Global	860	1030	1200	1320	1360	1350	1330	1280	1180	1030	860	800	1130

Average Annual Solar Heat and Illumination – Nearest Available Site

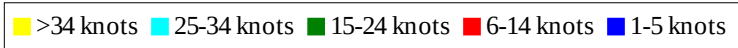
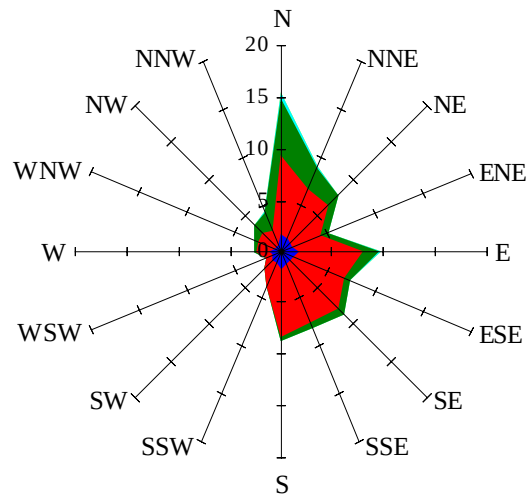
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	580	760	960	1150	1290	1390	1370	1290	1110	950	670	540	1010
NORTH	Unshaded	180	220	260	310	360	400	380	330	280	240	190	170	280
	Shaded	150	190	230	270	310	340	330	290	250	210	170	140	240
EAST	Unshaded	340	440	520	600	650	720	730	720	640	550	400	330	550
	Shaded	290	370	430	490	540	590	600	600	530	460	350	280	460
SOUTH	Unshaded	730	740	630	480	390	360	380	450	610	830	820	740	600
	Shaded	680	600	370	310	310	320	320	330	340	590	740	710	470
WEST	Unshaded	370	470	570	650	690	730	690	670	610	560	420	340	570
	Shaded	320	400	480	540	570	610	570	560	520	480	360	290	470

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	39	78	94	79	39	36	78	101	99	72
	M.Cloudy	20	44	54	45	22	24	56	73	71	51
NORTH	M.Clear	10	15	16	15	10	24	18	17	18	19
	M.Cloudy	9	16	18	16	9	15	18	19	19	18
EAST	M.Clear	77	65	16	15	10	64	74	39	18	17
	M.Cloudy	21	31	19	16	9	31	49	32	19	17
SOUTH	M.Clear	31	61	72	62	31	11	17	29	28	17
	M.Cloudy	12	29	38	31	15	10	18	26	25	17
WEST	M.Clear	10	15	16	65	76	11	17	17	46	74
	M.Cloudy	9	16	19	32	25	10	18	19	36	47
M.Clear	(% hrs)	28	29	30	32	36	42	31	28	30	38
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	23	68	92	86	56	20	54	65	48	12
	M.Cloudy	15	46	64	61	39	10	29	36	26	7
NORTH	M.Clear	8	15	17	17	14	7	11	13	11	5
	M.Cloudy	7	16	19	18	14	5	12	14	11	4
EAST	M.Clear	53	74	38	17	14	51	50	13	11	5
	M.Cloudy	21	43	30	18	14	12	21	14	11	4
SOUTH	M.Clear	14	45	64	60	38	40	80	91	74	26
	M.Cloudy	8	29	43	40	24	10	28	34	25	8
WEST	M.Clear	8	15	17	48	73	7	11	18	55	37
	M.Cloudy	7	16	19	34	40	5	12	15	21	10
M.Clear	(% hrs)	51	38	33	34	39	29	29	30	32	32

Wind Summary - December, January, and February

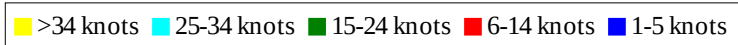
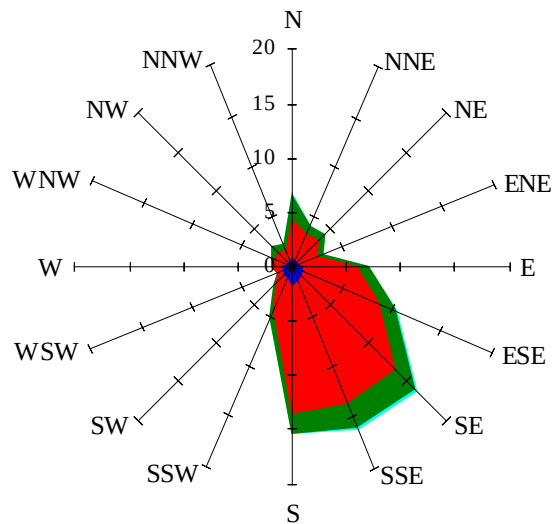
Labels of Percent Frequency on North Axis



Percent Calm = 0.55

Wind Summary - March, April, and May

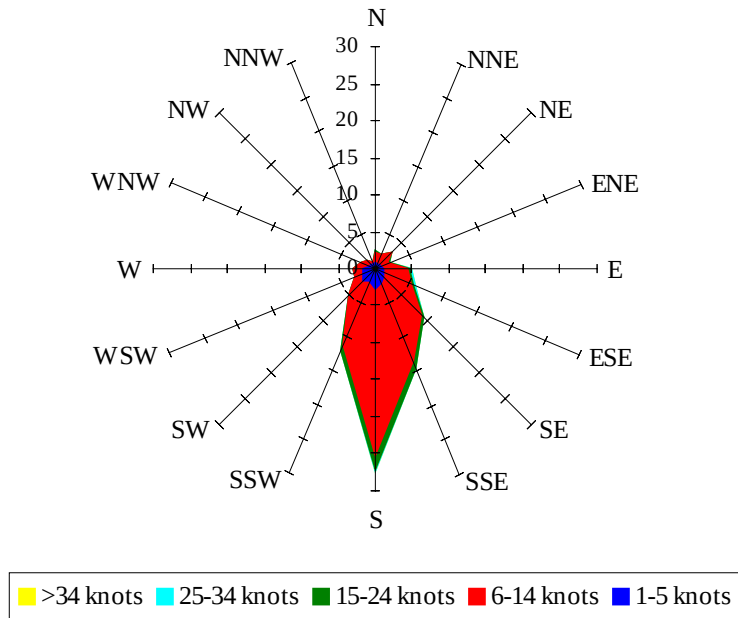
Labels of Percent Frequency on North Axis



Percent Calm = 0.32

Wind Summary - June, July, and August

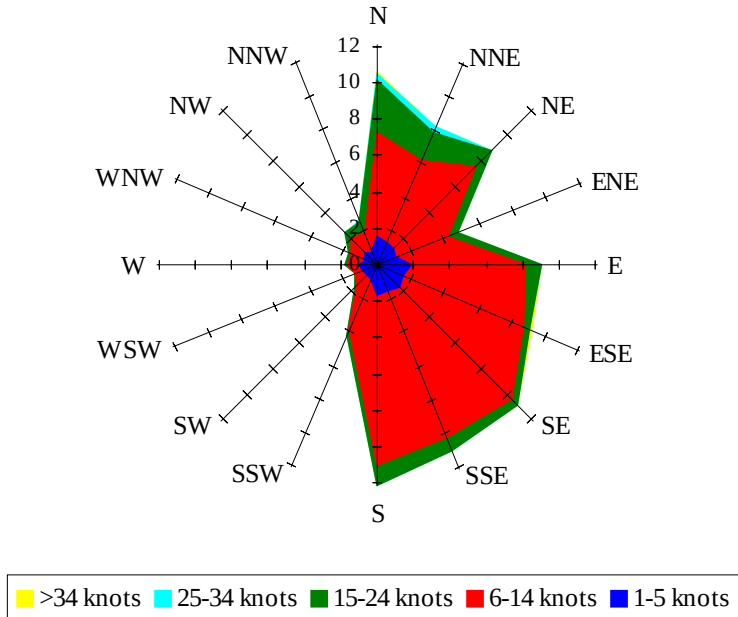
Labels of Percent Frequency on North Axis



Percent Calm = 0.63

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 0.59