

DALLAS/LOVE TX

Latitude = 32.85 N

Longitude = 96.85 W

Period of Record = 1973 to 1996

WMO No. 722580

Elevation = 486 feet

Average Pressure = 29.47 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	103	76	93	8.4	S
0.4% Occurrence	100	76	97	9.5	S
1.0% Occurrence	98	76	99	9.8	S
2.0% Occurrence	96	75	101	10.2	S
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	31	28	18	8.8	N
99.0% Occurrence	25	22	12	10.5	N
99.6% Occurrence	20	18	10	10.3	N
Median of Extreme Lows	15	14	8	11.8	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	94	144	8.8	S
0.4% Occurrence	79	92	127	9.8	S
1.0% Occurrence	78	91	123	9.9	S
2.0% Occurrence	77	90	119	10.1	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	150	86	0.97	10.2	S
0.4% Occurrence	138	84	0.90	8.8	S
1.0% Occurrence	133	83	0.88	8.4	S
2.0% Occurrence	129	83	0.85	8.8	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		421	2238	1754	3303

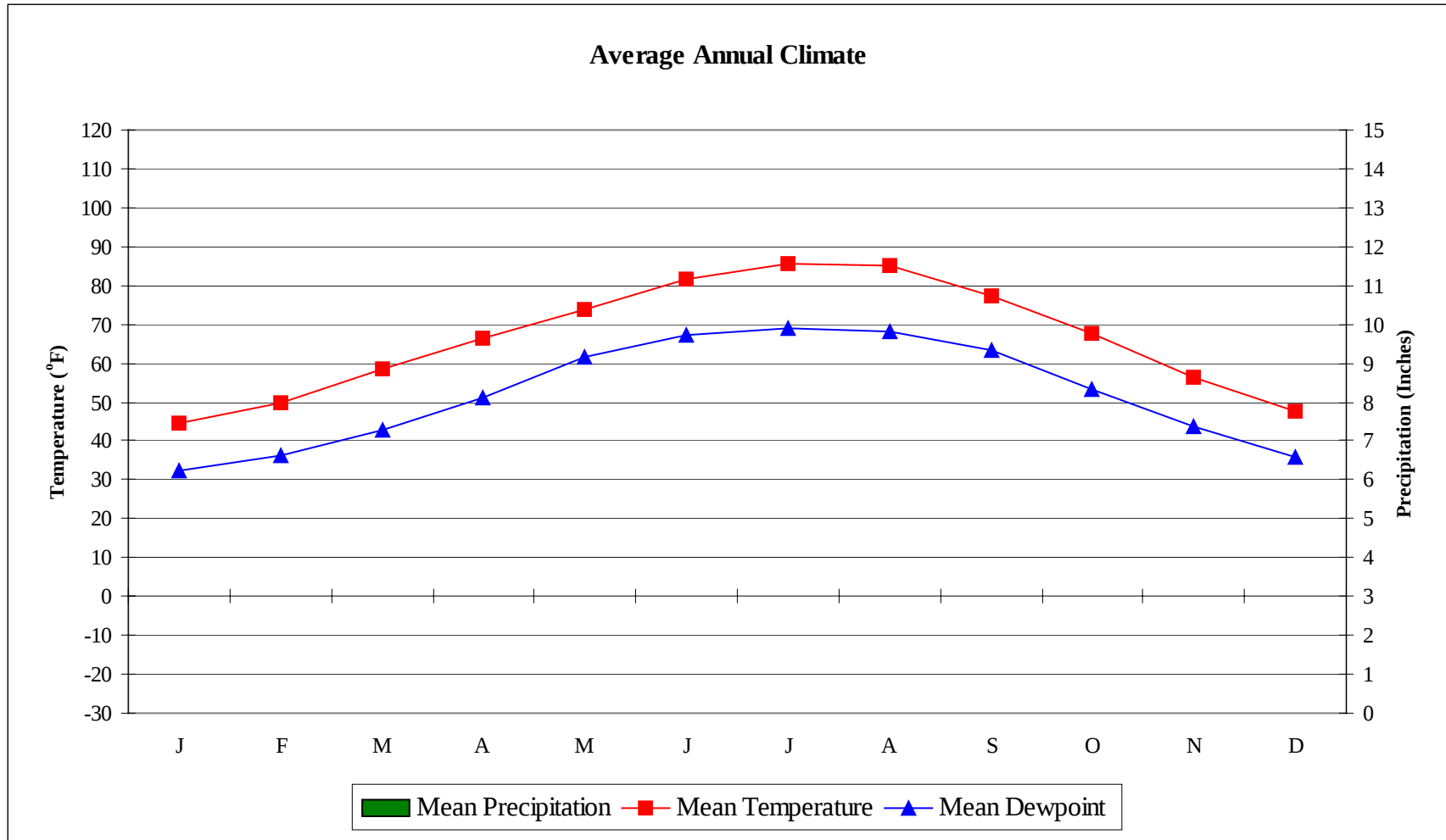
Other Site Data

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
11	N/A	N/A	4.8 + 2.6
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 (#)
68.8	N/A	N/A	17

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

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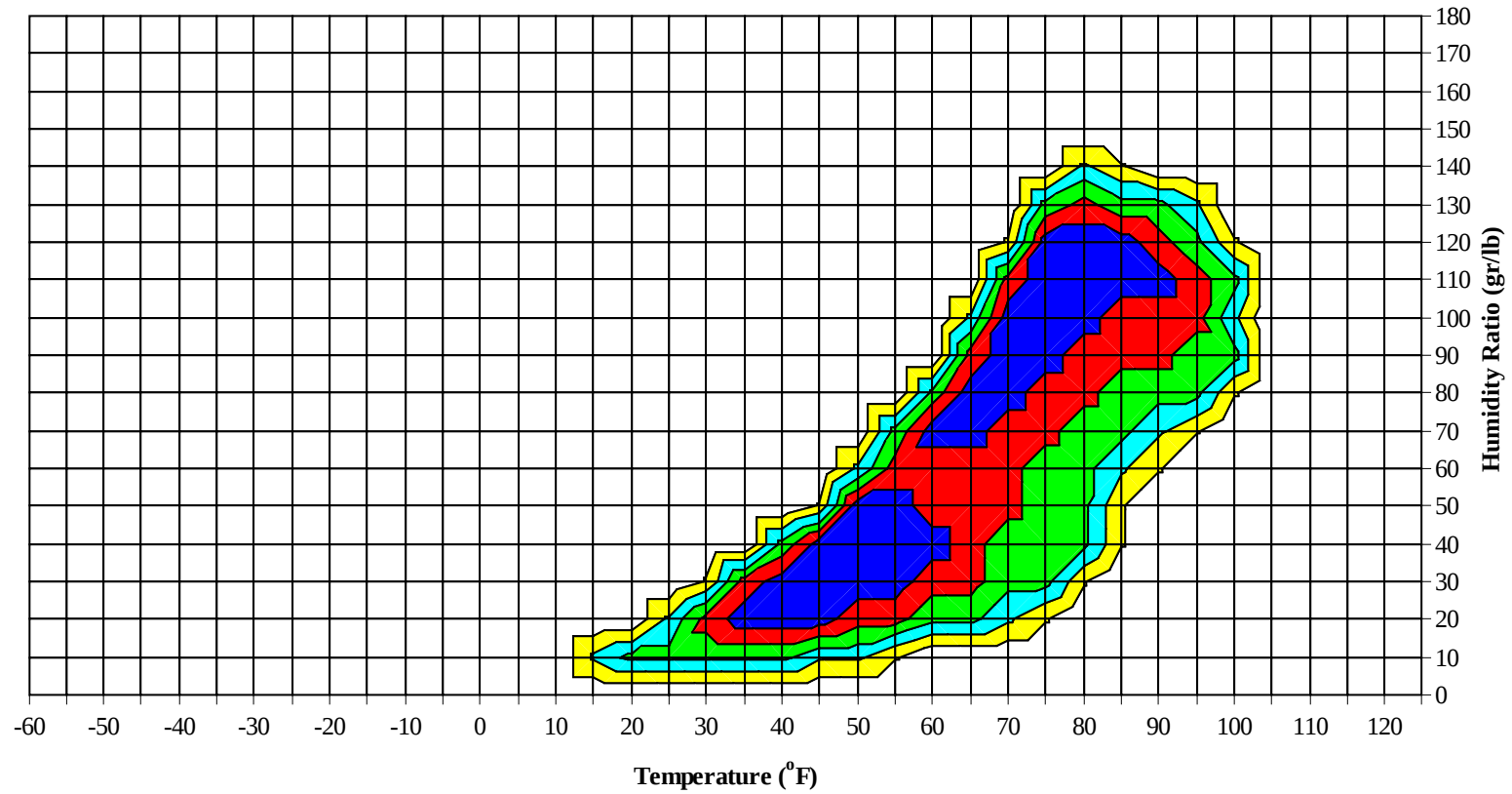


No Precipitation Data Available

DALLAS/LOVE TX

WMO No. 722580

Long Term Psychrometric Summary

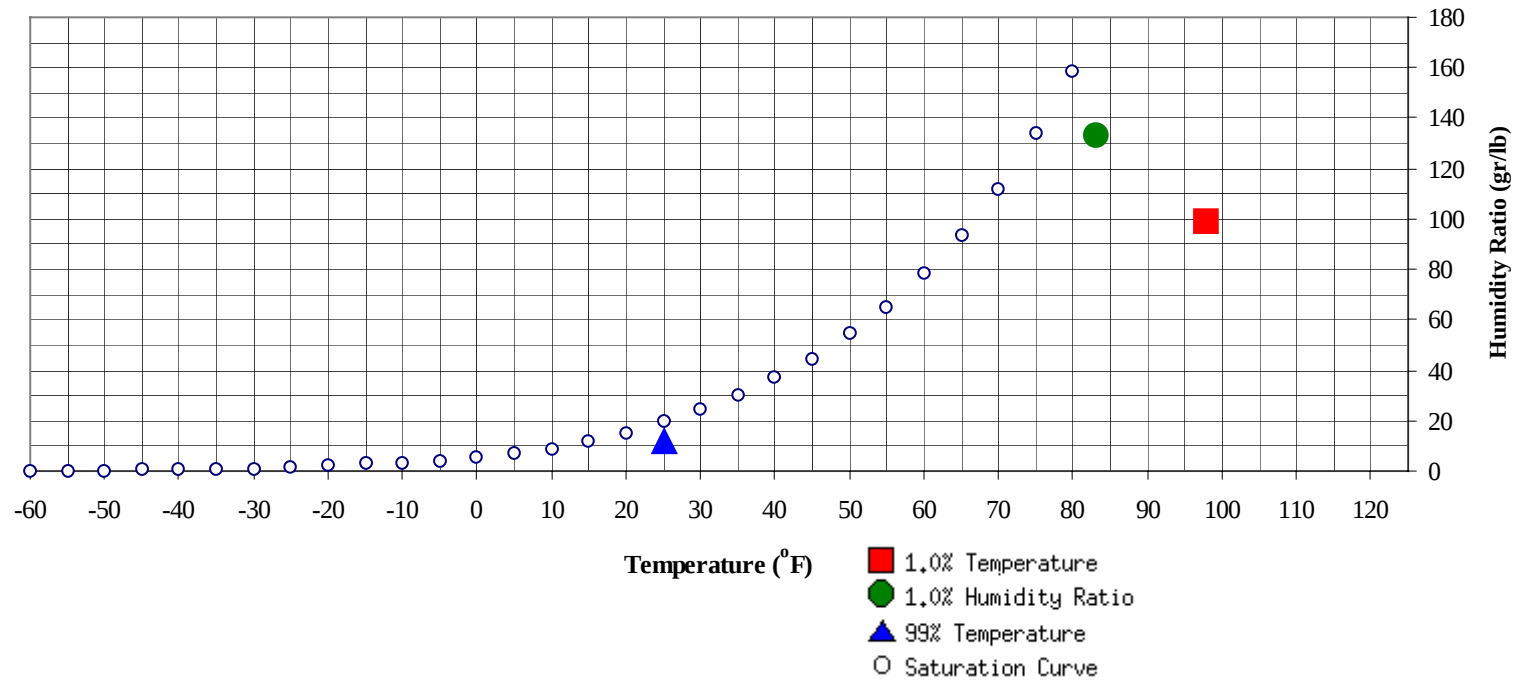


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	25	12.2	7.9		133	83	77.1	75	40.8

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	98	99.2	75.7	39.2

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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		
110 / 114															
105 / 109															
100 / 104															
95 / 99							0	0	0	64.3		0		0	68.0
90 / 94							0	0	0	62.4		0	0	0	65.6
85 / 89							1	0	1	60.5		2	1	3	65.1
80 / 84		0	0	0	61.0		3	1	4	59.5	0	12	6	18	63.7
75 / 79		3	1	4	59.4	0	9	5	14	59.3	0	23	17	40	62.2
70 / 74		9	4	13	57.9	0	16	13	29	58.2	8	35	35	78	60.7
65 / 69	4	15	13	32	57.1	8	23	22	53	56.8	24	40	42	107	57.8
60 / 64	6	21	20	47	53.1	15	27	28	70	53.2	35	39	40	115	54.0
55 / 59	12	27	26	66	49.7	23	28	29	80	49.8	38	34	38	111	49.8
50 / 54	22	31	34	88	45.7	28	28	31	87	45.8	45	26	29	101	45.9
45 / 49	34	35	38	108	41.9	35	26	30	91	41.8	38	18	20	76	42.2
40 / 44	43	36	39	119	37.6	39	24	24	87	37.9	29	9	11	49	37.9
35 / 39	45	29	32	107	33.7	29	16	18	63	33.4	18	6	5	29	33.5
30 / 34	42	22	22	87	29.4	26	11	12	49	29.7	8	2	2	12	29.1
25 / 29	20	11	12	43	24.5	11	7	6	24	24.6	2	1	1	4	23.6
20 / 24	11	5	5	21	19.6	6	2	2	10	20.2	1	0	0	1	20.6
15 / 19	6	1	1	8	15.1	3	2	1	6	15.5	0	0		0	16.2
10 / 14	1	0	0	1	10.9	1	0		1	11.8					
5 / 9	0		0	0	6.2										
0 / 4															

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.

DALLAS/LOVE TX

WMO No. 722580

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		
110 / 114												0	0	0	76.0
105 / 109												0	0	0	76.6
100 / 104							0	0	0	73.0		2	1	3	76.3
95 / 99		0	0	0	69.8		1	1	2	74.4	0	18	9	27	75.9
90 / 94		2	1	3	68.8		14	7	21	73.9	0	61	36	97	74.9
85 / 89		9	4	13	68.8	0	41	24	65	72.2	3	68	59	131	73.5
80 / 84		31	17	48	66.4	3	59	48	110	70.2	43	52	68	163	72.3
75 / 79	3	48	41	92	64.5	37	59	60	156	68.6	99	24	41	164	70.9
70 / 74	27	50	57	134	62.8	73	40	52	166	65.9	63	12	20	95	67.7
65 / 69	50	40	43	133	59.6	65	21	34	120	62.4	26	2	5	33	63.8
60 / 64	50	28	35	113	55.2	41	9	13	63	58.0	6	0	0	6	58.7
55 / 59	46	17	21	84	51.1	18	3	6	27	53.5	1			1	52.8
50 / 54	33	10	14	57	46.6	8	2	1	11	49.9	0			0	52.0
45 / 49	20	4	5	29	42.7	2		0	2	46.5					
40 / 44	9	1	2	12	38.9	0			0	43.7					
35 / 39	2	0	0	2	33.6										
30 / 34	0			0	31.6										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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DALLAS/LOVE TX

WMO No. 722580

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		
110 / 114															
105 / 109		2	1	3	76.1		0	0	0	76.5					
100 / 104		15	7	22	75.9		15	5	20	75.6		2	0	2	75.6
95 / 99	0	54	30	84	75.6	0	55	31	86	75.6		13	6	19	74.4
90 / 94	1	76	60	137	75.2	0	71	56	127	74.7		40	20	60	73.7
85 / 89	18	56	68	142	74.3	17	56	66	139	73.9	2	52	39	93	72.6
80 / 84	100	31	48	179	73.5	96	32	53	181	73.1	22	53	58	133	71.3
75 / 79	99	11	26	136	72.4	94	13	28	135	71.6	72	36	49	157	69.9
70 / 74	29	3	7	39	69.8	34	5	8	47	68.5	66	22	32	120	66.8
65 / 69	2	0		2	63.9	6	0	1	7	63.3	35	12	17	64	61.6
60 / 64						1			1	58.8	21	6	11	38	57.0
55 / 59						0			0	58.0	15	4	6	25	53.4
50 / 54											6	0	2	8	48.9
45 / 49											2	0		2	45.3
40 / 44											0			0	41.0
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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DALLAS/LOVE TX

WMO No. 722580

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		
110 / 114															
105 / 109															
100 / 104															
95 / 99		1	0	1	70.1										
90 / 94		6	2	8	70.5										
85 / 89		22	8	30	69.2		1	0	1	66.3					
80 / 84	1	38	21	60	67.3		9	2	11	66.2		1	0	1	60.7
75 / 79	12	45	40	97	65.7	1	19	11	31	65.1		5	2	7	63.3
70 / 74	34	47	53	134	63.2	11	32	26	69	63.3	0	13	7	20	61.0
65 / 69	50	38	50	138	60.3	20	33	30	83	59.5	10	22	16	48	59.1
60 / 64	50	24	34	108	56.1	25	36	35	96	55.0	11	27	24	62	54.4
55 / 59	43	15	21	79	51.9	32	31	39	102	50.6	14	32	31	77	49.7
50 / 54	33	7	11	51	47.7	43	32	37	112	46.5	30	39	42	111	45.9
45 / 49	17	3	6	26	43.9	39	22	29	90	42.5	38	35	43	116	42.0
40 / 44	7	1	1	9	39.3	33	13	17	63	38.3	49	32	36	117	38.1
35 / 39	1	0	1	2	34.1	22	6	9	37	33.8	44	20	20	84	33.8
30 / 34	1		0	1	30.0	12	3	4	19	29.6	29	12	15	56	29.2
25 / 29	0			0	25.2	3	1	1	5	24.8	12	5	6	23	24.2
20 / 24						1	0	0	1	20.0	5	2	2	9	19.3
15 / 19						0			0	17.0	3	2	3	8	15.3
10 / 14											2	1	1	4	10.3
5 / 9											1	0	0	1	5.6
0 / 4											0	0		0	1.7

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DALLAS/LOVE TX**WMO No. 722580****Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)****Period of Record = 1973 to 1996**

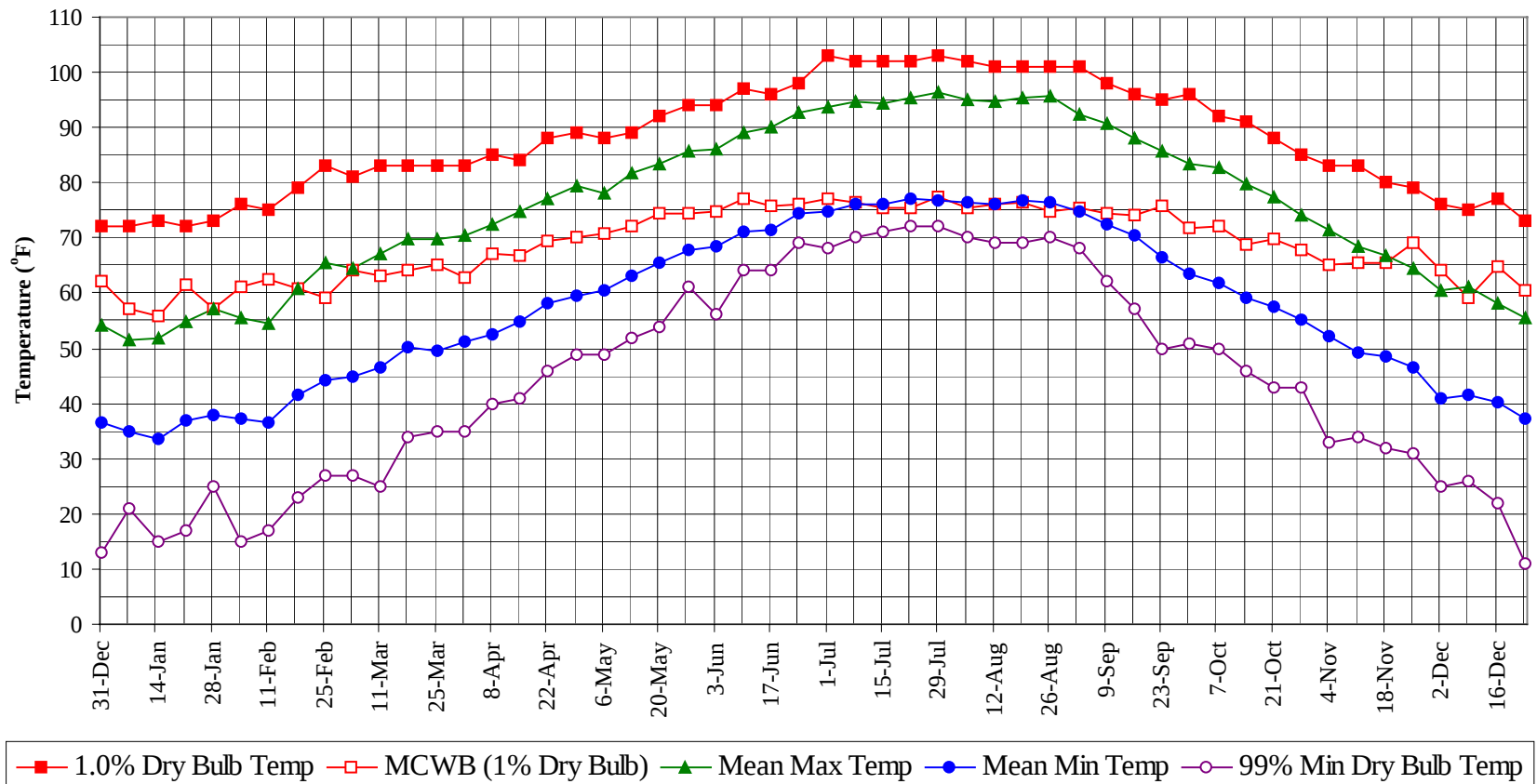
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
110 / 114		0	0	0	76.0
105 / 109		3	1	4	76.2
100 / 104		34	14	48	75.8
95 / 99		0	142	76	75.5
90 / 94		1	270	180	74.6
85 / 89		39	307	269	73.1
80 / 84		265	323	323	71.3
75 / 79		418	295	321	1034
70 / 74		345	285	317	947
65 / 69		300	246	273	819
60 / 64		260	219	243	721
55 / 59		242	192	218	651
50 / 54		249	174	202	624
45 / 49		225	143	170	538
40 / 44		210	117	130	457
35 / 39		160	78	85	323
30 / 34		117	50	54	221
25 / 29		49	24	26	99
20 / 24		24	11	10	45
15 / 19		12	5	6	23
10 / 14		4	2	1	7
5 / 9		1	0	1	2
0 / 4		0	0		0

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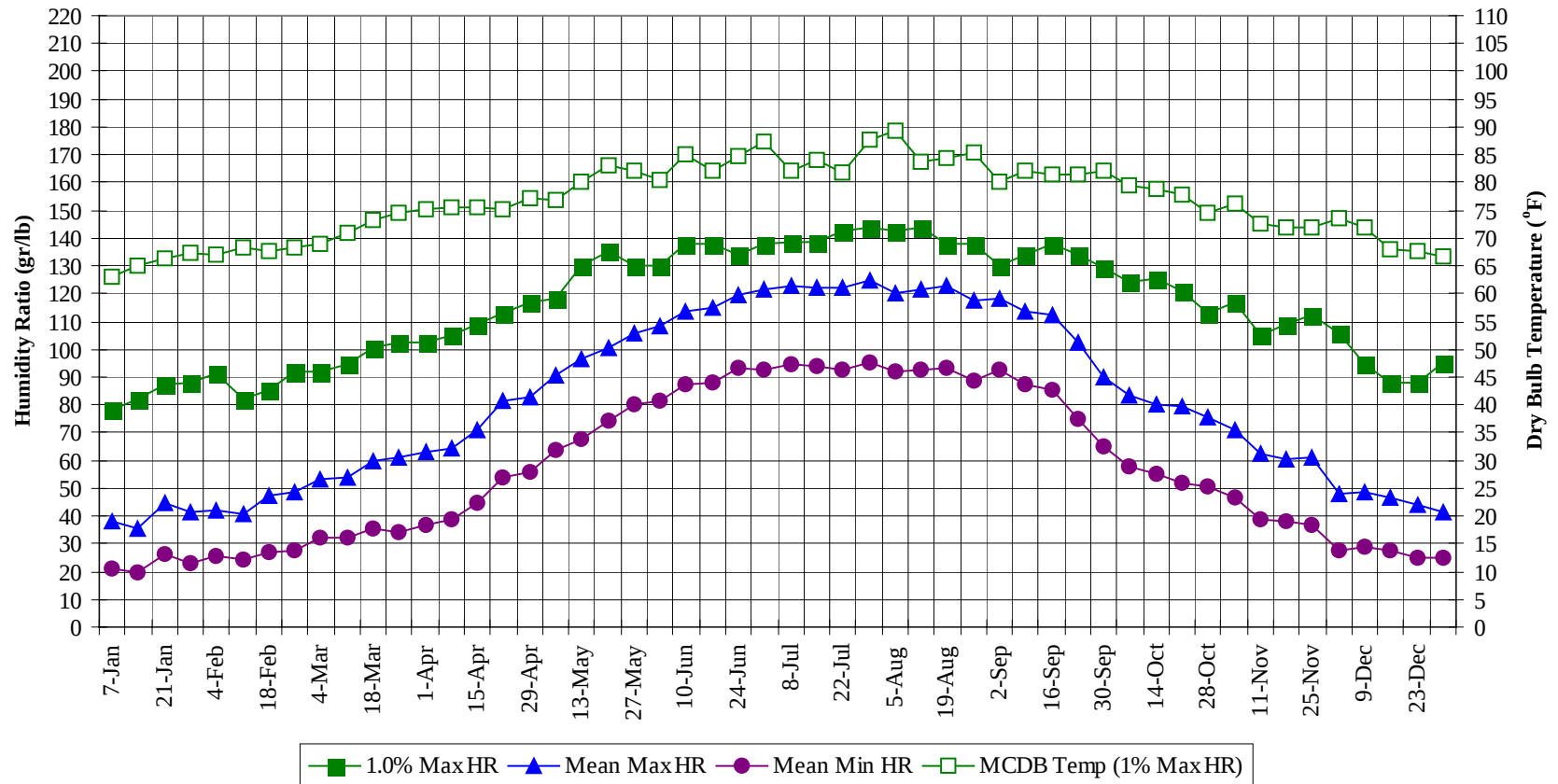
DALLAS/LOVE TX

WMO No. 722580

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

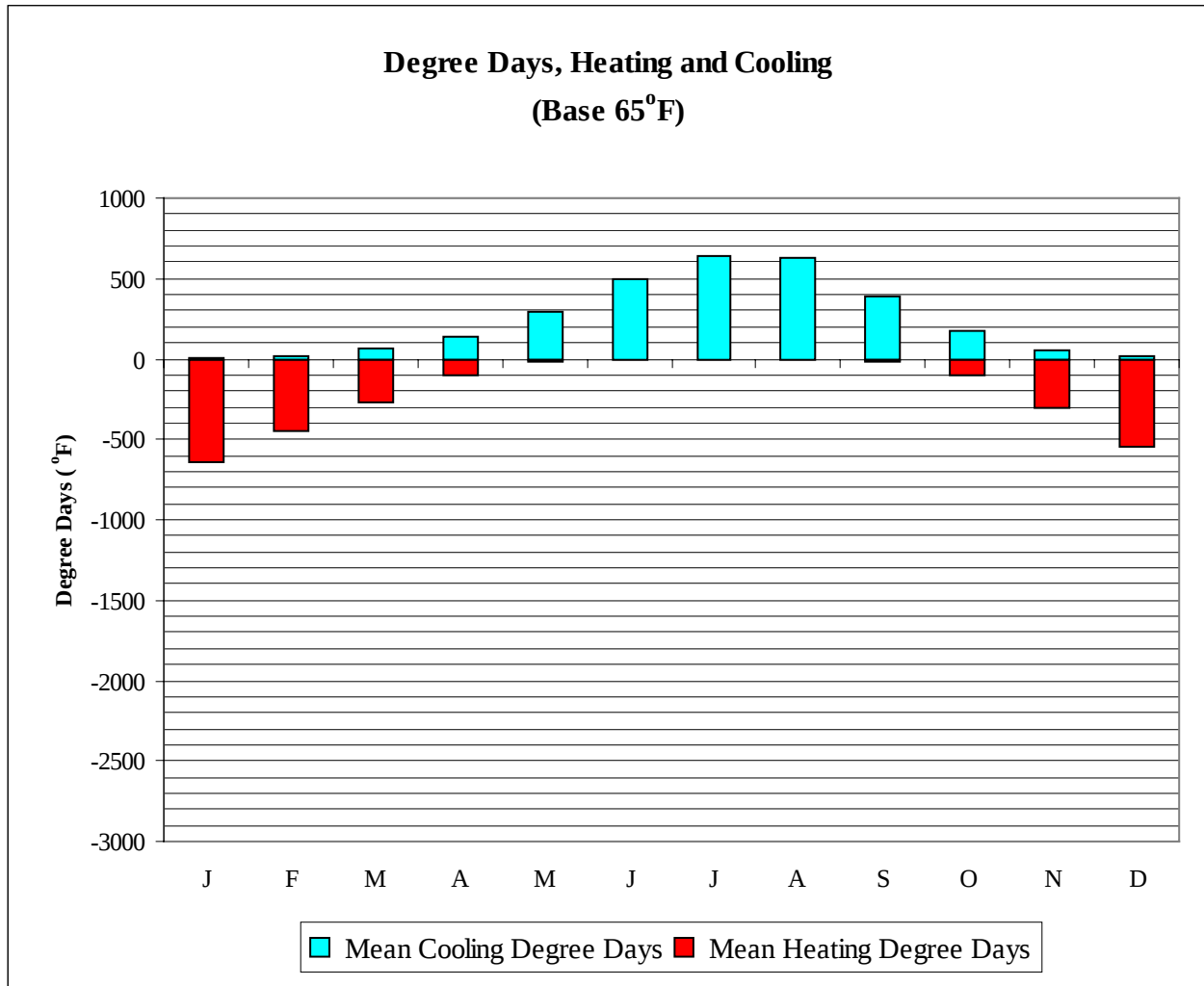


DALLAS/LOVE TX**WMO No. 722580****Long Term Dry Bulb Temperature and Humidity Summary**

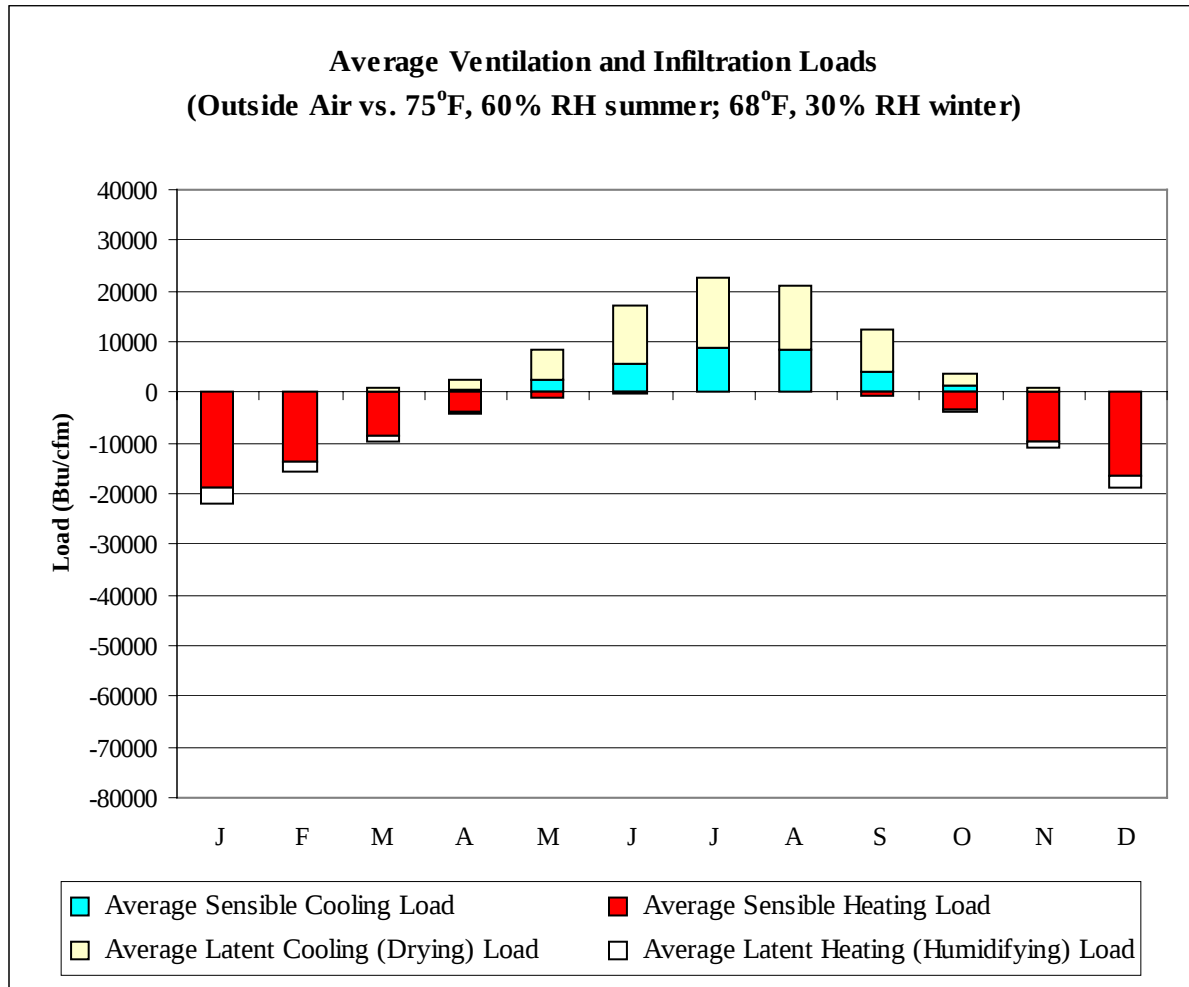
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	72.0	57.3	51.6	34.8	21.0	78.4	63.0	37.8	21.3
14-Jan	73.0	55.9	51.9	33.6	15.0	81.9	64.9	35.4	19.5
21-Jan	72.0	61.6	54.9	36.9	17.0	87.5	66.2	44.5	26.5
28-Jan	73.0	57.3	57.2	37.9	25.0	88.2	67.2	41.6	23.1
4-Feb	76.0	61.1	55.4	37.3	15.0	91.0	67.1	41.8	25.5
11-Feb	75.0	62.5	54.5	36.5	17.0	81.9	68.2	40.7	24.2
18-Feb	79.0	60.8	60.9	41.5	23.0	85.4	67.6	47.0	26.8
25-Feb	83.0	59.2	65.5	44.1	27.0	91.7	68.4	48.5	27.7
4-Mar	81.0	64.2	64.5	44.8	27.0	91.7	68.9	53.1	32.4
11-Mar	83.0	63.2	67.1	46.4	25.0	94.5	71.0	53.6	32.2
18-Mar	83.0	64.3	69.8	50.1	34.0	100.8	73.1	59.5	35.7
25-Mar	83.0	65.2	69.6	49.4	35.0	102.2	74.7	60.9	34.2
1-Apr	83.0	62.9	70.4	51.1	35.0	102.2	75.1	63.1	36.9
8-Apr	85.0	67.0	72.5	52.4	40.0	105.0	75.6	64.6	38.6
15-Apr	84.0	66.7	74.9	54.9	41.0	109.2	75.6	70.9	44.9
22-Apr	88.0	69.6	77.0	58.3	46.0	112.7	75.2	81.5	54.1
29-Apr	89.0	70.1	79.5	59.4	49.0	116.9	77.0	82.9	56.1
6-May	88.0	70.9	78.1	60.5	49.0	118.3	76.7	90.5	63.5
13-May	89.0	72.2	81.6	63.2	52.0	130.2	80.1	96.7	67.4
20-May	92.0	74.4	83.6	65.6	54.0	135.1	83.2	100.4	74.1
27-May	94.0	74.6	85.9	67.9	61.0	130.2	82.2	106.0	80.2
3-Jun	94.0	74.6	86.1	68.4	56.0	130.2	80.5	108.5	81.8
10-Jun	97.0	77.1	89.1	71.0	64.0	137.9	85.1	113.7	87.3
17-Jun	96.0	75.6	90.0	71.6	64.0	137.9	82.0	114.9	88.2
24-Jun	98.0	76.3	92.8	74.3	69.0	133.7	84.7	119.4	93.4
1-Jul	103.0	77.0	93.7	74.8	68.0	137.9	87.3	121.2	92.8
8-Jul	102.0	76.4	94.9	76.2	70.0	138.6	82.0	122.6	94.9
15-Jul	102.0	75.4	94.3	76.2	71.0	138.6	84.0	122.0	93.6
22-Jul	102.0	75.3	95.4	77.0	72.0	142.8	81.7	122.3	92.7
29-Jul	103.0	77.5	96.4	76.9	72.0	143.5	87.7	125.0	95.0
5-Aug	102.0	75.5	94.9	76.5	70.0	142.8	89.3	120.2	91.9
12-Aug	101.0	76.0	94.8	76.0	69.0	143.5	83.6	121.2	92.6
19-Aug	101.0	76.4	95.3	76.7	69.0	137.9	84.5	122.9	93.4
26-Aug	101.0	74.6	95.8	76.5	70.0	137.9	85.5	117.8	88.6
2-Sep	101.0	75.4	92.5	74.8	68.0	130.2	80.2	117.9	92.6
9-Sep	98.0	74.5	90.7	72.6	62.0	133.7	82.0	113.7	87.0
16-Sep	96.0	74.3	88.2	70.3	57.0	137.9	81.5	112.3	85.2
23-Sep	95.0	75.6	85.6	66.6	50.0	133.7	81.3	102.5	74.7
30-Sep	96.0	71.9	83.5	63.4	51.0	129.5	82.3	90.1	64.9
7-Oct	92.0	72.1	82.7	61.7	50.0	123.9	79.6	83.6	57.7
14-Oct	91.0	68.9	79.9	59.1	46.0	125.3	78.7	80.4	55.5
21-Oct	88.0	69.9	77.5	57.4	43.0	121.1	77.7	79.2	51.9
28-Oct	85.0	67.8	74.3	55.1	43.0	112.7	74.6	75.3	50.5
4-Nov	83.0	65.3	71.3	52.2	33.0	116.9	76.0	71.0	46.6
11-Nov	83.0	65.6	68.5	49.1	34.0	105.0	72.5	62.2	38.5
18-Nov	80.0	65.5	66.8	48.4	32.0	109.2	71.9	60.5	38.3
25-Nov	79.0	69.2	64.5	46.4	31.0	112.0	71.8	61.2	36.6
2-Dec	76.0	64.3	60.6	40.7	25.0	105.7	73.6	47.9	27.6
9-Dec	75.0	59.0	61.0	41.6	26.0	94.5	71.8	48.8	28.8
16-Dec	77.0	64.7	58.2	40.1	22.0	88.2	67.8	46.8	27.9
23-Dec	73.0	60.4	55.6	37.2	11.0	88.2	67.6	44.1	24.8
31-Dec	72.0	62.1	54.3	36.5	13.0	95.2	66.6	41.3	24.8

DALLAS/LOVE TX

WMO No. 722580



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	8	641
FEB	23	451
MAR	65	268
APR	142	107
MAY	297	23
JUN	495	1
JUL	640	0
AUG	624	0
SEP	392	18
OCT	175	96
NOV	49	310
DEC	13	548
ANN	2922	2463



	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	8	-18907	63	-3204
FEB	75	-13640	74	-2181
MAR	245	-8720	493	-1183
APR	713	-3909	1690	-296
MAY	2320	-1070	6160	-5
JUN	5675	-76	11245	0
JUL	8665	-1	14039	0
AUG	8322	-11	12553	0
SEP	4053	-766	8297	-4
OCT	1140	-3563	2423	-144
NOV	136	-9864	797	-1104
DEC	17	-16453	181	-2480
ANN	31369	-76980	58015	-10601

Average Annual Solar Radiation – Nearest Available Site

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

City: FORT WORTH
 State: TX
 WBAN No: 3927
 Lat(N): 32.83
 Long(W): 97.05
 Elev(ft): 538

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.991
 Vert Gap: 0.66

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	1490	1770	1970	2190	2220	2010	1650	1330	990	830	1550
	Std Dev	86	91	117	139	132	110	121	112	117	114	82	62	30
	Minimum	710	1000	1230	1560	1610	2010	1990	1760	1420	1100	820	720	1500
	Maximum	1050	1360	1700	2100	2200	2370	2470	2200	1840	1510	1130	980	1610
	Diffuse	370	460	610	740	840	840	780	740	650	490	390	340	600
Clear Day	Global	1210	1540	1960	2340	2560	2630	2570	2370	2030	1620	1260	1100	1930
NORTH	Global	250	310	390	470	570	660	630	510	420	340	260	230	420
	Diffuse	250	310	390	460	510	540	520	480	410	340	260	230	390
Clear Day	Global	230	280	350	430	580	690	640	480	370	300	230	210	400
EAST	Global	560	710	850	950	1020	1120	1200	1120	930	790	610	530	870
	Diffuse	300	370	470	550	610	640	630	600	520	410	320	270	480
Clear Day	Global	830	1010	1200	1340	1400	1410	1390	1330	1210	1030	860	770	1150
SOUTH	Global	1260	1270	1160	930	740	680	720	890	1090	1290	1290	1260	1050
	Diffuse	400	450	520	550	550	550	540	560	550	490	420	370	500
Clear Day	Global	2030	1960	1660	1180	820	690	740	1010	1430	1800	1960	2000	1440
WEST	Global	600	740	900	1020	1100	1190	1190	1110	970	840	650	560	900
	Diffuse	310	370	480	570	630	660	640	600	530	420	320	270	480
Clear Day	Global	830	1010	1200	1340	1400	1410	1390	1330	1210	1030	860	770	1150

Average Annual Solar Heat and Illumination – Nearest Available Site

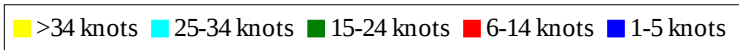
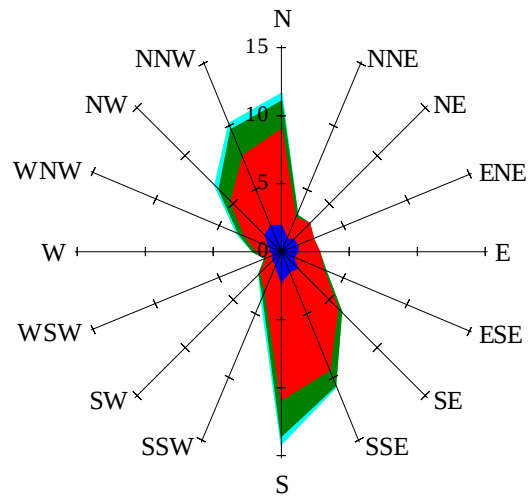
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	810	1070	1280	1440	1600	1630	1470	1190	950	680	560	1110
NORTH	Unshaded	170	210	270	320	370	420	400	340	290	230	180	160	280
	Shaded	150	180	230	280	320	360	350	300	250	200	160	140	240
EAST	Unshaded	390	490	600	680	720	800	850	800	660	560	430	370	610
	Shaded	330	410	490	540	570	630	670	640	530	450	360	310	490
SOUTH	Unshaded	940	910	780	580	450	410	420	530	710	910	950	940	710
	Shaded	880	730	410	320	330	330	330	340	340	620	860	910	530
WEST	Unshaded	420	520	640	730	780	850	850	790	690	590	450	390	640
	Shaded	350	430	520	580	620	680	670	640	560	500	380	330	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	35	76	92	79	41	36	80	105	103	77
	M.Cloudy	20	48	59	52	26	25	59	80	83	60
NORTH	M.Clear	9	14	16	15	10	24	16	17	18	17
	M.Cloudy	8	16	19	17	10	15	18	20	20	18
EAST	M.Clear	76	68	19	15	10	69	79	43	18	17
	M.Cloudy	25	37	20	17	10	33	53	36	20	18
SOUTH	M.Clear	31	64	78	67	35	11	19	34	34	19
	M.Cloudy	14	35	45	39	19	10	20	31	32	19
WEST	M.Clear	9	14	16	63	77	11	16	17	44	77
	M.Cloudy	8	16	19	37	34	10	18	20	39	55
M.Clear	(% hrs)	36	37	40	40	42	41	41	42	44	53
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	21	66	92	89	59	16	50	62	47	12
	M.Cloudy	13	43	64	65	43	9	29	38	28	8
NORTH	M.Clear	7	15	17	17	14	6	11	12	10	5
	M.Cloudy	6	15	19	19	15	4	11	14	11	4
EAST	M.Clear	54	77	41	17	14	48	51	12	10	5
	M.Cloudy	19	40	31	19	15	12	23	14	11	4
SOUTH	M.Clear	13	46	67	65	42	37	82	95	79	29
	M.Cloudy	7	28	44	45	28	10	32	41	32	10
WEST	M.Clear	7	15	17	46	75	6	11	15	55	40
	M.Cloudy	6	15	19	35	44	4	11	14	25	12
M.Clear	(% hrs)	46	46	45	46	51	40	40	42	43	45

Wind Summary - December, January, and February

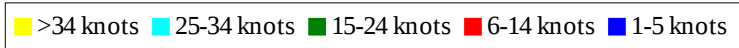
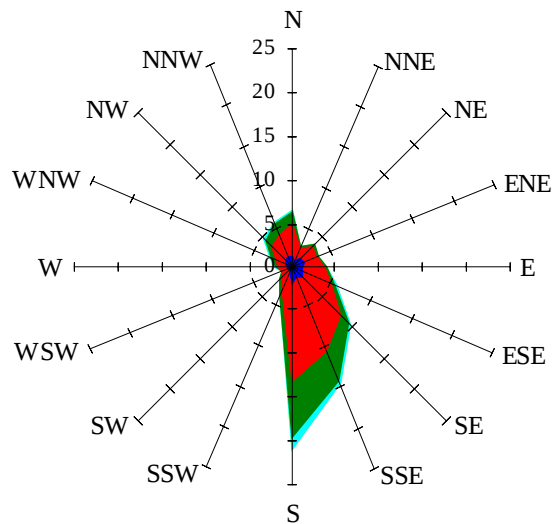
Labels of Percent Frequency on North Axis



Percent Calm = 13.33

Wind Summary - March, April, and May

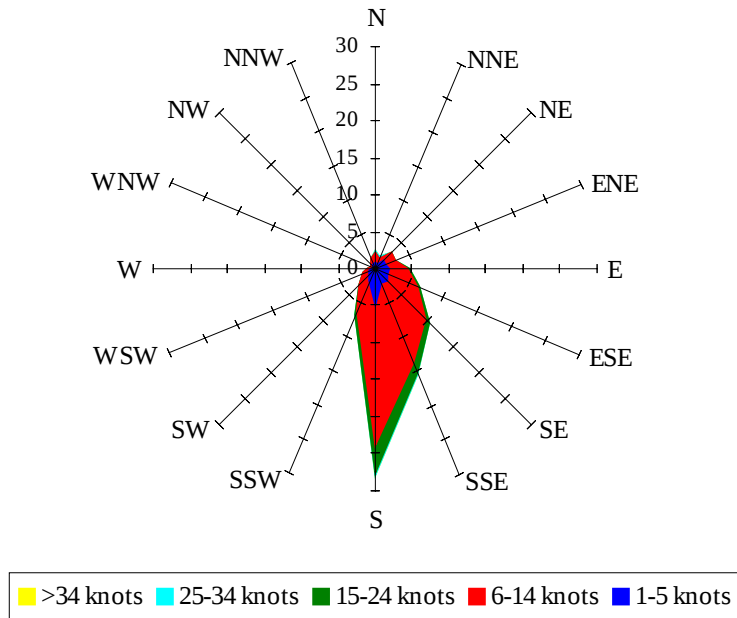
Labels of Percent Frequency on North Axis



Percent Calm = 8.95

Wind Summary - June, July, and August

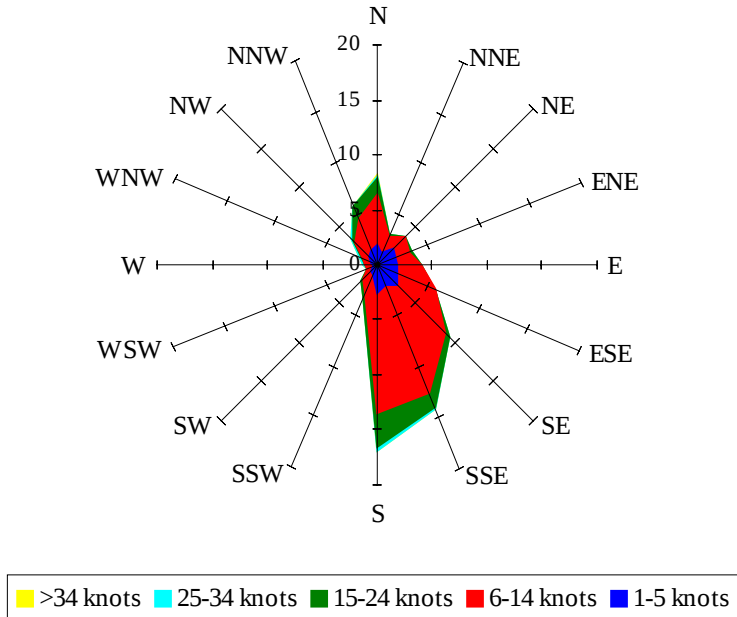
Labels of Percent Frequency on North Axis



Percent Calm = 9.97

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 13.74