

DALLAS NAS/HENSLEY TX

Latitude = 32.73 N

WMO No. 722585

Longitude = 96.97 W

Elevation = 492 feet

Period of Record = 1973 to 1996

Average Pressure = 29.46 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	75	89	5.5	S
0.4% Occurrence	100	75	94	6.7	S
1.0% Occurrence	98	75	95	7.2	S
2.0% Occurrence	96	75	98	7.5	S
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	31	28	17	7.0	N
99.0% Occurrence	25	22	12	8.2	N
99.6% Occurrence	19	17	9	9.9	N
Median of Extreme Lows	13	11	7	10.4	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	81	94	138	9.2	S
0.4% Occurrence	79	93	126	8.6	S
1.0% Occurrence	78	92	121	8.4	S
2.0% Occurrence	77	91	117	8.3	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	144	88	0.94	10.5	S
0.4% Occurrence	134	85	0.88	8.3	S
1.0% Occurrence	127	84	0.83	10.3	S
2.0% Occurrence	125	83	0.82	7.9	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		387	2122	1360	3100

Other Site Data

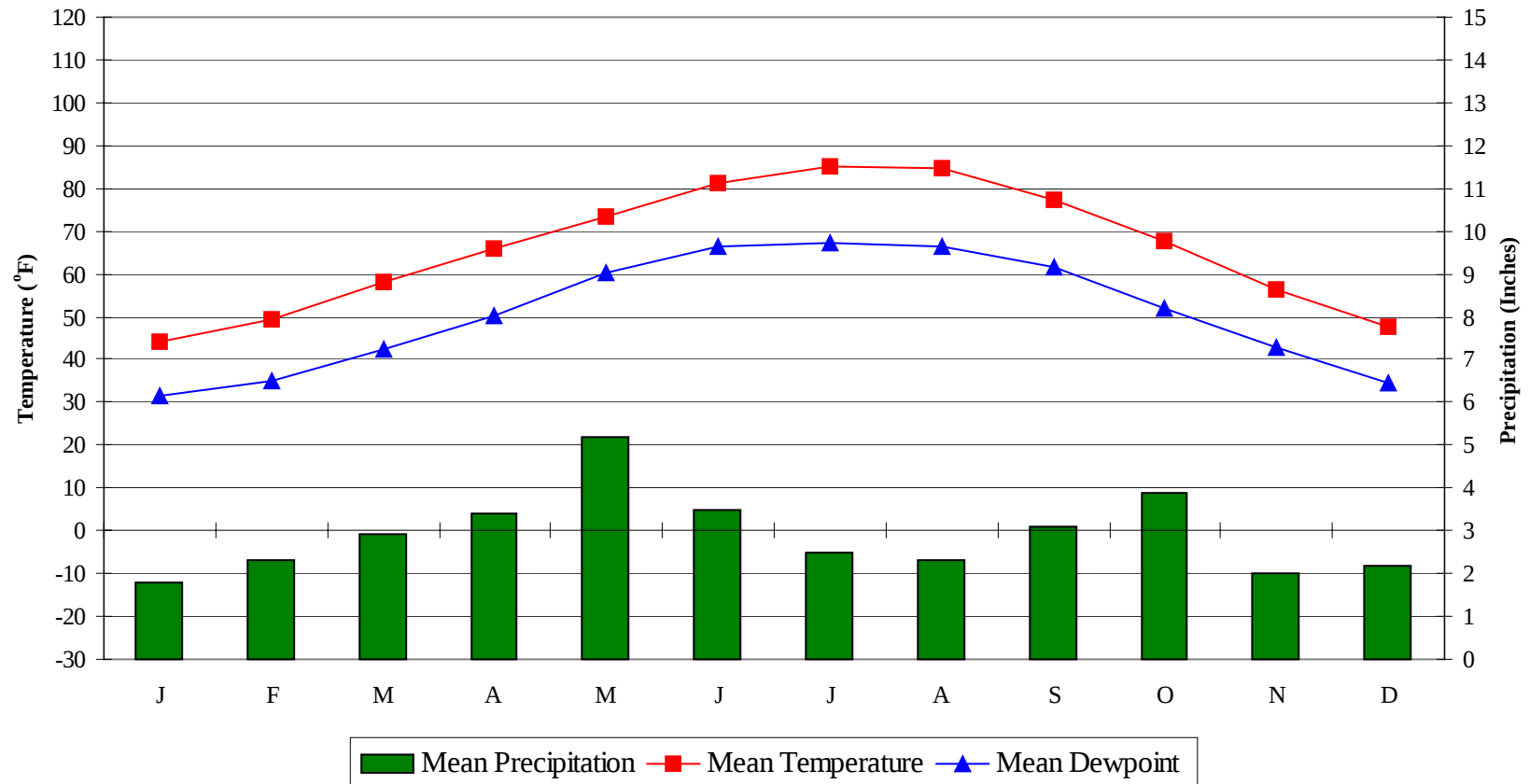
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
11	4.0	90	4.0 + 2.5
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
68.5	7	3	19

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

DALLAS NAS/HENSLEY TX

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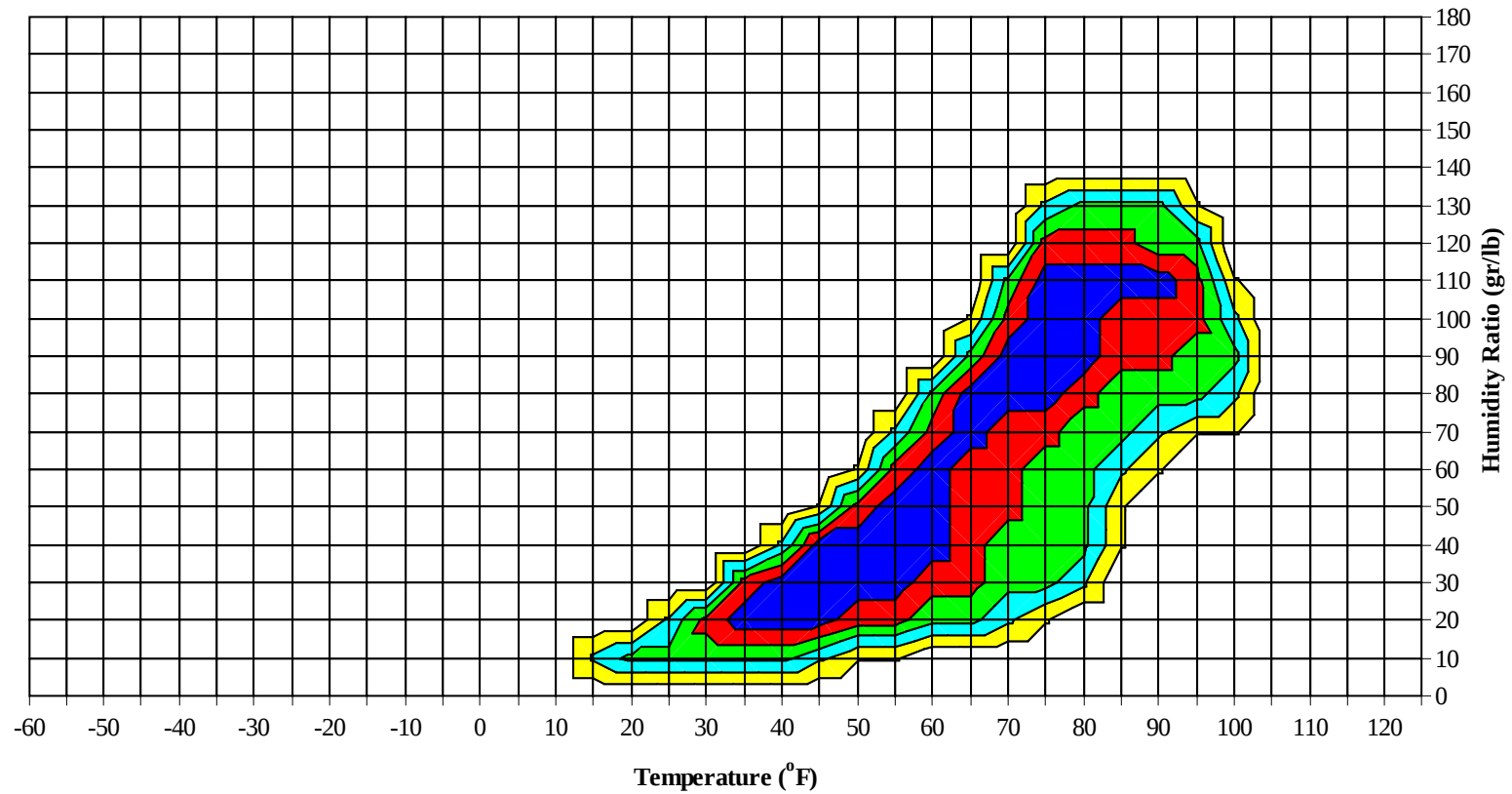
Average Annual Climate



DALLAS NAS/HENSLEY TX

WMO No. 722585

Long Term Psychrometric Summary

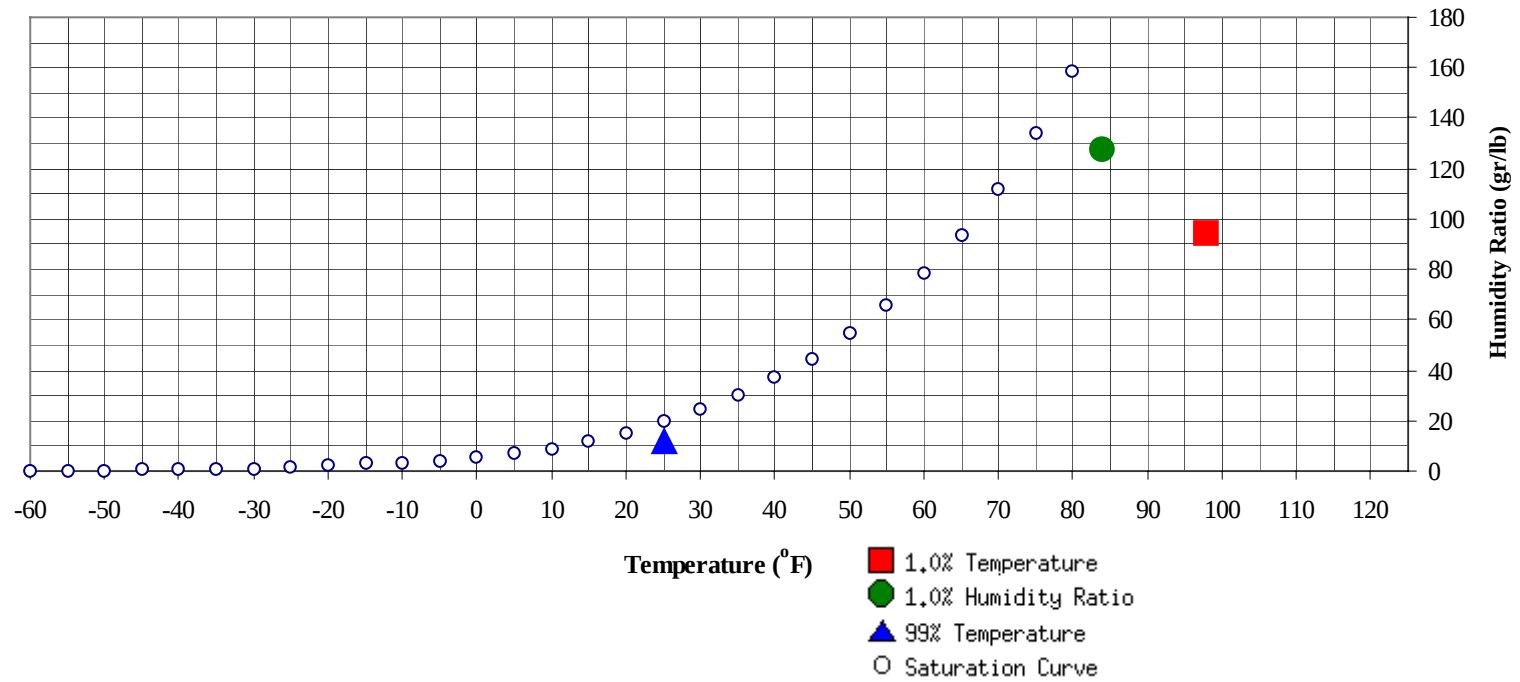


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

DALLAS NAS/HENSLEY TX

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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	11.6	7.8		127.4	83.8	76.1	73.2	40.1

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	98	94.4	74.9	38.4

DALLAS NAS/HENSLEY TX

WMO No. 722585

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	61.0		0		0	71.0
90 / 94							0	0	0	60.8		0	0	0	64.3
85 / 89							1	0	1	60.2		2	1	3	64.3
80 / 84		0		0	61.0		3	1	4	59.3		11	3	14	63.3
75 / 79		3	1	4	59.0		9	3	12	58.1	0	23	13	36	62.1
70 / 74	0	8	2	10	57.5	0	16	8	24	57.5	7	34	29	70	60.7
65 / 69	2	16	8	26	55.7	5	24	19	48	55.9	22	42	43	107	57.7
60 / 64	6	23	18	47	53.0	13	28	26	67	52.9	34	40	45	119	54.0
55 / 59	13	28	25	66	49.4	23	30	33	86	49.6	40	36	39	115	49.7
50 / 54	20	31	34	85	45.5	26	27	32	85	45.6	44	26	34	104	45.7
45 / 49	31	35	41	107	41.7	36	24	33	93	41.5	41	16	21	78	41.8
40 / 44	41	35	41	117	37.3	42	24	28	94	37.6	30	9	11	50	37.3
35 / 39	50	29	35	114	33.4	32	16	19	67	33.2	19	5	5	29	33.3
30 / 34	42	22	23	87	29.1	24	10	11	45	29.1	7	2	2	11	28.7
25 / 29	24	9	13	46	24.4	13	6	6	25	24.5	3	1	1	5	23.8
20 / 24	11	5	5	21	19.7	6	2	2	10	20.0	1	1	0	2	20.4
15 / 19	6	2	2	10	15.4	3	2	2	7	15.3	0		0	0	15.8
10 / 14	2	1	0	3	10.7	1	0	0	1	11.9					
5 / 9	0	0	0	0	6.7	0			0	8.0					
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 NAS/HENSLEY TX

WMO No. 722585

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	74.2
105 / 109												1	0	1	76.4
100 / 104							0		0	73.4		2	1	3	76.8
95 / 99		0		0	66.0		1	0	1	74.7		16	6	22	76.1
90 / 94		2	0	2	67.5		13	4	17	73.4	0	57	26	83	75.0
85 / 89		8	2	10	68.2	0	41	19	60	72.0	1	74	53	128	73.4
80 / 84	0	28	11	39	66.4	2	63	44	108	69.9	32	55	73	160	71.9
75 / 79	2	52	36	90	64.3	36	59	63	158	68.0	104	23	50	177	70.1
70 / 74	27	54	55	136	62.5	71	38	57	166	65.3	68	10	24	102	66.8
65 / 69	49	39	49	137	59.1	67	20	38	125	61.5	28	2	6	36	63.0
60 / 64	48	26	38	112	54.9	42	8	16	66	57.3	6	0	0	6	58.0
55 / 59	45	18	25	88	50.5	19	3	6	28	52.5	1			1	53.5
50 / 54	35	9	15	59	46.3	9	1	2	12	48.7					
45 / 49	22	3	6	31	42.2	2		0	2	44.4					
40 / 44	9	1	2	12	38.4	0			0	41.0					
35 / 39	3	0	0	3	34.0										
30 / 34	0			0	29.9										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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DALLAS NAS/HENSLEY TX

WMO No. 722585

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		0		0	78.0										
105 / 109		2	1	3	75.4		1	0	1	74.5					
100 / 104		16	5	21	75.3		14	4	18	75.1		1	0	1	74.0
95 / 99		54	22	76	75.1		58	23	81	74.8		15	4	19	73.9
90 / 94	0	77	51	128	74.8	0	71	46	117	74.2		41	15	56	73.2
85 / 89	10	57	71	138	73.5	10	56	69	135	73.0	1	56	36	93	72.0
80 / 84	83	29	62	174	72.2	81	29	61	171	71.6	18	51	58	127	70.3
75 / 79	123	11	29	163	70.8	110	13	35	158	70.2	77	34	56	167	68.8
70 / 74	30	2	7	39	68.4	41	5	9	55	67.1	65	20	34	119	65.3
65 / 69	3	0	0	3	63.2	6	1	1	8	61.9	35	11	18	64	60.5
60 / 64	0			0	58.8	1			1	56.6	20	6	11	37	56.1
55 / 59											15	4	6	25	52.4
50 / 54											6	1	2	9	48.1
45 / 49											3	0	0	3	44.2
40 / 44											0			0	41.5
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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DALLAS NAS/HENSLEY TX

WMO No. 722585

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	70.0										
90 / 94		7	1	8	69.6		0		0	62.0					
85 / 89		24	5	29	68.7		2	0	2	66.4		0		0	57.8
80 / 84	1	41	17	59	66.8		9	1	10	65.7		1	0	1	58.6
75 / 79	11	49	39	99	65.2	1	21	7	29	64.4		5	1	6	61.3
70 / 74	34	45	54	133	62.6	10	31	24	65	63.0	1	14	4	19	59.6
65 / 69	49	35	53	137	59.6	22	35	31	88	59.1	8	23	14	45	57.9
60 / 64	54	24	38	116	55.4	23	36	36	95	54.6	11	28	24	63	54.0
55 / 59	41	12	23	76	51.1	32	33	40	105	50.3	15	36	30	81	49.6
50 / 54	31	7	12	50	47.1	40	30	39	109	46.1	26	37	40	103	45.6
45 / 49	18	2	5	25	42.8	40	23	32	95	42.2	40	38	46	123	41.7
40 / 44	7	1	1	9	38.9	31	12	18	61	37.4	47	29	38	113	37.8
35 / 39	1	0	1	2	33.3	25	5	8	38	33.2	44	20	25	88	33.2
30 / 34	1		0	1	28.9	11	3	4	18	29.1	30	9	15	54	29.0
25 / 29	0			0	24.3	4	1	1	6	24.1	13	5	6	24	24.0
20 / 24						1	0	0	1	20.4	6	2	3	11	19.4
15 / 19						0			0	15.8	3	2	2	7	15.0
10 / 14											2	1	1	4	10.5
5 / 9											1	0	0	1	5.7
0 / 4											0	0		0	0.1

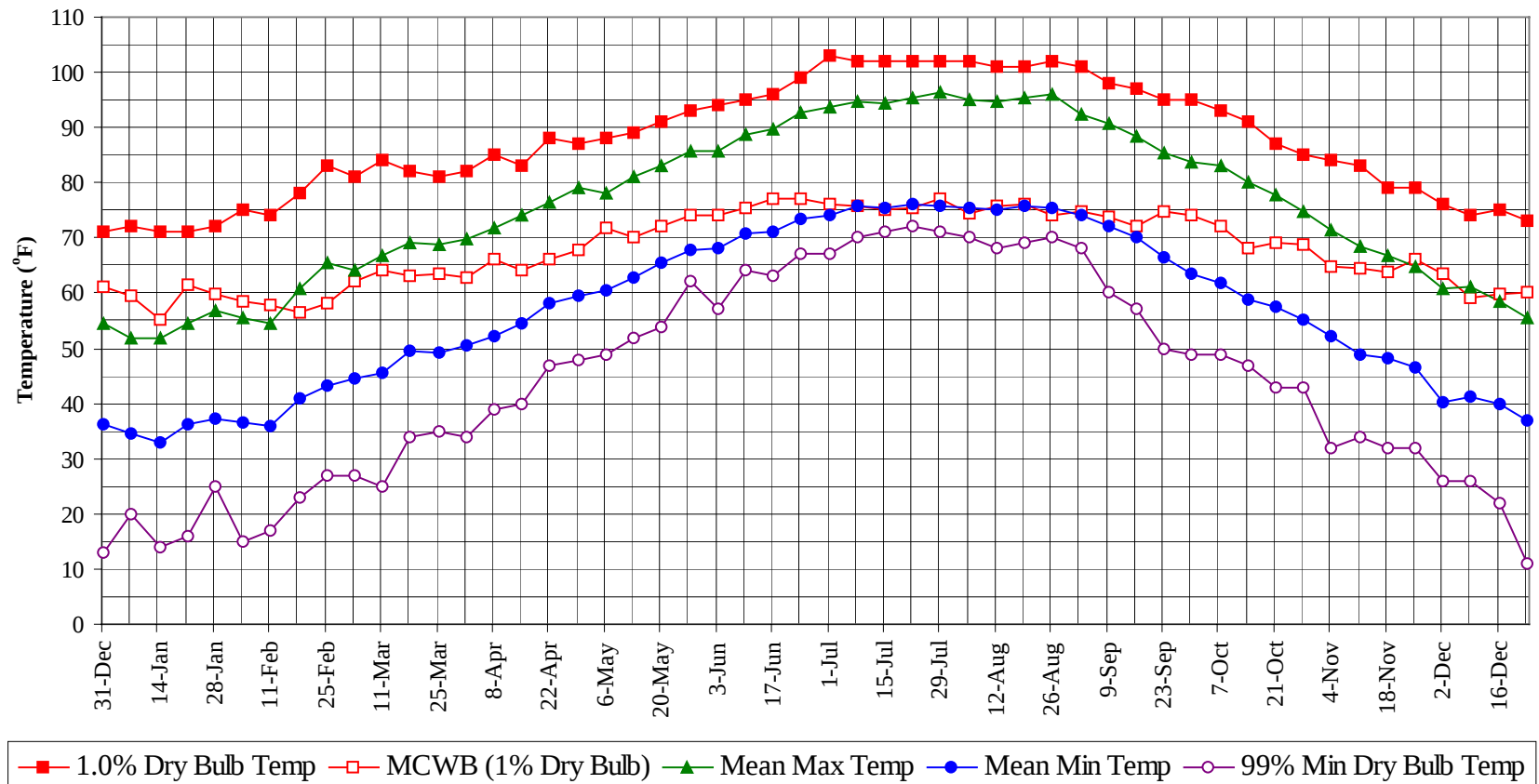
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

DALLAS NAS/HENSLEY TX**WMO No. 722585****Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)****Period of Record = 1973 to 1996**

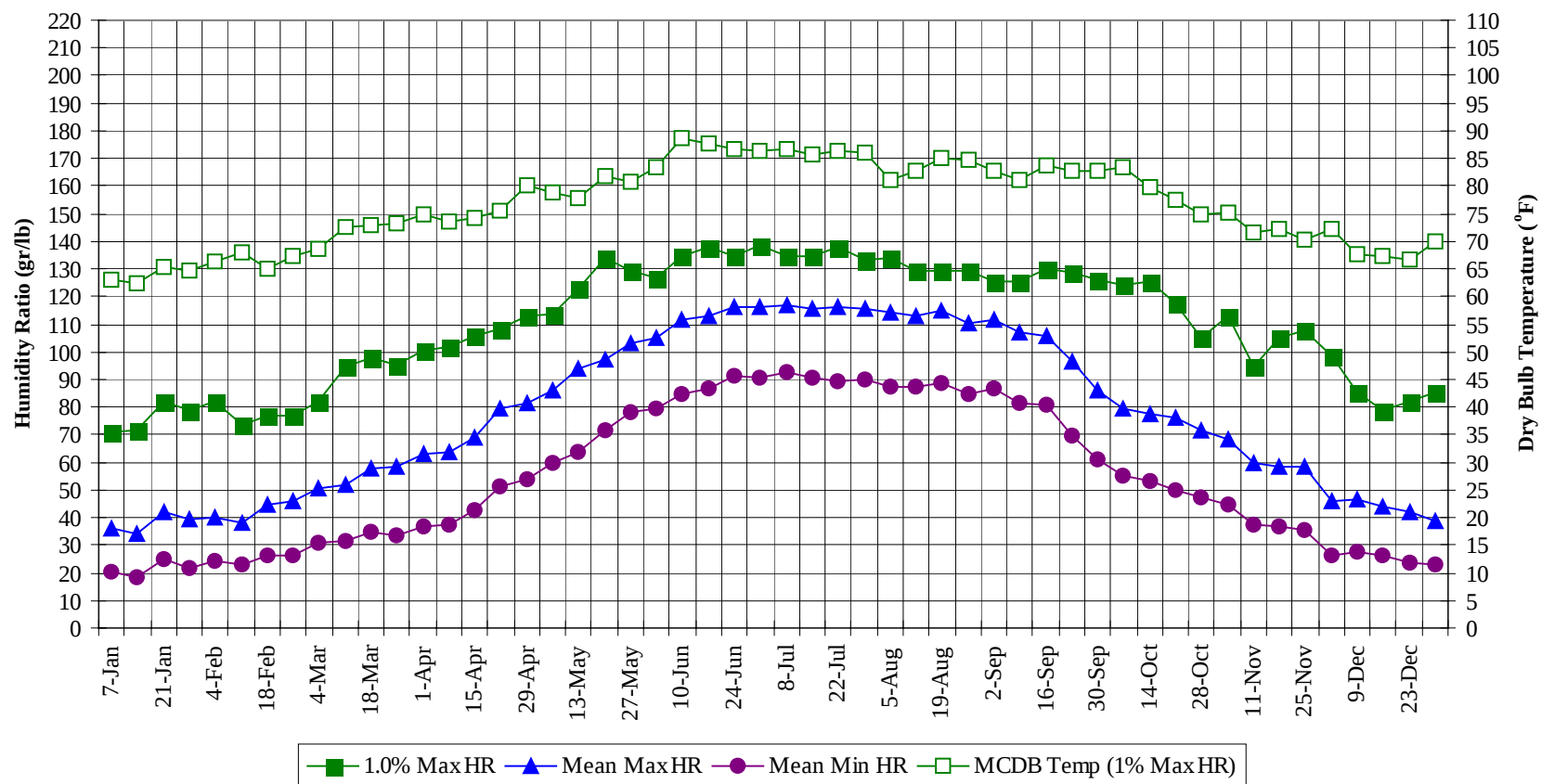
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
110 / 114		0	0	0	74.8
105 / 109		3	1	4	75.5
100 / 104		34	9	43	75.3
95 / 99		146	55	201	74.9
90 / 94	0	269	144	413	74.2
85 / 89	22	321	256	599	72.6
80 / 84	217	319	331	867	70.5
75 / 79	466	301	332	1099	68.2
70 / 74	353	277	308	938	64.0
65 / 69	297	249	281	827	59.3
60 / 64	260	219	253	732	54.7
55 / 59	243	199	226	668	50.2
50 / 54	237	168	209	614	46.0
45 / 49	232	142	184	558	41.9
40 / 44	204	111	140	455	37.6
35 / 39	171	75	93	339	33.3
30 / 34	115	46	55	216	29.0
25 / 29	57	22	27	106	24.3
20 / 24	24	10	10	44	19.7
15 / 19	12	5	6	23	15.2
10 / 14	6	2	2	10	10.8
5 / 9	1	0	0	1	5.8
0 / 4	0	0		0	0.1

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Annual Summary of Temperatures

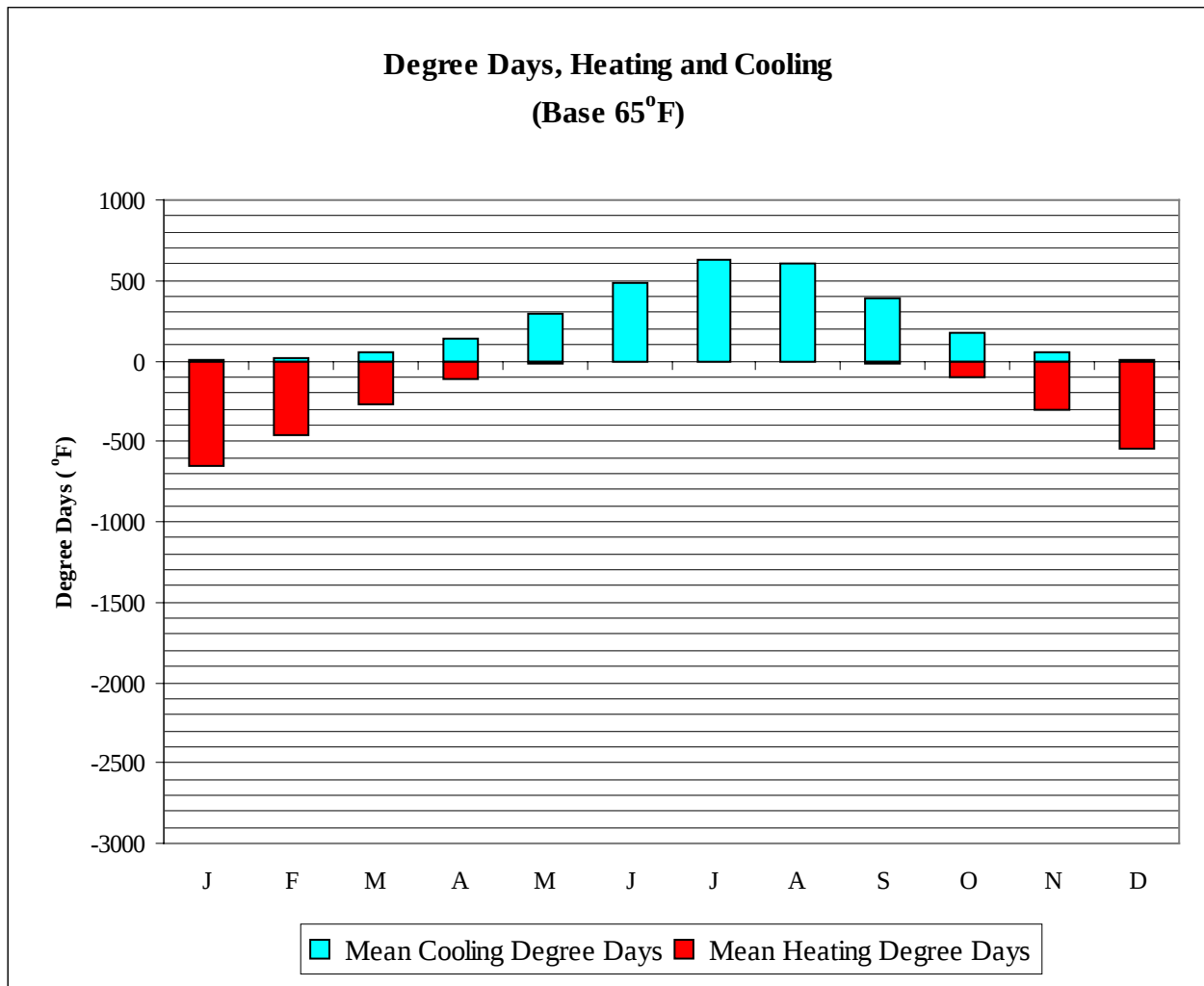


Long Term Humidity and Dry Bulb Temperature Summary

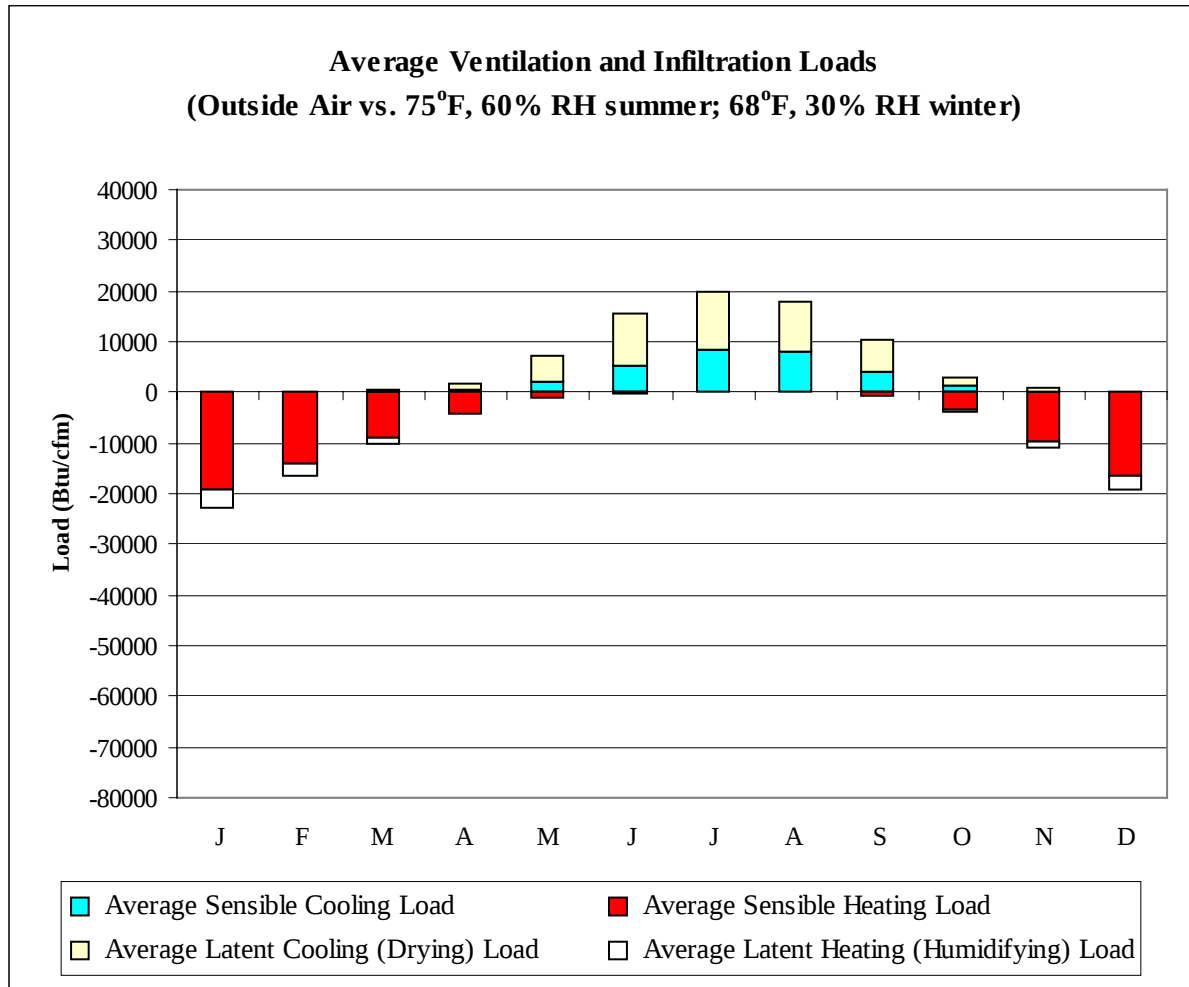


DALLAS NAS/HENSLEY TX**WMO No. 722585****Long Term Dry Bulb Temperature and Humidity Summary**

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	59.6	51.8	34.5	20.0	70.7	63.1	36.0	20.5
14-Jan	71.0	55.1	51.9	32.8	14.0	71.4	62.4	34.0	18.7
21-Jan	71.0	61.6	54.7	36.2	16.0	81.9	65.3	41.9	24.8
28-Jan	72.0	59.7	56.8	37.1	25.0	79.1	64.8	39.5	21.9
4-Feb	75.0	58.5	55.4	36.7	15.0	81.9	66.2	40.1	24.2
11-Feb	74.0	57.7	54.6	35.8	17.0	73.5	67.9	38.2	22.7
18-Feb	78.0	56.4	60.9	41.0	23.0	77.0	64.9	44.5	26.0
25-Feb	83.0	58.3	65.4	43.2	27.0	77.0	67.3	46.1	26.5
4-Mar	81.0	62.3	64.3	44.6	27.0	81.9	68.5	50.5	31.1
11-Mar	84.0	64.1	66.7	45.7	25.0	94.5	72.7	52.2	31.3
18-Mar	82.0	63.0	69.1	49.5	34.0	98.0	72.8	57.7	35.1
25-Mar	81.0	63.6	68.8	49.1	35.0	95.2	73.3	58.5	33.7
1-Apr	82.0	62.9	70.0	50.5	34.0	100.8	74.9	62.8	36.9
8-Apr	85.0	66.1	71.8	52.0	39.0	101.5	73.6	63.5	37.2
15-Apr	83.0	64.3	74.2	54.4	40.0	105.7	74.2	69.1	43.0
22-Apr	88.0	66.1	76.6	58.2	47.0	108.5	75.6	79.2	51.0
29-Apr	87.0	67.9	79.0	59.4	48.0	112.7	80.2	81.3	54.0
6-May	88.0	71.7	78.0	60.4	49.0	113.4	78.9	85.9	59.5
13-May	89.0	70.2	81.1	62.8	52.0	122.5	77.7	94.1	63.8
20-May	91.0	72.0	83.1	65.4	54.0	133.7	81.8	97.0	71.8
27-May	93.0	74.1	85.8	67.8	62.0	129.5	80.8	102.8	78.2
3-Jun	94.0	74.2	85.9	68.2	57.0	126.7	83.3	104.8	79.2
10-Jun	95.0	75.6	88.8	70.8	64.0	134.4	88.8	111.9	84.7
17-Jun	96.0	77.1	89.7	71.2	63.0	137.9	87.7	112.7	86.4
24-Jun	99.0	77.1	92.6	73.6	67.0	134.4	86.6	116.2	91.2
1-Jul	103.0	76.0	93.6	74.0	67.0	138.6	86.4	116.5	90.6
8-Jul	102.0	75.9	94.8	75.6	70.0	134.4	86.8	116.6	92.4
15-Jul	102.0	75.0	94.4	75.6	71.0	134.4	85.6	115.5	90.6
22-Jul	102.0	75.6	95.5	76.0	72.0	137.9	86.4	116.1	89.6
29-Jul	102.0	77.2	96.4	75.7	71.0	133.0	85.9	115.6	89.9
5-Aug	102.0	74.5	95.0	75.5	70.0	133.7	81.2	114.4	87.6
12-Aug	101.0	75.9	94.6	75.0	68.0	129.5	82.7	113.0	87.2
19-Aug	101.0	76.0	95.2	75.9	69.0	129.5	85.1	114.8	88.7
26-Aug	102.0	74.0	95.9	75.6	70.0	129.5	84.7	110.7	84.7
2-Sep	101.0	74.7	92.5	74.1	68.0	125.3	82.7	111.7	86.4
9-Sep	98.0	73.9	90.7	72.0	60.0	125.3	81.1	107.1	81.2
16-Sep	97.0	72.1	88.4	70.2	57.0	130.2	83.8	106.0	80.6
23-Sep	95.0	74.8	85.5	66.6	50.0	128.8	82.6	96.8	69.9
30-Sep	95.0	74.1	83.7	63.3	49.0	126.0	82.6	86.0	61.0
7-Oct	93.0	72.2	83.1	61.7	49.0	123.9	83.3	79.7	55.1
14-Oct	91.0	68.2	80.2	59.0	47.0	125.3	79.7	77.3	52.9
21-Oct	87.0	69.2	77.7	57.5	43.0	117.6	77.4	76.1	49.8
28-Oct	85.0	68.9	74.7	55.1	43.0	105.0	74.9	71.7	47.6
4-Nov	84.0	64.7	71.6	52.0	32.0	112.7	75.2	68.3	44.9
11-Nov	83.0	64.4	68.4	48.8	34.0	94.5	71.5	59.7	37.2
18-Nov	79.0	63.7	66.8	48.2	32.0	105.0	72.1	58.5	37.0
25-Nov	79.0	66.2	64.7	46.4	32.0	107.8	70.3	58.1	35.6
2-Dec	76.0	63.5	60.8	40.3	26.0	98.7	72.3	46.2	26.2
9-Dec	74.0	59.0	61.2	41.3	26.0	85.4	67.7	46.3	27.8
16-Dec	75.0	59.9	58.5	40.0	22.0	79.1	67.3	43.9	26.3
23-Dec	73.0	60.0	55.6	36.8	11.0	81.9	66.7	41.8	23.7
31-Dec	71.0	61.1	54.5	36.1	13.0	85.4	70.1	38.9	22.9



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	7	654
FEB	20	462
MAR	57	275
APR	134	112
MAY	289	23
JUN	482	1
JUL	625	0
AUG	607	0
SEP	389	19
OCT	175	96
NOV	48	310
DEC	11	550
ANN	2844	2502



	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	-19263	21	-3511
FEB	67	-13950	9	-2355
MAR	196	-8954	322	-1208
APR	617	-4050	1251	-292
MAY	2187	-1095	5065	-4
JUN	5381	-81	10294	0
JUL	8282	-3	11447	0
AUG	7919	-11	9948	0
SEP	3972	-797	6533	-6
OCT	1150	-3554	1906	-198
NOV	150	-9847	585	-1243
DEC	17	-16502	58	-2716
ANN	29946	-78107	47439	-11533

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

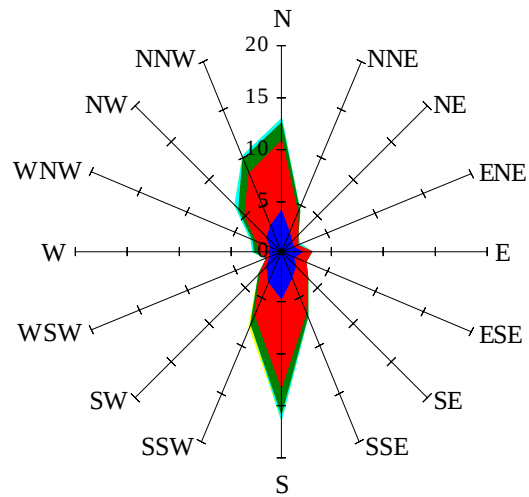
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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

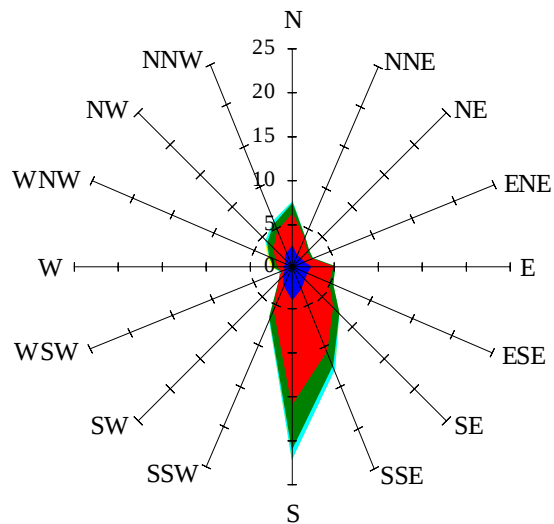
Labels of Percent Frequency on North Axis



Percent Calm = 12.23

Wind Summary - March, April, and May

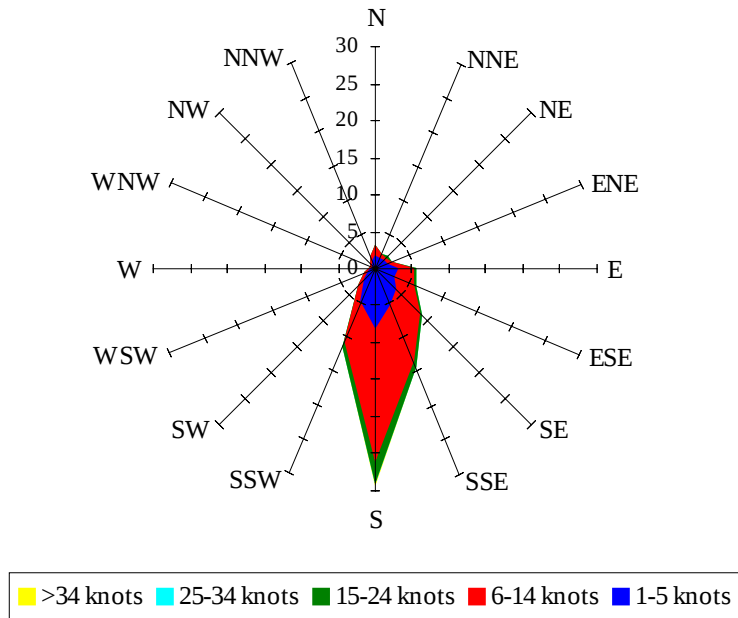
Labels of Percent Frequency on North Axis



Percent Calm = 7.44

Wind Summary - June, July, and August

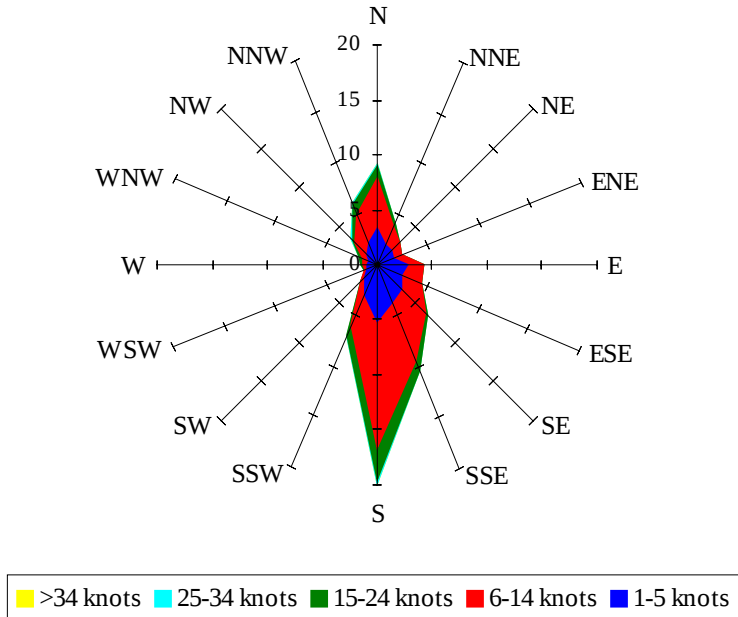
Labels of Percent Frequency on North Axis



Percent Calm = 7.91

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 12.82