

TEXARKANA/WEBB AR

Latitude = 33.45 N

WMO No. 723418

Longitude = 93.98 W

Elevation = 390 feet

Period of Record = 1973 to 1996

Average Pressure = 29.58 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	100	76	100	8.9	S
0.4% Occurrence	98	77	104	8.7	S
1.0% Occurrence	95	77	109	8.6	S
2.0% Occurrence	93	77	113	8.5	S
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	30	28	17	7.2	NE
99.0% Occurrence	25	23	13	7.9	E
99.6% Occurrence	20	18	11	7.9	NNE
Median of Extreme Lows	16	14	9	8.2	NW
	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	92	145	7.8	S
0.4% Occurrence	80	91	135	7.8	S
1.0% Occurrence	79	90	131	7.9	S
2.0% Occurrence	78	89	127	8.0	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	159	88	1.04	6.4	S
0.4% Occurrence	143	86	0.94	6.9	S
1.0% Occurrence	137	85	0.90	7.0	S
2.0% Occurrence	133	84	0.88	7.2	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		195	1618	1641	3106

Other Site Data

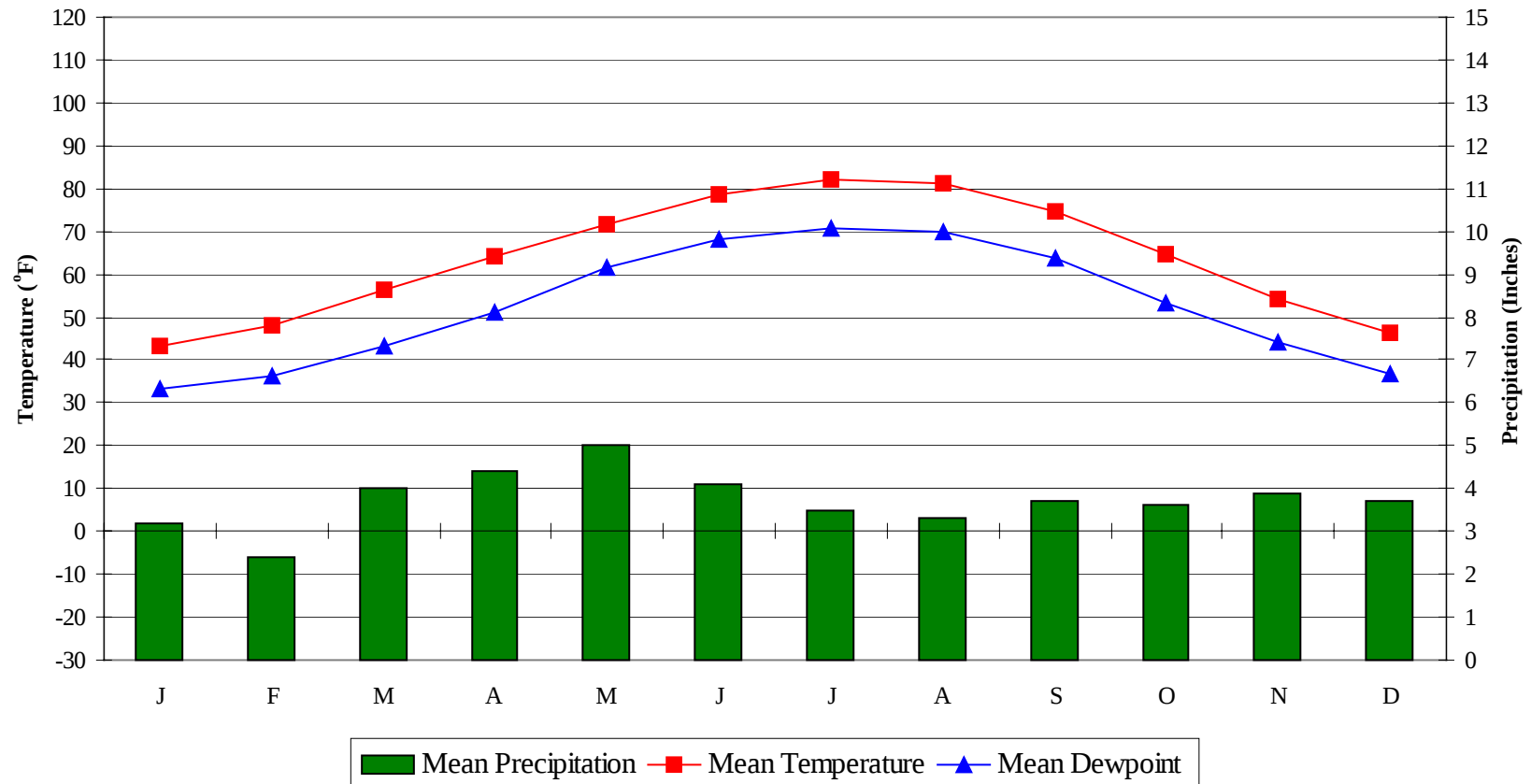
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
11	3.8	90	5.4 + 1.8
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
66.4	N/A	N/A	24

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

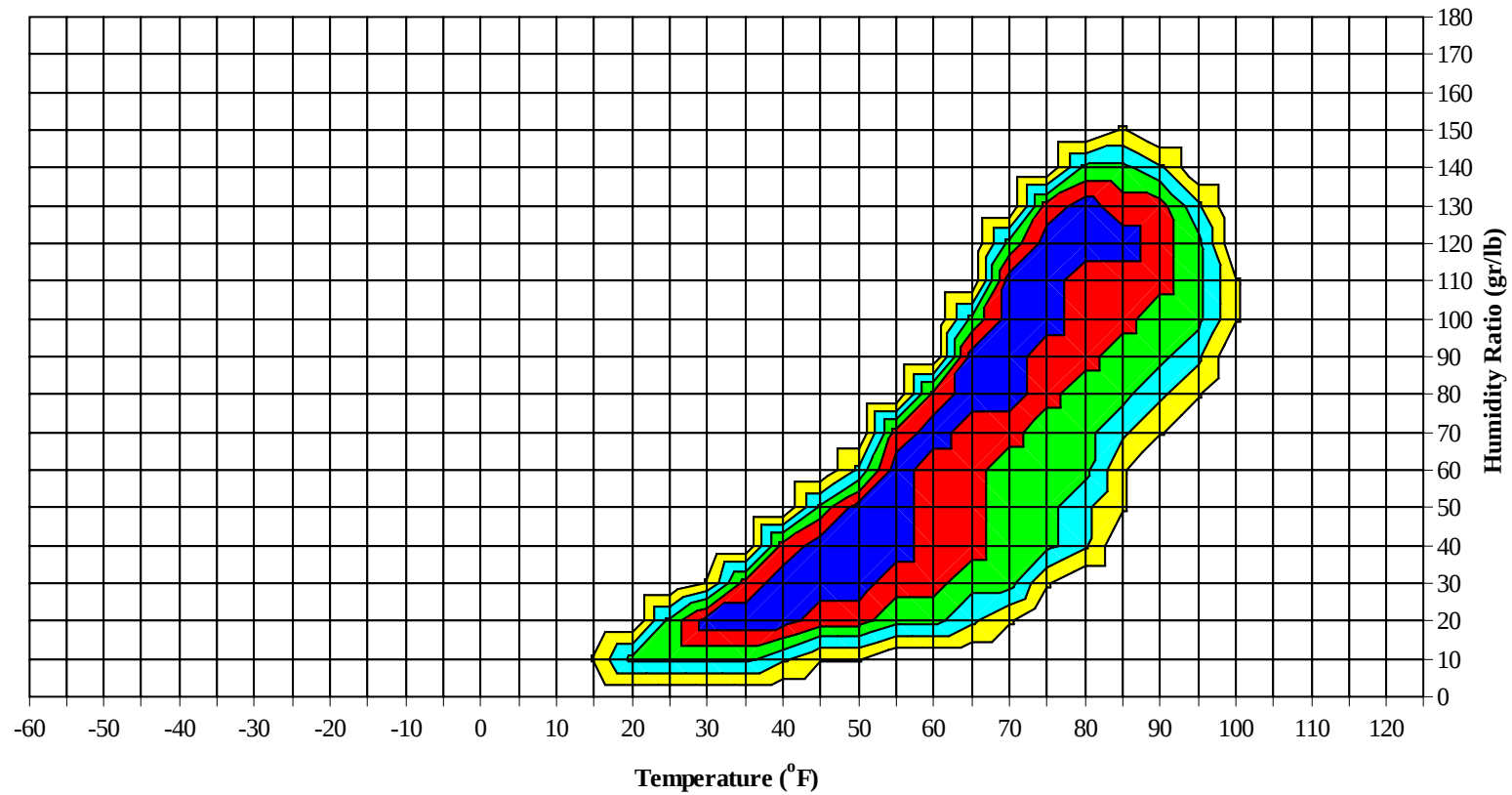
TEXARKANA/WEBB AR

WMO No. 723418

Average Annual Climate



Long Term Psychrometric Summary

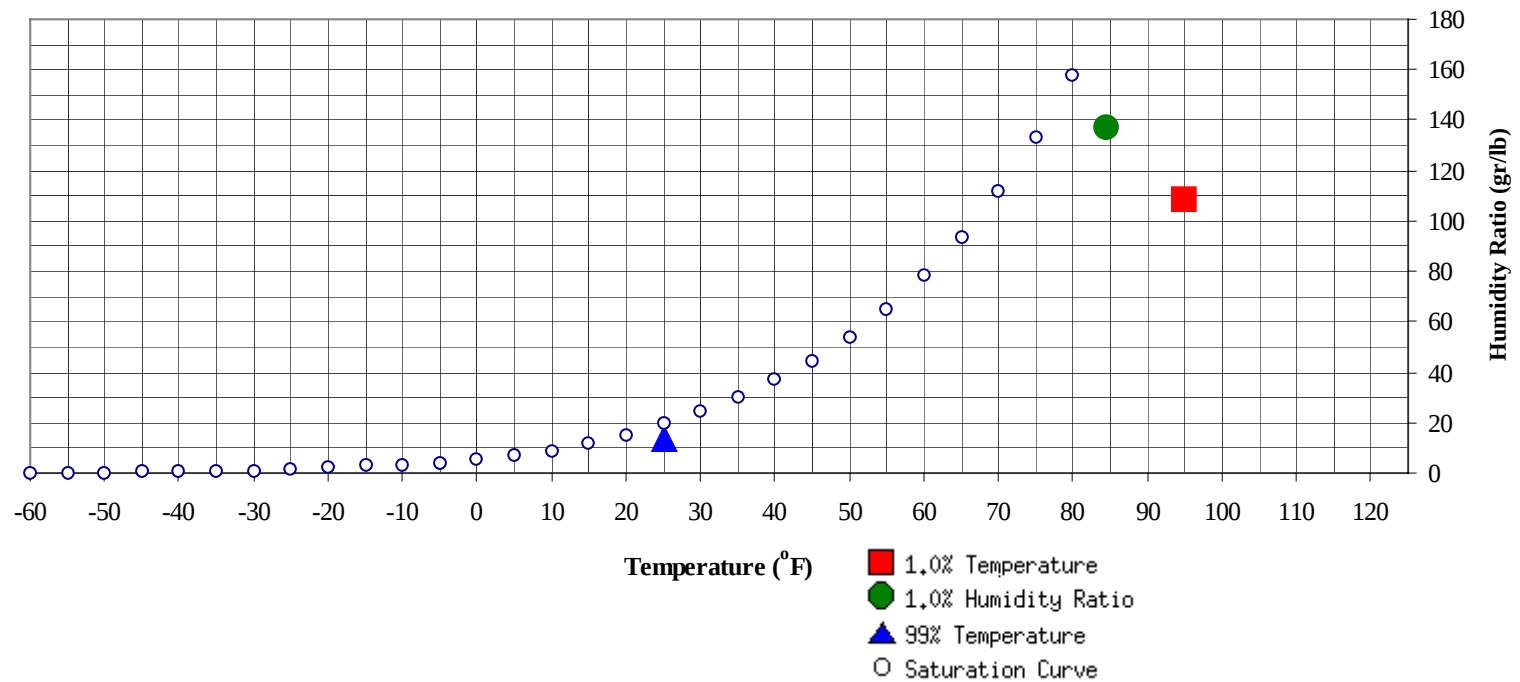


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

TEXARKANA/WEBB AR

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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	25	13.2	8.0		137.2	84.5	78.3	75.9	41.8

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	95	108.7	76.5	39.9

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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															
90 / 94															
85 / 89							0	0	0	64.3		0		0	67.0
80 / 84							2	0	2	61.3		1	0	1	66.0
75 / 79		1	0	1	62.8		7	2	9	61.3		8	2	10	64.1
70 / 74		6	2	8	59.9	0	14	7	21	59.2	0	25	12	37	62.6
65 / 69	2	14	8	24	58.2	6	20	15	41	57.9	5	32	23	60	61.5
60 / 64	8	20	14	42	55.4	12	27	22	61	54.3	18	37	35	90	58.2
55 / 59	10	27	20	56	50.6	20	30	32	82	50.6	29	41	42	112	54.8
50 / 54	18	33	29	79	46.6	27	30	34	91	46.7	37	36	40	113	50.8
45 / 49	25	36	39	99	42.5	33	27	33	93	42.4	41	30	38	109	46.5
40 / 44	43	43	46	132	38.3	37	25	30	92	38.1	43	17	26	86	42.5
35 / 39	51	34	45	130	33.8	35	22	23	80	33.5	35	12	18	65	38.4
30 / 34	49	22	28	100	29.4	30	11	16	57	29.5	25	6	8	39	34.2
25 / 29	24	8	11	43	24.9	14	5	5	24	24.6	9	2	3	14	29.8
20 / 24	11	3	5	19	20.3	8	2	3	13	20.6	4	1	1	6	24.8
15 / 19	6	1	1	8	15.6	2	0	0	2	16.2	1		0	1	19.1
10 / 14	2	0	0	2	11.0	1	0		1	11.0	0			0	16.0
5 / 9	0	0	0	0	4.1										
0 / 4	0			0	3.0										
-5 / -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.

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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	77.4
95 / 99							0	0	0	73.7		8	2	10	76.2
90 / 94		1	0	1	67.1		4	1	5	74.1	0	45	14	59	76.3
85 / 89		4	1	5	68.6		37	11	48	73.0	1	82	34	117	74.6
80 / 84		29	10	39	66.7	1	63	30	94	70.7	15	58	58	131	73.2
75 / 79	1	43	23	67	64.7	16	59	57	132	68.8	75	29	70	174	71.7
70 / 74	16	57	50	123	63.0	58	45	61	164	66.5	89	15	47	151	68.9
65 / 69	41	44	51	136	60.2	75	26	51	152	63.3	44	4	13	61	64.6
60 / 64	47	27	40	114	56.3	51	11	25	87	58.8	13	0	2	15	59.5
55 / 59	44	18	33	95	51.6	31	3	10	44	54.1	3		0	3	55.3
50 / 54	43	12	20	75	47.7	13	1	2	16	49.9	0			0	
45 / 49	27	3	8	38	43.5	3	0	0	3	46.1					
40 / 44	13	2	3	18	39.5	0			0	42.7					
35 / 39	5	0	1	6	35.3										
30 / 34	1		0	1	31.3										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															

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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		0		0	77.5										
100 / 104		5	1	6	77.3		5	1	6	75.9		2	0	2	73.6
95 / 99		29	9	38	77.0		32	9	41	76.5		7	1	8	74.4
90 / 94		73	27	100	77.0		70	22	92	76.5		30	7	37	74.8
85 / 89	3	77	49	129	76.1	2	71	43	116	75.3		56	17	73	73.5
80 / 84	39	40	77	156	74.6	32	44	70	145	73.9	4	53	41	98	71.6
75 / 79	117	17	60	194	73.1	103	19	65	187	72.6	48	38	62	148	70.7
70 / 74	76	6	23	105	70.2	82	7	33	122	69.9	76	30	54	160	67.9
65 / 69	12	1	2	15	65.4	23	0	4	27	64.9	44	13	29	86	63.0
60 / 64	1		0	1	61.1	5		1	6	59.8	32	7	17	56	58.3
55 / 59	0			0	59.0	1			1	55.6	22	3	10	35	53.9
50 / 54						0			0	50.0	11	0	2	13	49.5
45 / 49											4		0	4	45.7
40 / 44											0			0	40.7
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															

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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															
90 / 94		3	0	3	71.6										
85 / 89		17	2	19	70.0		0		0	72.0					
80 / 84	0	34	8	42	68.0		5	0	5	65.9		0		0	66.0
75 / 79	5	47	25	76	66.3	0	17	3	20	65.4	0	3	0	3	66.4
70 / 74	22	50	47	118	64.3	9	28	17	54	64.4	1	10	4	15	63.9
65 / 69	43	42	52	136	60.9	17	35	28	79	60.6	10	21	14	45	61.2
60 / 64	47	28	47	122	56.9	25	34	35	93	56.5	14	26	20	60	56.1
55 / 59	47	16	34	97	52.5	28	39	34	100	51.6	17	34	23	74	51.2
50 / 54	40	8	21	69	48.5	35	36	41	111	47.2	21	38	36	95	46.6
45 / 49	27	3	10	40	44.5	42	24	37	103	42.9	30	35	42	107	42.5
40 / 44	14	0	3	17	40.7	37	13	25	75	38.9	49	39	47	135	38.2
35 / 39	4	0	0	4	35.8	28	7	15	50	34.4	45	22	32	99	34.0
30 / 34	0		0	0	28.6	16	2	4	22	30.1	35	9	15	59	29.6
25 / 29	0			0	25.7	4	0	1	5	26.0	15	5	7	27	24.7
20 / 24						1		0	1	21.2	7	2	4	13	20.2
15 / 19						0			0	17.7	4	2	2	8	15.6
10 / 14											2	0	1	3	10.5
5 / 9											0	0	0	0	5.8
0 / 4											0		0	0	2.3
-5 / -1											0			0	-1.0

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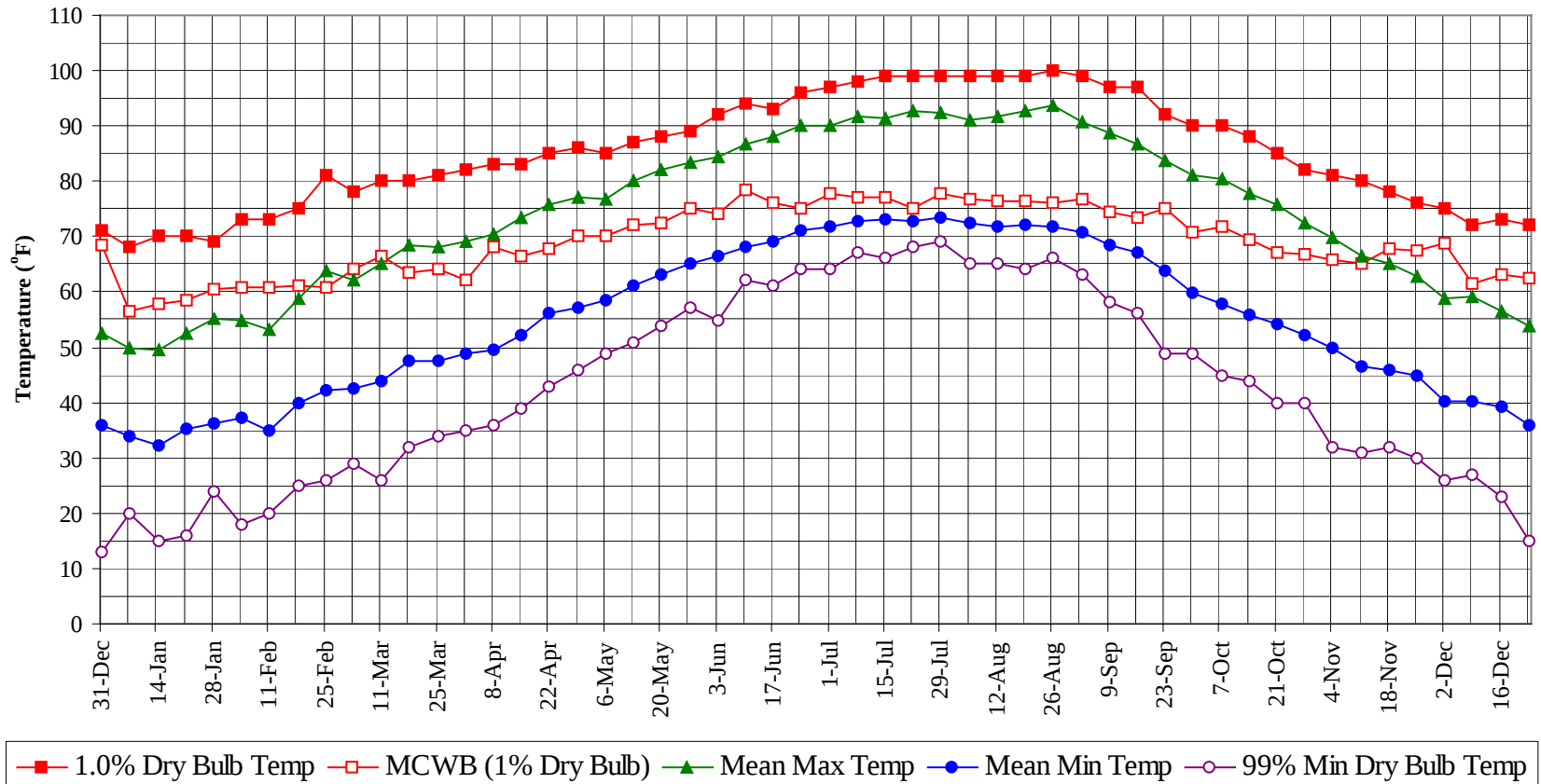
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

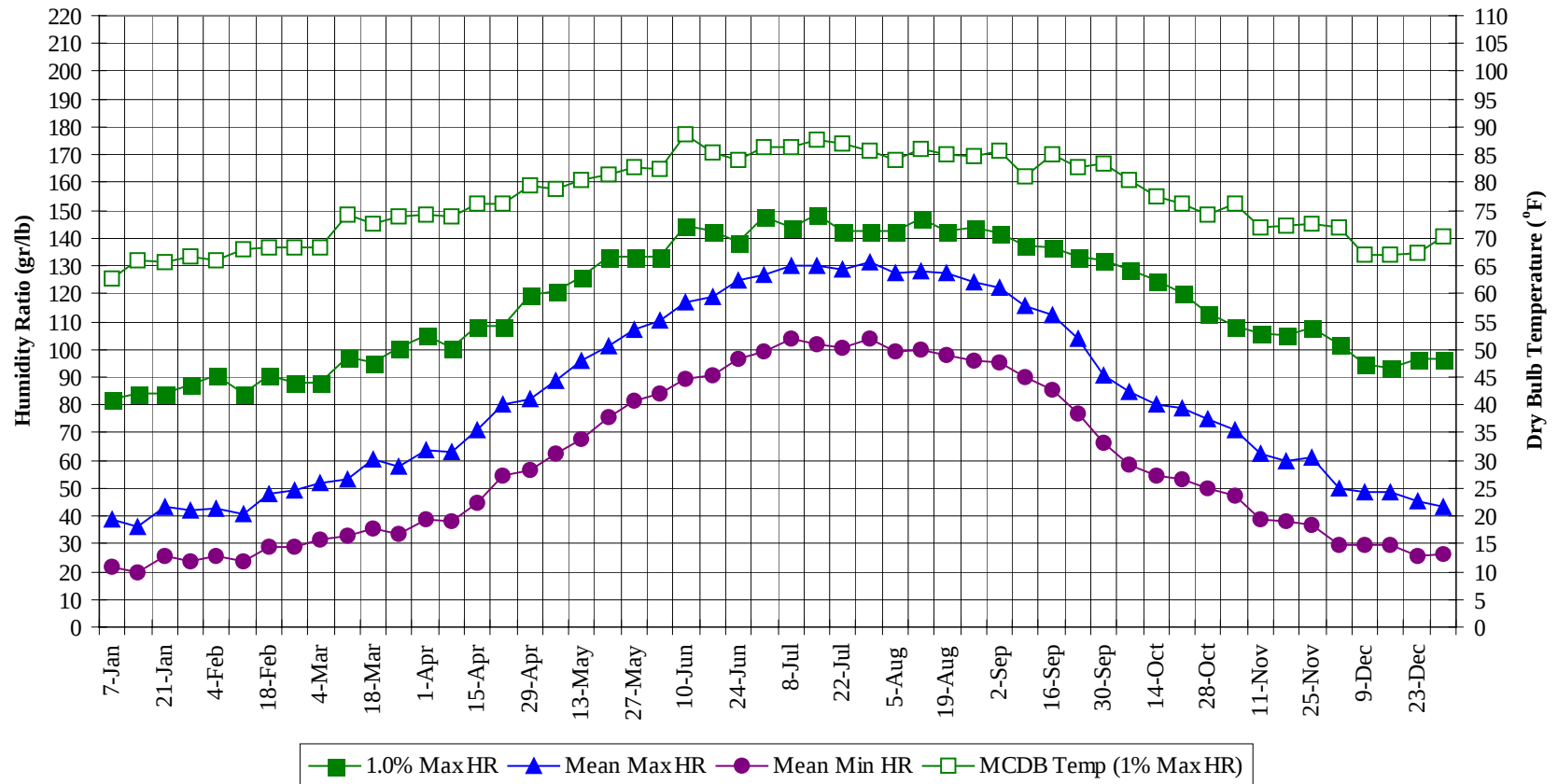
Annual Totals						
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	
	01 To 08	09 To 16	17 To 00			
105 / 109	0			0	77.5	
100 / 104	12			2	14	76.2
95 / 99	76			22	98	76.5
90 / 94	0	226	71	297	76.3	
85 / 89	6	346	158	509	74.6	
80 / 84	91	336	297	724	72.2	
75 / 79	364	306	378	1048	70.2	
70 / 74	433	301	366	1101	66.5	
65 / 69	333	257	303	892	61.4	
60 / 64	284	221	265	769	56.5	
55 / 59	260	204	235	699	51.6	
50 / 54	248	188	222	658	47.2	
45 / 49	232	145	195	571	42.8	
40 / 44	229	134	172	534	38.5	
35 / 39	192	90	125	407	33.9	
30 / 34	141	46	68	256	29.6	
25 / 29	61	19	26	106	24.9	
20 / 24	28	8	12	48	20.4	
15 / 19	12	3	3	18	15.7	
10 / 14	5	1	1	7	10.8	
5 / 9	1	0	1	2	5.2	
0 / 4	1		0	1	2.4	
-5 / -1	0			0	-1.0	

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

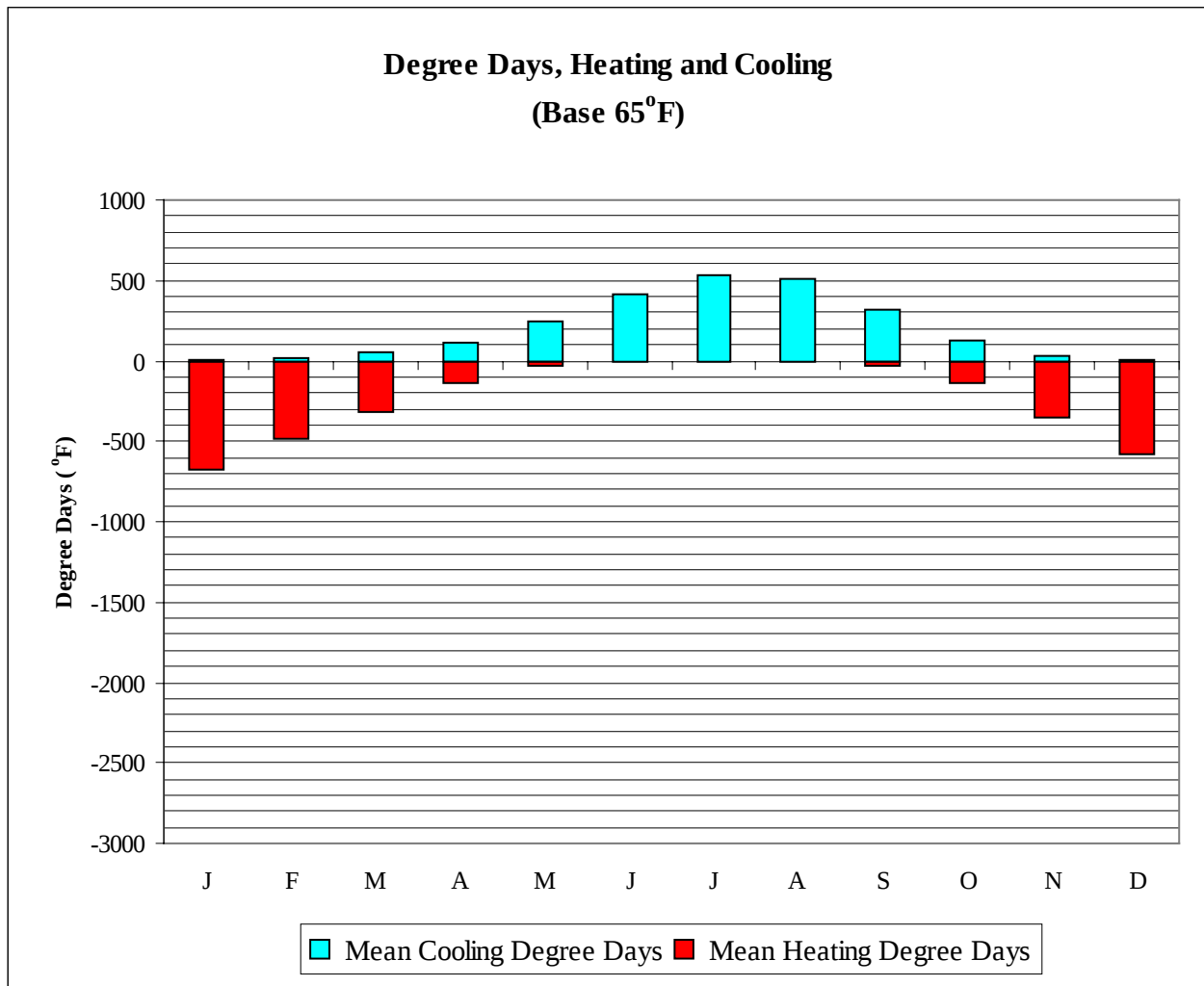


TEXARKANA/WEBB AR

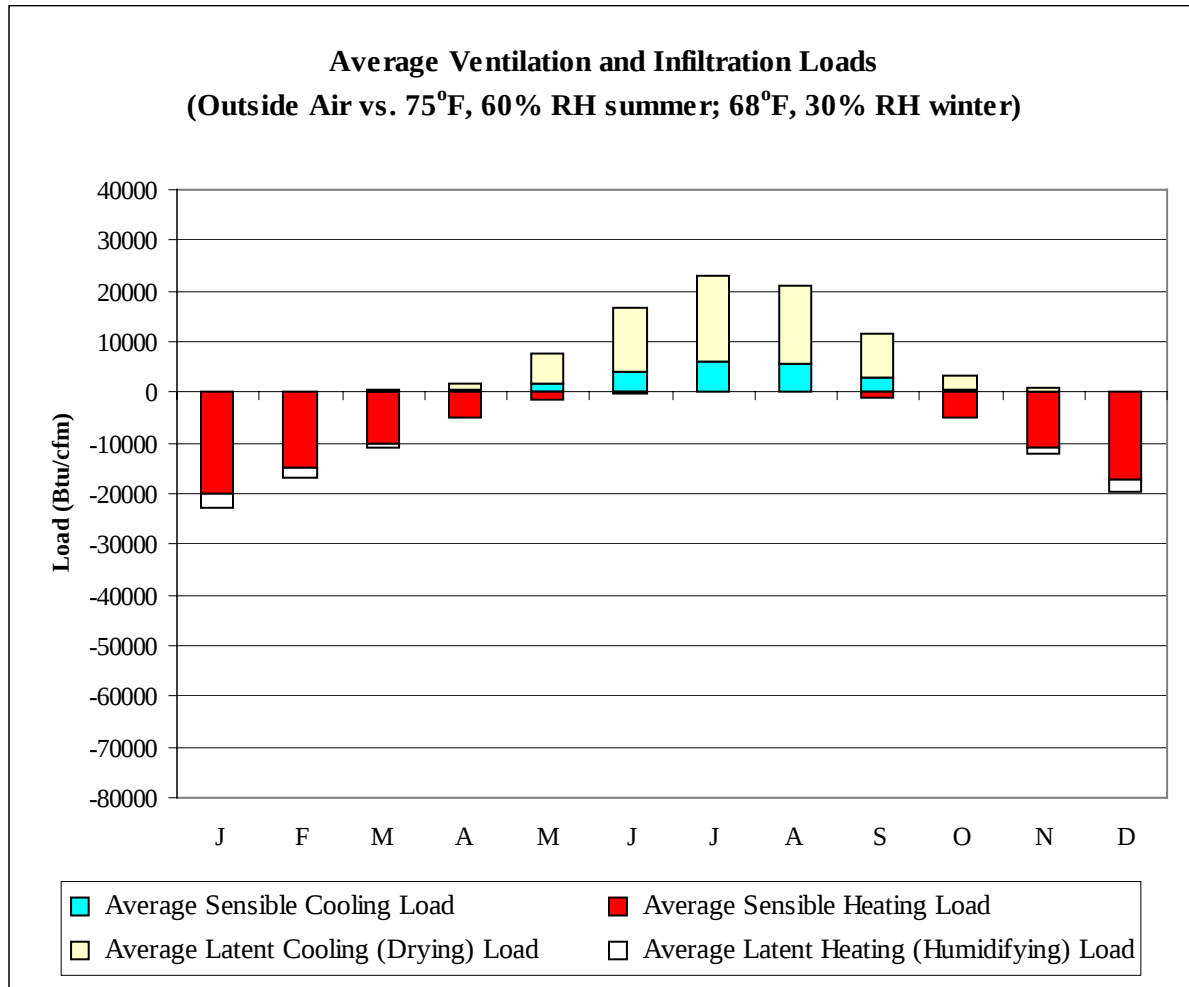
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Long Term Dry Bulb Temperature and Humidity Summary

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	68.0	56.6	49.9	34.0	20.0	81.9	62.8	38.8	21.7
14-Jan	70.0	57.8	49.6	32.1	15.0	84.0	66.2	35.8	20.0
21-Jan	70.0	58.6	52.6	35.3	16.0	84.0	65.7	43.1	25.8
28-Jan	69.0	60.5	55.3	36.2	24.0	87.5	66.6	41.9	23.5
4-Feb	73.0	60.9	54.9	37.1	18.0	90.3	66.1	42.8	25.8
11-Feb	73.0	60.7	53.3	35.0	20.0	84.0	68.0	40.7	23.4
18-Feb	75.0	61.1	58.9	39.8	25.0	90.3	68.3	48.0	28.9
25-Feb	81.0	60.8	63.8	42.2	26.0	88.2	68.2	49.2	29.1
4-Mar	78.0	64.1	62.2	42.6	29.0	88.2	68.4	51.8	31.3
11-Mar	80.0	66.6	65.1	43.9	26.0	97.3	74.1	53.0	32.8
18-Mar	80.0	63.6	68.5	47.5	32.0	95.2	72.6	60.1	35.6
25-Mar	81.0	64.1	68.2	47.4	34.0	100.8	73.8	57.9	33.6
1-Apr	82.0	62.2	69.2	48.8	35.0	105.0	74.2	63.8	38.9
8-Apr	83.0	68.0	70.5	49.6	36.0	100.8	73.8	63.3	38.1
15-Apr	83.0	66.6	73.3	52.2	39.0	108.5	76.3	70.6	44.5
22-Apr	85.0	67.8	75.9	56.1	43.0	108.5	76.1	79.9	54.5
29-Apr	86.0	70.0	77.2	57.0	46.0	119.7	79.4	82.2	56.2
6-May	85.0	70.1	76.8	58.5	49.0	121.1	78.7	88.5	62.1
13-May	87.0	72.0	80.0	61.1	51.0	126.0	80.5	96.1	67.4
20-May	88.0	72.3	82.0	63.3	54.0	133.0	81.4	101.3	75.4
27-May	89.0	75.2	83.5	65.2	57.0	133.0	82.7	107.2	81.5
3-Jun	92.0	74.1	84.6	66.5	55.0	133.0	82.4	110.4	84.2
10-Jun	94.0	78.3	86.6	68.2	62.0	144.2	88.6	117.0	89.2
17-Jun	93.0	76.1	88.0	69.0	61.0	142.8	85.2	118.9	90.5
24-Jun	96.0	75.2	90.1	71.1	64.0	138.6	84.0	124.6	96.4
1-Jul	97.0	77.7	90.2	71.8	64.0	147.7	86.4	126.7	99.1
8-Jul	98.0	77.0	91.6	72.9	67.0	143.5	86.2	130.2	103.5
15-Jul	99.0	77.1	91.5	73.1	66.0	148.4	87.5	130.2	101.5
22-Jul	99.0	75.2	92.6	72.8	68.0	142.8	87.1	128.5	100.2
29-Jul	99.0	77.8	92.4	73.3	69.0	142.8	85.6	131.1	103.8
5-Aug	99.0	76.7	91.2	72.4	65.0	142.8	84.2	127.4	99.3
12-Aug	99.0	76.4	91.6	71.9	65.0	147.0	85.9	127.9	99.8
19-Aug	99.0	76.5	92.6	72.2	64.0	142.8	85.0	127.2	98.1
26-Aug	100.0	76.1	93.6	71.8	66.0	143.5	84.9	124.4	95.7
2-Sep	99.0	76.8	90.6	70.9	63.0	142.1	85.7	122.1	95.4
9-Sep	97.0	74.4	88.9	68.6	58.0	137.2	81.2	115.4	89.8
16-Sep	97.0	73.5	86.6	67.1	56.0	136.5	85.1	112.4	85.6
23-Sep	92.0	75.2	83.7	63.7	49.0	133.0	82.9	103.6	76.7
30-Sep	90.0	70.8	81.1	60.0	49.0	132.3	83.5	90.9	66.5
7-Oct	90.0	71.7	80.4	57.8	45.0	128.8	80.6	84.5	58.2
14-Oct	88.0	69.5	77.7	55.8	44.0	124.6	77.6	80.3	54.7
21-Oct	85.0	67.1	75.6	54.3	40.0	120.4	76.2	78.7	53.3
28-Oct	82.0	66.7	72.6	52.3	40.0	112.7	74.4	74.8	50.2
4-Nov	81.0	65.9	69.6	49.9	32.0	108.5	76.0	71.0	47.5
11-Nov	80.0	65.3	66.6	46.7	31.0	105.7	71.9	62.1	39.0
18-Nov	78.0	67.7	65.2	45.9	32.0	105.0	72.3	59.9	38.1
25-Nov	76.0	67.4	62.8	45.0	30.0	107.8	72.4	61.4	37.0
2-Dec	75.0	68.9	58.8	40.3	26.0	101.5	72.0	50.0	29.7
9-Dec	72.0	61.6	59.0	40.1	27.0	94.5	67.1	48.9	29.5
16-Dec	73.0	63.2	56.5	39.3	23.0	93.1	66.8	48.3	29.3
23-Dec	72.0	62.6	53.9	35.9	15.0	96.6	67.3	45.6	25.6
31-Dec	71.0	68.3	52.6	35.9	13.0	96.6	70.2	43.2	26.4



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	4	681
FEB	15	489
MAR	48	312
APR	110	138
MAY	240	33
JUN	414	2
JUL	529	0
AUG	508	1
SEP	315	28
OCT	129	135
NOV	33	352
DEC	8	581
ANN	2354	2752



	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	2	-19982	54	-2926
FEB	35	-14685	84	-2141
MAR	140	-9974	434	-1027
APR	459	-4891	1439	-192
MAY	1595	-1507	5980	-1
JUN	4058	-167	12576	0
JUL	6075	-17	17014	0
AUG	5752	-62	15179	0
SEP	2788	-1154	8655	-5
OCT	708	-4824	2461	-98
NOV	62	-11068	735	-921
DEC	4	-17323	259	-2317
ANN	21678	-85654	64870	-9628

Average Annual Solar Radiation – Nearest Available Site

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

City: SHREVEPORT
 State: LA
 WBAN No: 13957
 Lat(N): 32.47
 Long(W): 93.82
 Elev(ft): 259

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.976
 Vert Gap: 0.659

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	1090	1400	1700	1910	2040	2040	1910	1580	1310	940	780	1460
	Std Dev	75	75	117	141	140	121	118	95	95	122	78	58	36
	Minimum	710	960	1200	1440	1660	1710	1850	1690	1270	1050	720	670	1400
	Maximum	980	1230	1710	2080	2230	2230	2340	2050	1740	1520	1070	880	1540
	Diffuse	400	480	610	730	840	870	850	780	670	500	400	360	620
Clear Day	Global	1210	1530	1950	2320	2530	2590	2520	2330	2010	1610	1250	1090	1910
NORTH	Global	250	300	380	460	560	640	610	500	410	330	260	230	410
	Diffuse	250	300	380	450	510	530	520	480	410	330	260	230	390
Clear Day	Global	230	280	350	440	590	690	640	490	390	310	240	210	410
EAST	Global	510	640	790	910	990	1050	1090	1060	890	770	570	480	810
	Diffuse	300	360	460	540	610	640	630	600	520	410	320	270	470
Clear Day	Global	820	990	1180	1330	1380	1380	1350	1290	1180	1010	830	760	1130
SOUTH	Global	1090	1140	1050	880	720	640	680	850	1040	1250	1170	1100	970
	Diffuse	390	450	500	540	550	540	550	560	550	490	420	370	490
Clear Day	Global	2000	1920	1630	1170	820	690	740	1000	1410	1760	1910	1950	1410
WEST	Global	550	690	840	980	1070	1110	1080	1030	920	810	610	510	850
	Diffuse	300	370	460	560	620	650	640	610	520	420	320	280	480
Clear Day	Global	820	990	1180	1330	1380	1380	1350	1290	1180	1010	830	760	1130

Average Annual Solar Heat and Illumination – Nearest Available Site

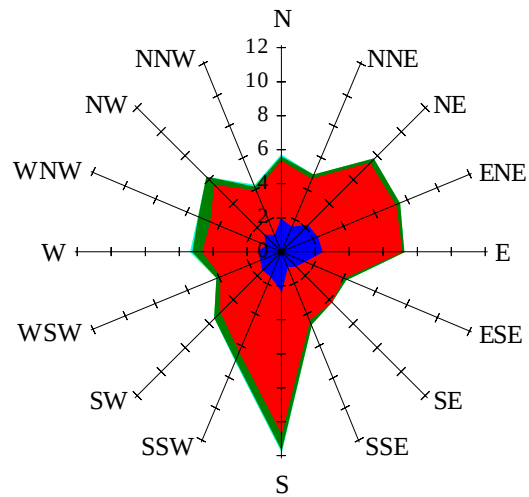
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	570	760	1000	1230	1390	1490	1490	1390	1140	930	650	520	1050
NORTH	Unshaded	170	210	260	310	370	410	390	340	290	230	180	160	280
	Shaded	150	180	230	270	310	350	330	300	250	200	160	130	240
EAST	Unshaded	350	450	560	650	700	750	770	750	630	540	390	330	570
	Shaded	300	380	450	520	560	590	620	610	510	440	330	280	470
SOUTH	Unshaded	810	820	710	550	430	400	410	520	670	880	860	820	660
	Shaded	750	650	390	310	330	330	330	340	340	600	780	790	490
WEST	Unshaded	380	490	600	700	760	790	770	730	650	570	420	350	600
	Shaded	320	410	490	560	600	630	610	590	540	470	350	300	490

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	40	78	91	75	36	40	81	103	99	71
	M.Cloudy	21	46	56	45	22	26	58	78	77	53
NORTH	M.Clear	10	14	16	14	9	23	17	17	18	17
	M.Cloudy	9	17	19	16	9	15	18	19	19	17
EAST	M.Clear	78	63	16	14	9	70	75	37	18	16
	M.Cloudy	23	32	19	16	9	32	49	32	19	17
SOUTH	M.Clear	34	66	76	63	30	12	21	34	32	17
	M.Cloudy	14	32	41	33	15	11	20	30	29	17
WEST	M.Clear	10	14	18	66	75	12	17	17	49	76
	M.Cloudy	9	17	20	34	28	11	18	19	40	51
M.Clear	(% hrs)	34	35	35	37	38	39	37	32	37	45
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	25	69	91	85	54	19	52	61	43	8
	M.Cloudy	16	45	64	63	38	10	29	36	24	5
NORTH	M.Clear	8	15	17	17	14	6	11	12	10	4
	M.Cloudy	7	16	19	19	14	5	11	13	10	3
EAST	M.Clear	58	74	35	17	14	50	47	12	10	4
	M.Cloudy	20	40	28	19	14	12	20	13	10	3
SOUTH	M.Clear	16	49	67	62	38	42	83	92	72	20
	M.Cloudy	9	29	44	43	24	10	29	37	25	6
WEST	M.Clear	8	15	17	50	74	6	11	20	55	29
	M.Cloudy	7	16	19	37	41	5	11	15	21	8
M.Clear	(% hrs)	44	42	38	40	47	35	34	35	39	40

Wind Summary - December, January, and February

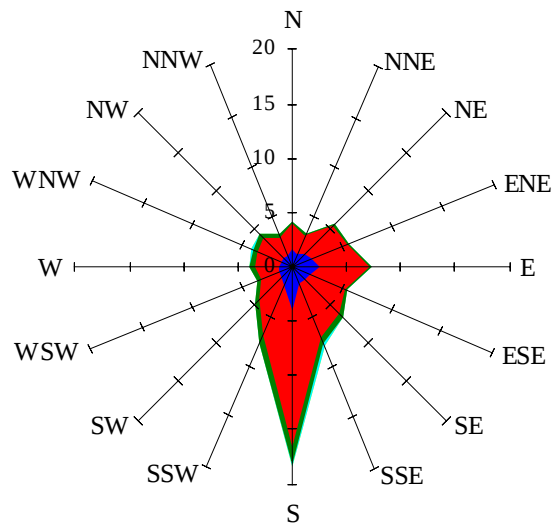
Labels of Percent Frequency on North Axis



Percent Calm = 5.98

Wind Summary - March, April, and May

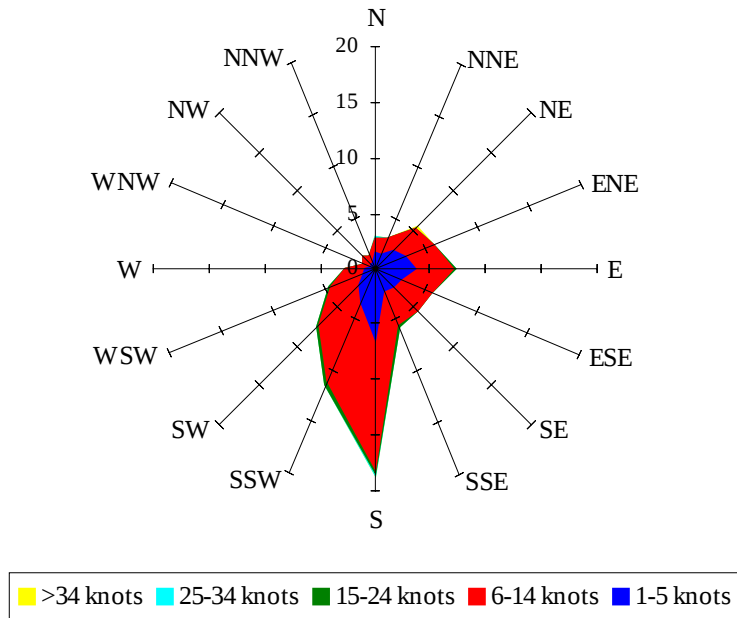
Labels of Percent Frequency on North Axis



Percent Calm = 6.47

Wind Summary - June, July, and August

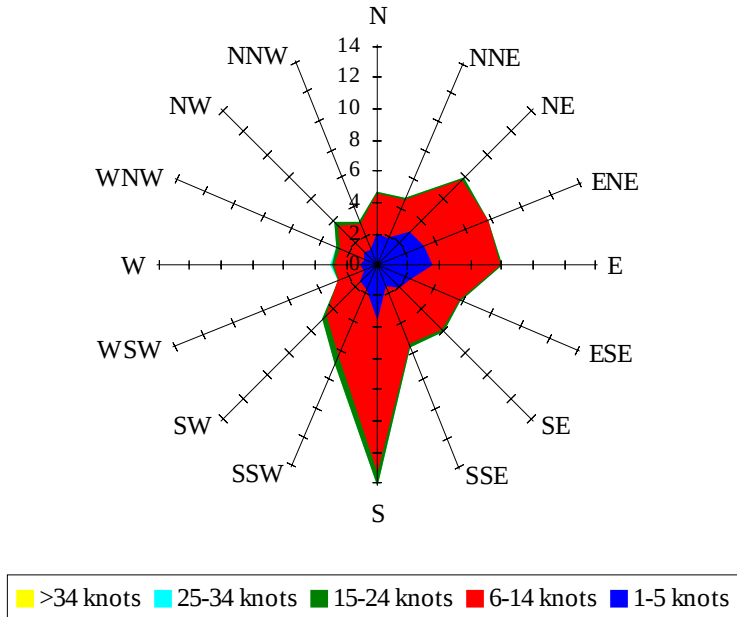
Labels of Percent Frequency on North Axis



Percent Calm = 11.88

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 9.68