

LAKE CHARLES LA

Latitude = 30.12 N

WMO No. 722400

Longitude = 93.22 W

Elevation = 33 feet

Period of Record = 1973 to 1996

Average Pressure = 29.98 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	95	79	121	7.8	W
0.4% Occurrence	93	78	122	8.0	SW
1.0% Occurrence	92	78	122	8.4	S
2.0% Occurrence	90	78	124	8.9	S
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	36	33	24	8.8	N
99.0% Occurrence	32	30	20	9.1	N
99.6% Occurrence	29	27	16	8.9	N
Median of Extreme Lows	25	23	13	10.1	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	83	91	157	10.1	SSW
0.4% Occurrence	81	88	147	9.3	SSW
1.0% Occurrence	80	87	142	8.7	S
2.0% Occurrence	80	87	142	8.7	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	161	86	1.07	7.8	SSW
0.4% Occurrence	151	84	1.00	7.8	SSW
1.0% Occurrence	146	84	0.97	8.4	S
2.0% Occurrence	145	83	0.97	7.4	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		52	1711	2638	4205

Other Site Data

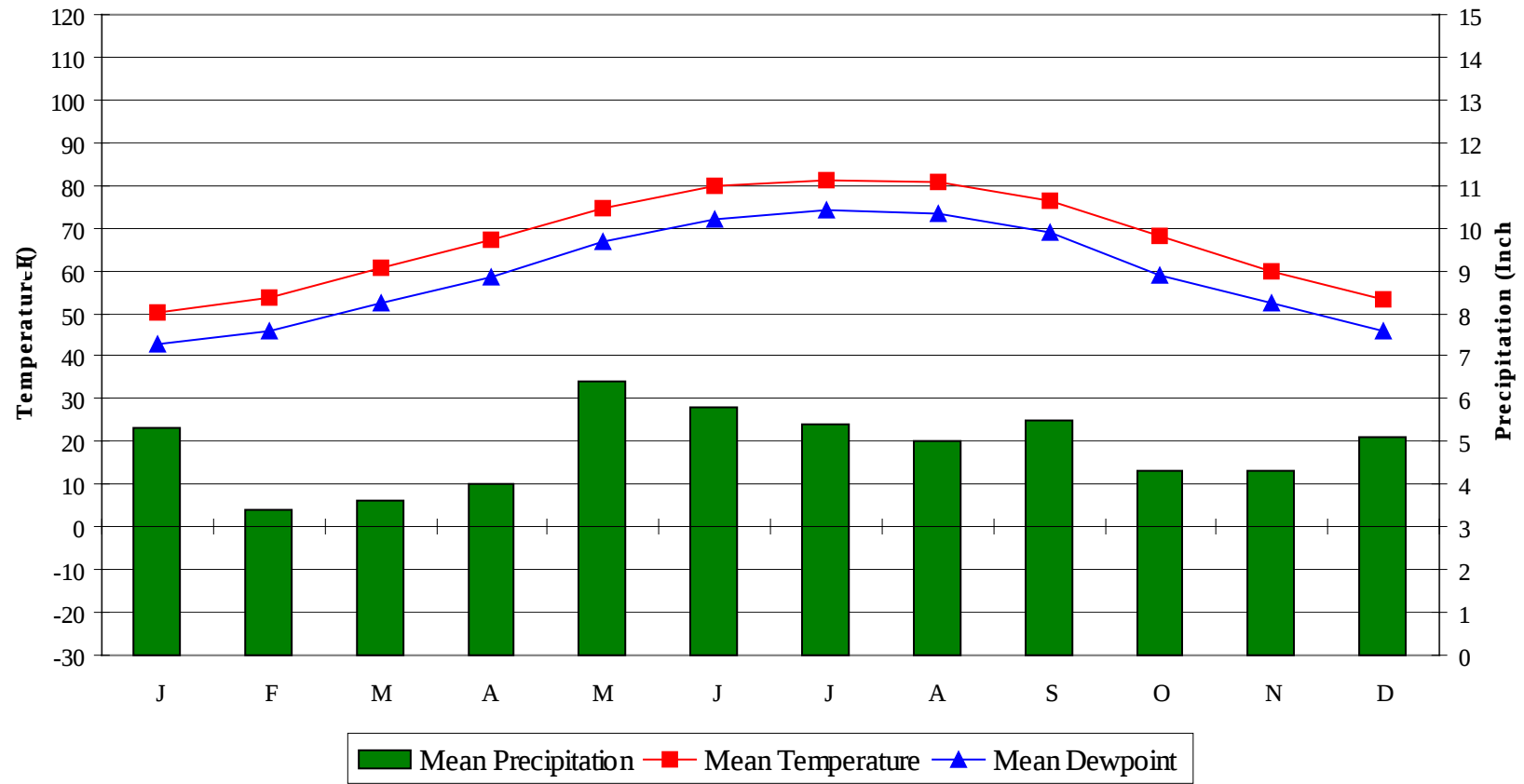
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
10	4.8	120	9.3 + 1.8
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
69.7	0	0	9

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

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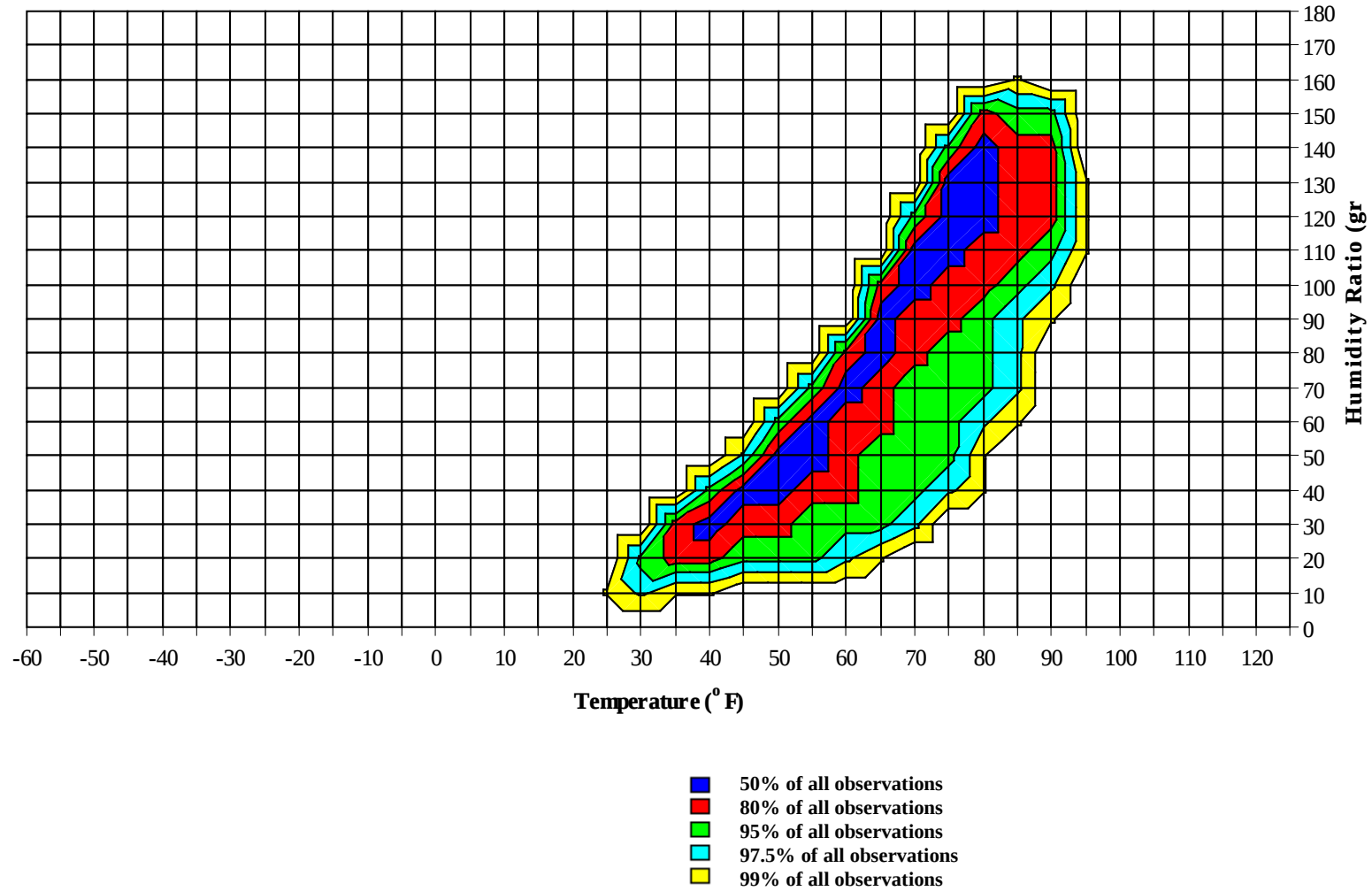
Average Annual Climate



LAKE CHARLES LA

WMO No. 722400

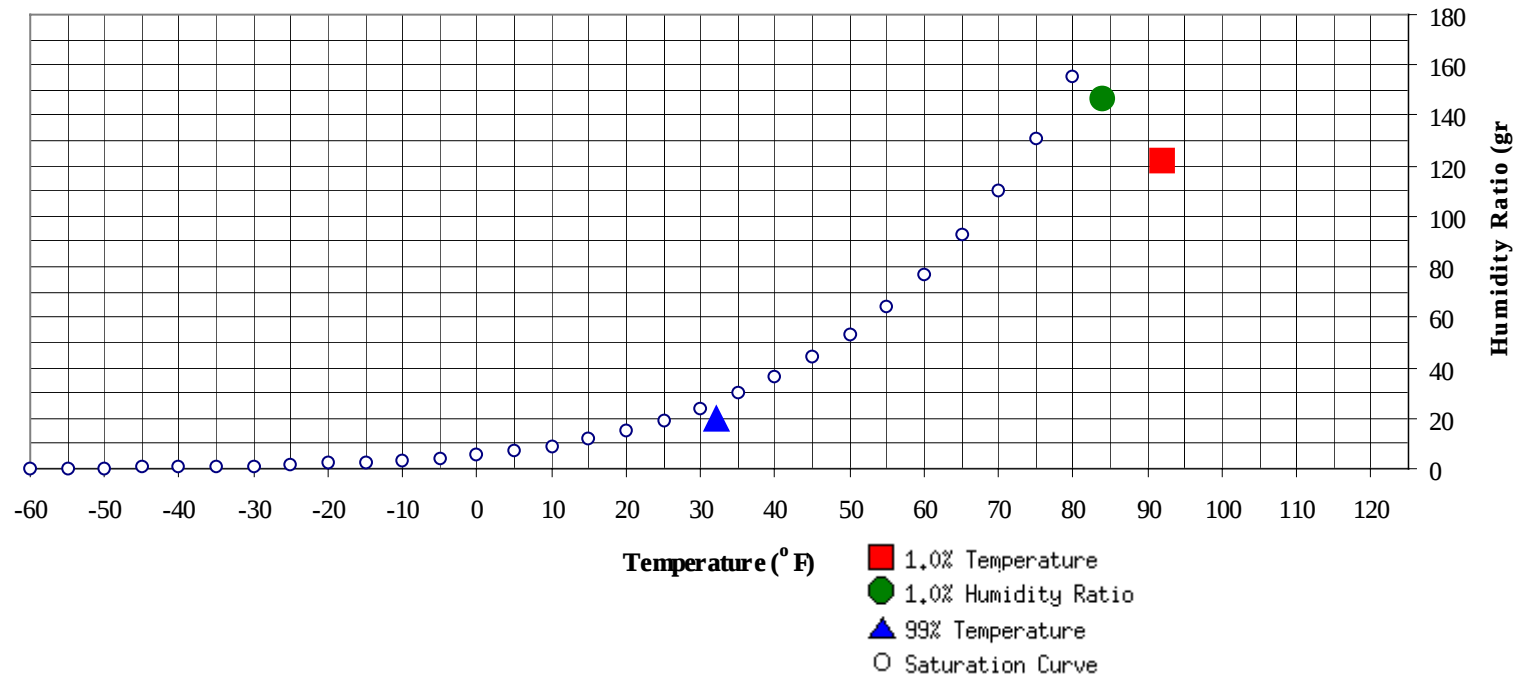
Long Term Psychrometric Summary



LAKE CHARLES LA

WMO No. 722400

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	32	20	10.8		146.3	83.8	79.5	78.1	43.1

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	92	122.2	78.1	41.3

LAKE CHARLES LA

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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		
100 / 104															
95 / 99															
90 / 94															
85 / 89											0	0		0	67.3
80 / 84		0		0	71.0						0	4	0	5	69.0
75 / 79		3	0	3	68.9		8	0	9	65.2	0	38	5	43	67.5
70 / 74	1	19	6	26	66.7	2	33	10	45	64.9	13	60	38	112	66.1
65 / 69	13	28	19	59	63.0	18	40	29	87	62.2	41	52	54	147	62.5
60 / 64	17	35	27	79	58.1	23	36	36	95	57.8	42	40	52	134	57.7
55 / 59	26	36	34	96	53.2	28	29	40	96	53.0	38	25	42	105	53.0
50 / 54	34	41	44	118	48.6	36	29	38	103	48.3	44	15	31	90	48.6
45 / 49	37	32	41	109	43.7	38	20	30	88	43.7	32	8	17	56	43.9
40 / 44	42	27	39	109	39.1	34	14	22	70	39.1	21	4	8	32	39.8
35 / 39	43	15	25	83	34.5	26	9	14	49	34.4	10	2	3	14	34.7
30 / 34	25	7	11	43	29.9	14	4	5	22	30.2	3	0	1	4	30.1
25 / 29	8	1	3	13	24.7	5	1	2	7	25.4	2	0	0	2	25.3
20 / 24	3	0	0	3	20.3	1	0	0	1	20.7			0	0	
15 / 19	1	0		1	14.6	0			0	17.6					
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.

LAKE CHARLES LA

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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		
100 / 104															
95 / 99							0		0	73.7		1	0	1	77.3
90 / 94		0		0	65.9		4	0	4	74.4		32	4	35	77.5
85 / 89		4	0	5	68.5	0	47	6	53	74.3	2	117	31	149	76.9
80 / 84		38	4	42	69.9	5	98	34	136	72.8	32	59	69	159	75.8
75 / 79	7	78	31	116	68.4	43	61	79	182	71.5	106	22	99	227	74.4
70 / 74	39	60	65	164	66.6	86	26	77	189	69.2	77	9	35	120	70.9
65 / 69	55	31	62	148	63.1	68	10	40	118	65.0	18	0	5	23	65.2
60 / 64	50	16	42	108	58.6	30	1	11	43	59.8	5		0	6	60.1
55 / 59	40	9	23	71	53.8	12	0	2	15	55.0	0			0	56.7
50 / 54	31	3	11	45	49.4	3		0	3	51.0	0			0	
45 / 49	12	1	3	16	44.9										
40 / 44	5	0	1	5	40.2										
35 / 39	1			1	36.5										
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															

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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		
100 / 104		0		0	76.5		0		0	78.0		0		0	81.0
95 / 99		4	0	5	79.0		6	0	6	78.9		1	0	2	77.7
90 / 94		73	9	81	78.6		69	8	76	78.3		27	2	28	76.5
85 / 89	5	107	41	153	78.2	2	101	32	135	77.6	0	83	14	98	76.3
80 / 84	45	40	83	169	77.3	27	47	71	146	76.9	8	67	40	115	74.5
75 / 79	138	18	95	251	75.2	128	21	111	259	74.9	66	39	94	199	73.4
70 / 74	57	5	21	82	71.7	81	3	25	109	71.4	93	16	56	165	70.1
65 / 69	2	0	0	2	67.2	9		2	10	65.2	37	4	22	63	64.1
60 / 64	0			0	61.3	2		0	2	60.6	22	1	10	33	58.9
55 / 59											9	0	4	13	54.2
50 / 54											4		0	4	50.8
45 / 49															
40 / 44															
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															

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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		
100 / 104															
95 / 99															
90 / 94		1	0	1	75.5										
85 / 89	0	25	1	26	73.9	0	0		0	71.9					
80 / 84	1	67	11	79	70.9	0	16	0	17	72.0		1		1	74.2
75 / 79	13	62	39	113	68.9	3	45	10	58	70.4	0	14	1	16	70.6
70 / 74	43	42	57	142	67.1	25	39	36	99	67.7	9	31	14	55	68.1
65 / 69	43	28	53	124	62.9	27	38	37	102	62.4	20	31	27	78	63.5
60 / 64	49	12	41	102	58.7	33	37	37	107	57.6	26	42	34	102	58.0
55 / 59	43	6	29	79	53.9	33	28	39	101	52.9	25	37	35	97	52.6
50 / 54	33	2	15	50	49.5	38	20	38	96	48.5	30	35	38	103	48.1
45 / 49	17	0	4	22	45.2	33	9	23	64	43.8	39	26	42	107	43.9
40 / 44	5	0	1	6	40.4	25	5	15	45	39.6	40	17	33	89	39.3
35 / 39	1		0	1	34.8	16	1	6	23	35.4	33	8	16	57	34.7
30 / 34	0			0	31.2	5	0	1	7	30.9	16	3	6	26	29.9
25 / 29						1		0	1	26.6	5	1	2	8	24.6
20 / 24						0			0	23.0	2	1	1	4	19.5
15 / 19											1	0	0	1	14.2
10 / 14											1	0		1	10.9

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

Period of Record = 1973 to 1996

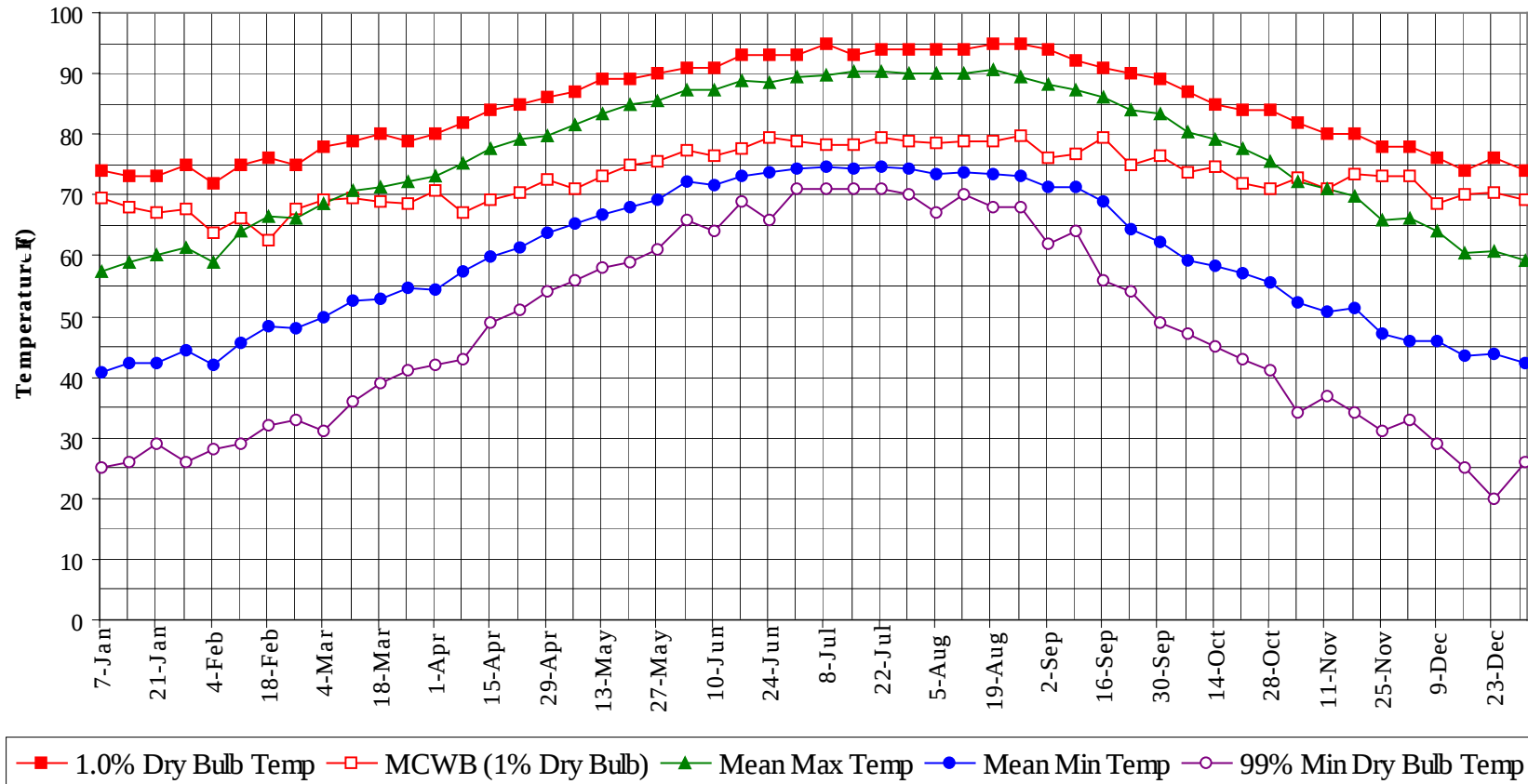
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		0		0	77.5
95 / 99		12	1	13	78.7
90 / 94		204	22	226	78.0
85 / 89	9	483	125	618	76.9
80 / 84	119	433	311	863	74.8
75 / 79	501	407	561	1469	72.8
70 / 74	522	343	437	1302	68.6
65 / 69	349	263	347	960	63.2
60 / 64	300	222	291	813	58.2
55 / 59	255	172	249	675	53.2
50 / 54	254	147	217	618	48.6
45 / 49	209	96	161	466	43.9
40 / 44	173	68	118	360	39.3
35 / 39	131	36	64	230	34.6
30 / 34	64	15	24	103	30.0
25 / 29	22	3	7	32	25.0
20 / 24	6	1	2	9	20.0
15 / 19	1	0	0	2	14.7
10 / 14	1	0		1	10.9

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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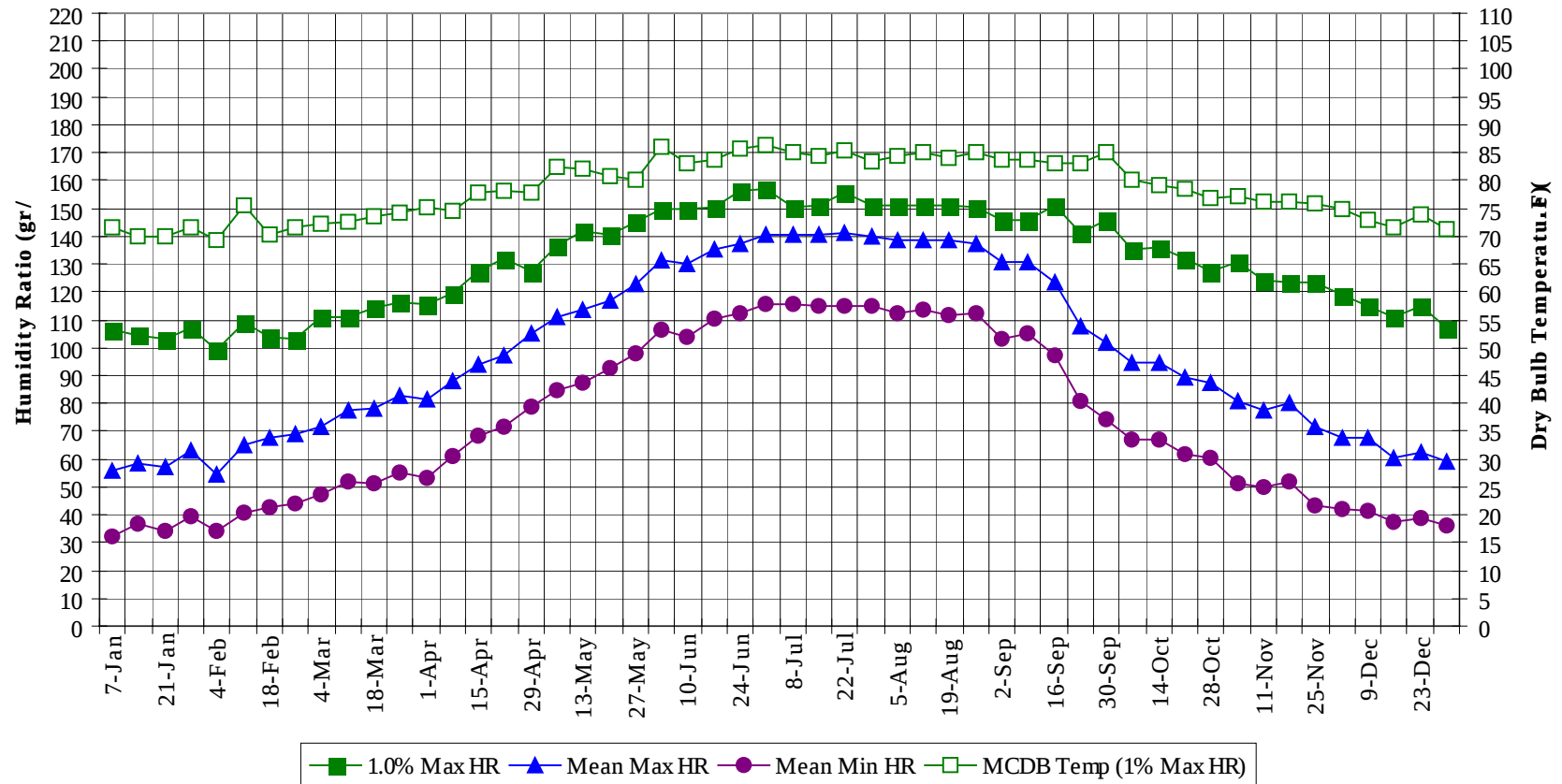
Annual Summary of Temperatures



LAKE CHARLES LA

WMO No. 722400

Long Term Humidity and Dry Bulb Temperature Summary



LAKE CHARLES LA

WMO No. 722400

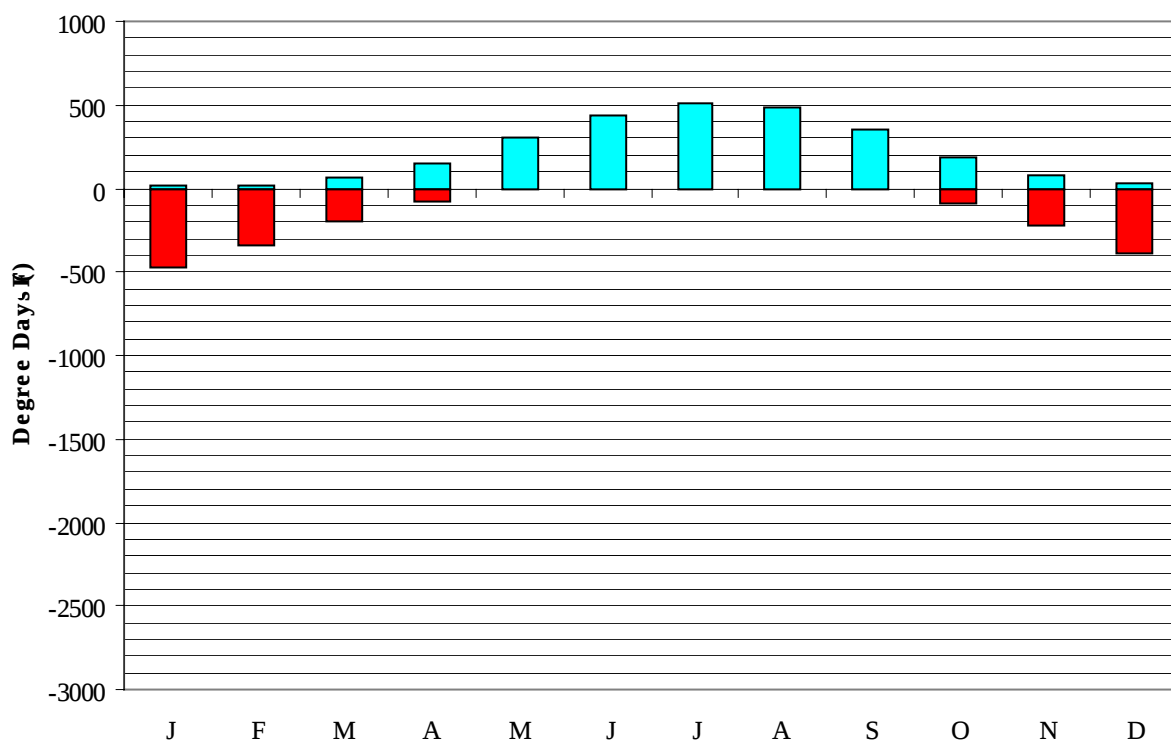
Long Term Dry Bulb Temperature and Humidity Summary

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	74.0	69.6	57.3	40.8	25.0	106.4	71.5	55.7	32.1
14-Jan	73.0	67.8	59.0	42.3	26.0	104.3	69.9	58.4	36.9
21-Jan	73.0	67.2	60.2	42.4	29.0	102.9	70.1	57.1	34.2
28-Jan	75.0	67.8	61.4	44.5	26.0	107.1	71.4	62.8	39.7
4-Feb	72.0	63.8	58.8	41.9	28.0	99.4	69.3	54.7	34.4
11-Feb	75.0	66.2	64.1	45.7	29.0	109.2	75.6	65.0	40.5
18-Feb	76.0	62.7	66.4	48.3	32.0	103.6	70.3	67.7	42.9
25-Feb	75.0	67.7	66.3	47.9	33.0	102.9	71.6	68.7	44.0
4-Mar	78.0	69.2	68.6	49.9	31.0	111.3	72.1	71.7	47.4
11-Mar	79.0	69.4	70.7	52.5	36.0	111.3	72.7	77.3	52.0
18-Mar	80.0	69.0	71.3	52.9	39.0	114.1	73.6	78.2	51.3
25-Mar	79.0	68.5	72.2	54.8	41.0	116.2	74.2	82.6	55.4
1-Apr	80.0	70.7	73.1	54.4	42.0	115.5	75.2	81.3	53.0
8-Apr	82.0	67.1	75.1	57.6	43.0	119.7	74.6	88.3	60.9
15-Apr	84.0	69.1	77.8	59.7	49.0	127.4	77.9	94.2	68.3
22-Apr	85.0	70.3	79.2	61.4	51.0	132.3	78.0	97.4	71.6
29-Apr	86.0	72.7	79.8	63.8	54.0	127.4	77.8	105.3	78.9
6-May	87.0	71.0	81.5	65.3	56.0	136.5	82.3	110.9	84.5
13-May	89.0	73.2	83.5	66.8	58.0	142.1	82.2	113.8	87.1
20-May	89.0	75.0	84.8	68.1	59.0	140.7	80.8	116.9	92.9
27-May	90.0	75.4	85.6	69.3	61.0	144.9	80.2	123.0	97.6
3-Jun	91.0	77.4	87.3	72.3	66.0	149.8	86.1	131.5	106.4
10-Jun	91.0	76.4	87.3	71.6	64.0	149.8	83.0	129.8	103.5
17-Jun	93.0	77.5	88.7	73.3	69.0	150.5	83.6	135.6	110.6
24-Jun	93.0	79.5	88.4	73.7	66.0	156.1	85.8	137.0	112.2
1-Jul	93.0	78.8	89.5	74.3	71.0	156.8	86.2	140.3	115.3
8-Jul	95.0	78.2	89.8	74.7	71.0	150.5	85.2	140.8	115.7
15-Jul	93.0	78.3	90.2	74.2	71.0	151.2	84.5	140.8	114.6
22-Jul	94.0	79.4	90.4	74.6	71.0	155.4	85.4	141.2	115.2
29-Jul	94.0	78.9	90.1	74.2	70.0	151.2	83.4	139.8	114.7
5-Aug	94.0	78.5	89.9	73.5	67.0	151.2	84.3	138.8	112.4
12-Aug	94.0	78.7	89.9	73.8	70.0	151.2	84.9	138.8	113.9
19-Aug	95.0	78.9	90.7	73.4	68.0	151.2	83.9	138.4	111.6
26-Aug	95.0	79.7	89.5	73.0	68.0	150.5	84.9	137.5	112.3
2-Sep	94.0	76.2	88.3	71.3	62.0	145.6	83.6	130.4	103.3
9-Sep	92.0	76.6	87.3	71.4	64.0	145.6	83.6	130.6	104.8
16-Sep	91.0	79.4	86.2	68.9	56.0	151.2	83.2	123.6	97.1
23-Sep	90.0	74.9	84.1	64.4	54.0	141.4	83.1	108.0	80.6
30-Sep	89.0	76.3	83.5	62.3	49.0	145.6	85.1	101.8	74.4
7-Oct	87.0	73.9	80.5	59.3	47.0	135.1	80.2	94.8	67.0
14-Oct	85.0	74.6	79.2	58.4	45.0	135.8	79.2	94.8	66.9
21-Oct	84.0	71.9	77.7	57.0	43.0	132.3	78.6	89.2	61.5
28-Oct	84.0	70.9	75.4	55.7	41.0	127.4	76.7	87.1	60.2
4-Nov	82.0	72.8	72.2	52.1	34.0	130.9	77.0	80.7	51.1
11-Nov	80.0	71.1	70.9	50.6	37.0	123.9	76.0	77.3	49.8
18-Nov	80.0	73.5	69.7	51.5	34.0	123.2	76.3	79.8	51.8
25-Nov	78.0	73.1	65.9	47.2	31.0	123.2	76.0	71.9	43.3
2-Dec	78.0	73.0	66.1	46.0	33.0	119.0	74.9	67.8	41.8
9-Dec	76.0	68.7	64.0	45.9	29.0	114.8	72.8	67.7	41.2
16-Dec	74.0	70.0	60.4	43.4	25.0	111.3	71.5	60.3	37.7
23-Dec	76.0	70.4	60.8	43.7	20.0	114.8	73.9	62.4	38.9
31-Dec	74.0	69.2	59.3	42.4	26.0	107.1	71.4	59.3	35.9

LAKE CHARLES LA

WMO No. 722400

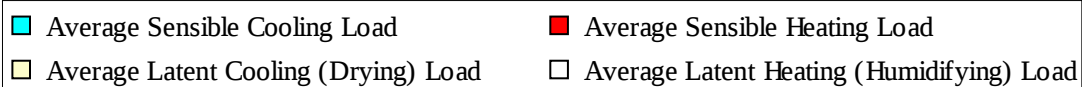
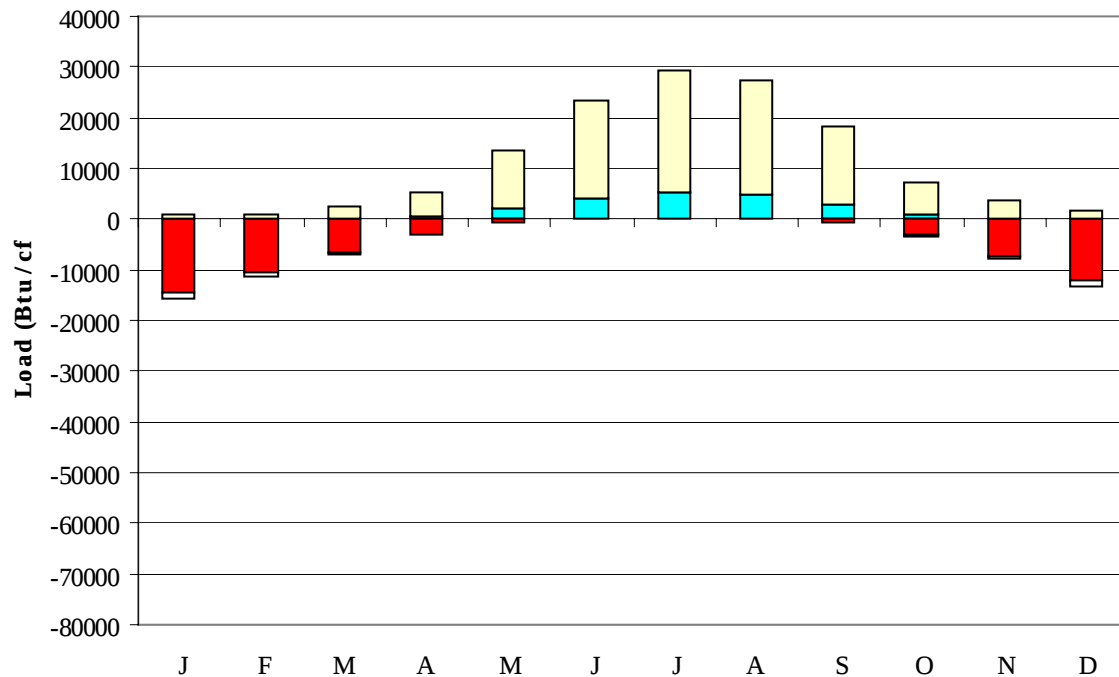
Degree Days, Heating and Cooling (Base 65°F)



Mean Cooling Degree Days Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	13	476
FEB	22	336
MAR	66	195
APR	147	77
MAY	306	10
JUN	441	1
JUL	508	0
AUG	486	0
SEP	359	10
OCT	186	86
NOV	76	225
DEC	29	390
ANN	2640	1806

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	2	-14543	774	-1273
FEB	10	-10581	950	-805
MAR	97	-6669	2505	-306
APR	529	-2984	4655	-34
MAY	2073	-574	11349	0
JUN	4185	-52	19123	0
JUL	5330	-2	24113	0
AUG	4916	-17	22410	0
SEP	3013	-478	15171	0
OCT	1114	-3209	6067	-33
NOV	222	-7396	3316	-323
DEC	22	-12153	1682	-944
ANN	21513	-58658	112115	-3718

Average Annual Solar Radiation – Nearest Available Site

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

City: LAKE CHARLES
 State: LA
 WBAN No: 3937
 Lat(N): 30.12
 Long(W): 93.22
 Elev(ft): 10

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.881
 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	860	1130	1420	1700	1900	2000	1900	1790	1590	1370	1010	820	1460
	Std Dev	78	97	115	136	131	148	102	113	93	104	90	58	31
	Minimum	670	970	1120	1430	1660	1700	1670	1480	1370	1090	750	740	1410
	Maximum	1020	1300	1650	2090	2230	2260	2140	2010	1780	1570	1160	930	1520
	Diffuse	420	500	640	770	880	910	920	860	720	540	430	380	660
Clear Day	Global	1300	1620	2010	2340	2520	2550	2490	2320	2030	1670	1330	1180	1950
NORTH	Global	260	310	390	470	570	640	600	510	420	350	280	240	420
	Diffuse	260	310	390	460	520	540	530	490	420	350	280	240	400
Clear Day	Global	240	290	350	430	590	690	630	490	390	320	250	230	410
EAST	Global	510	660	780	910	1000	1060	1020	1000	910	810	600	500	810
	Diffuse	310	370	470	560	620	650	640	610	540	440	330	290	490
Clear Day	Global	870	1030	1200	1320	1350	1340	1310	1260	1170	1020	860	800	1130
SOUTH	Global	1030	1110	1010	830	670	600	630	760	990	1240	1190	1070	930
	Diffuse	400	450	510	540	550	540	540	560	560	520	430	380	500
Clear Day	Global	2020	1910	1570	1080	740	620	660	920	1330	1710	1900	1970	1360
WEST	Global	540	690	830	950	1020	1040	970	930	870	810	630	510	810
	Diffuse	310	380	470	560	630	650	640	610	530	440	340	290	490
Clear Day	Global	870	1030	1200	1320	1350	1340	1310	1260	1170	1020	860	800	1130

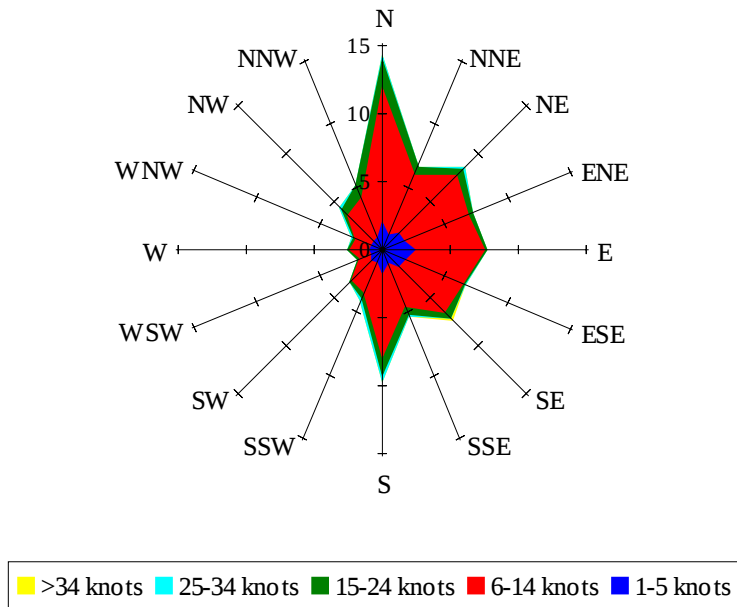
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	590	790	1020	1230	1380	1460	1380	1300	1140	980	700	560	1050
NORTH	Unshaded	180	220	270	320	370	410	390	340	290	240	190	170	280
	Shaded	150	190	230	280	320	350	330	300	260	220	170	140	250
EAST	Unshaded	350	460	550	650	710	750	720	710	650	570	420	340	570
	Shaded	300	390	460	530	580	620	590	590	540	470	360	300	480
SOUTH	Unshaded	760	790	670	510	410	380	390	470	630	860	870	790	630
	Shaded	710	640	390	320	330	330	330	340	350	610	790	760	490
WEST	Unshaded	380	480	590	670	720	740	680	660	610	570	440	360	570
	Shaded	320	410	490	560	590	600	560	540	510	480	370	300	480

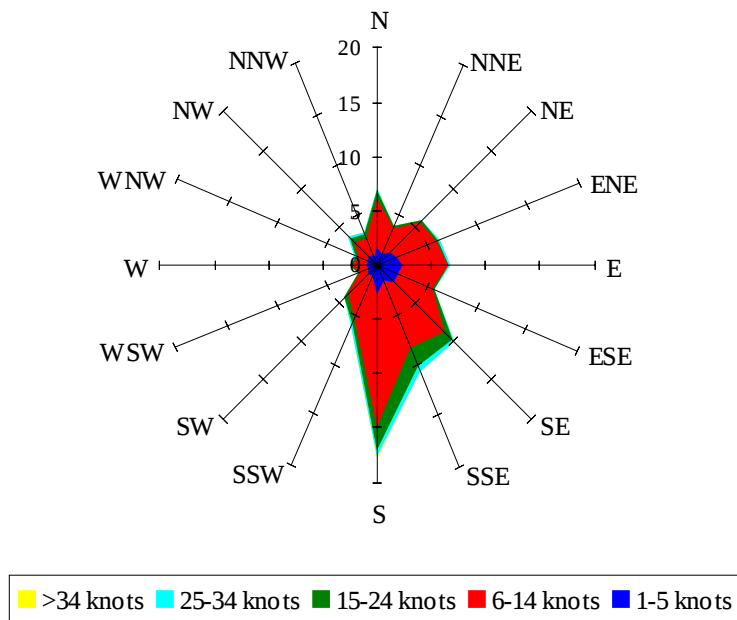
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	43	83	95	78	35	39	81	103	99	70
	M.Cloudy	23	49	59	46	21	28	62	79	74	49
NORTH	M.Clear	10	15	16	15	10	23	18	18	19	20
	M.Cloudy	10	17	19	16	9	16	19	19	20	18
EAST	M.Clear	79	64	16	15	10	64	73	37	19	17
	M.Cloudy	24	34	19	16	9	36	52	31	20	17
SOUTH	M.Clear	34	64	73	60	28	12	19	31	29	17
	M.Cloudy	15	34	42	32	14	11	19	27	26	17
WEST	M.Clear	10	15	20	68	73	12	18	18	50	75
	M.Cloudy	10	17	20	35	26	11	19	19	39	46
M.Clear	(% hrs)	30	30	31	34	37	47	35	32	36	43
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	25	70	93	87	53	23	55	65	46	9
	M.Cloudy	17	49	67	62	37	12	31	37	26	6
NORTH	M.Clear	9	16	18	18	14	7	12	13	11	4
	M.Cloudy	7	17	19	19	14	5	12	14	10	3
EAST	M.Clear	54	72	35	18	14	54	47	13	11	4
	M.Cloudy	23	44	29	19	14	13	21	14	10	3
SOUTH	M.Clear	15	47	65	60	35	45	82	91	72	21
	M.Cloudy	9	31	44	41	23	12	30	38	26	6
WEST	M.Clear	9	16	18	52	72	7	12	21	57	31
	M.Cloudy	7	17	19	37	39	5	12	16	22	8
M.Clear	(% hrs)	52	44	35	37	39	32	33	33	35	36

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



Percent Calm = 4.77

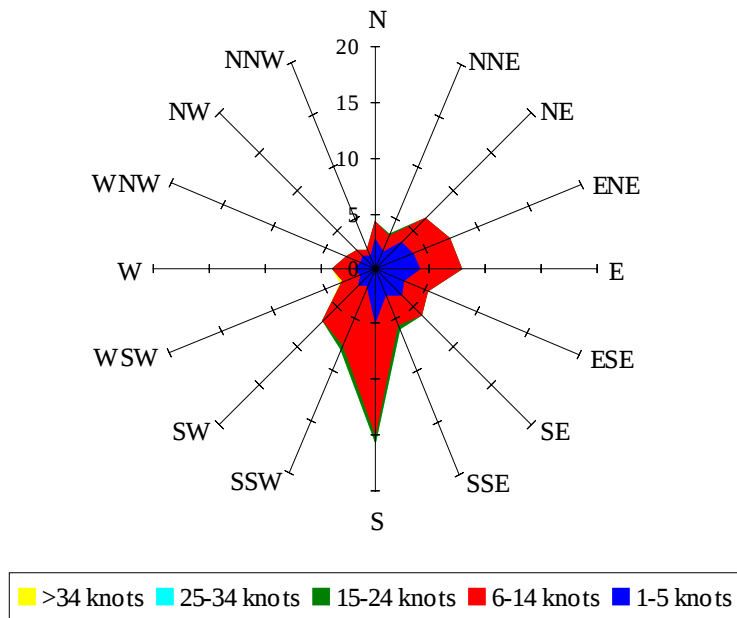
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 4.74

Wind Summary - June, July, and August

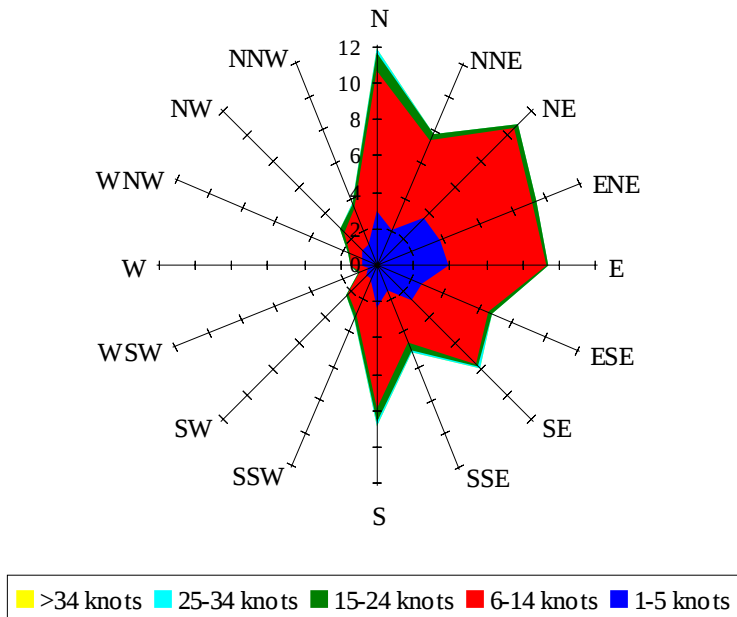
Labels of Percent Frequency on North Axis



Percent Calm = 10.36

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 7.09