

SOUTHEAST TEXAS RGNL, TX

Latitude = 29.95 N

Longitude = 94.02 W

Period of Record = 1988 To 2017

Station ID = ICAO_KBPT

Elevation = 15 Feet

Average Pressure = 30.01 inches Hg

Design Criteria Data

Dry Bulb Temperature (T)	Mean Coincident (Average) Values				
	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	98	78	111	7.6	VRB
0.4% Occurrence	95	78	118	7.8	S
1.0% Occurrence	93	78	122	8.6	S
2.0% Occurrence	91	78	124	9.2	S
Mean Daily Range	17	-	-	-	N
97.5% Occurrence	39	37	27	7.7	N
99.0% Occurrence	35	32	23	7.8	N
99.6% Occurrence	31	29	19	8.5	N
Median of Extreme Lows	27	25	15	8.6	N

Wet Bulb Temperature (T_{wb})	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	83	90	153	10	S
0.4% Occurrence	82	89	149	9.4	S
1.0% Occurrence	81	88	144	9	S
2.0% Occurrence	80	87	139	8.5	S

Humidity Ratio (HR)	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	159	86	1.05	8.5	S
0.4% Occurrence	151	84	0.99	7.5	S
1.0% Occurrence	150	84	0.99	7.1	S
2.0% Occurrence	148	84	0.99	6.6	S

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	120	1974	2985	4500

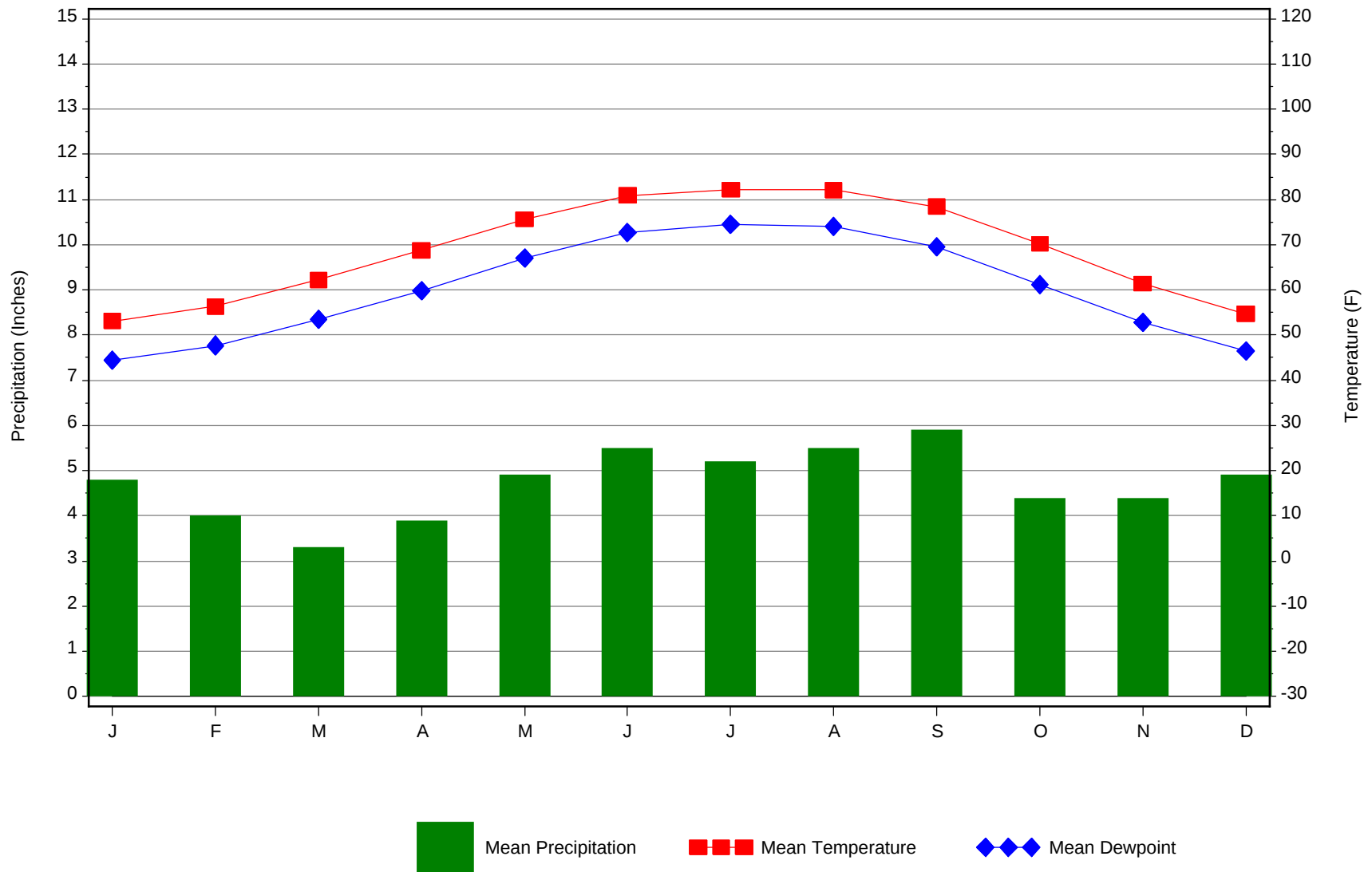
Other Site Data

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	4.5	120	10.6 + 2.1
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 (#)
71.4	N/A	0	5

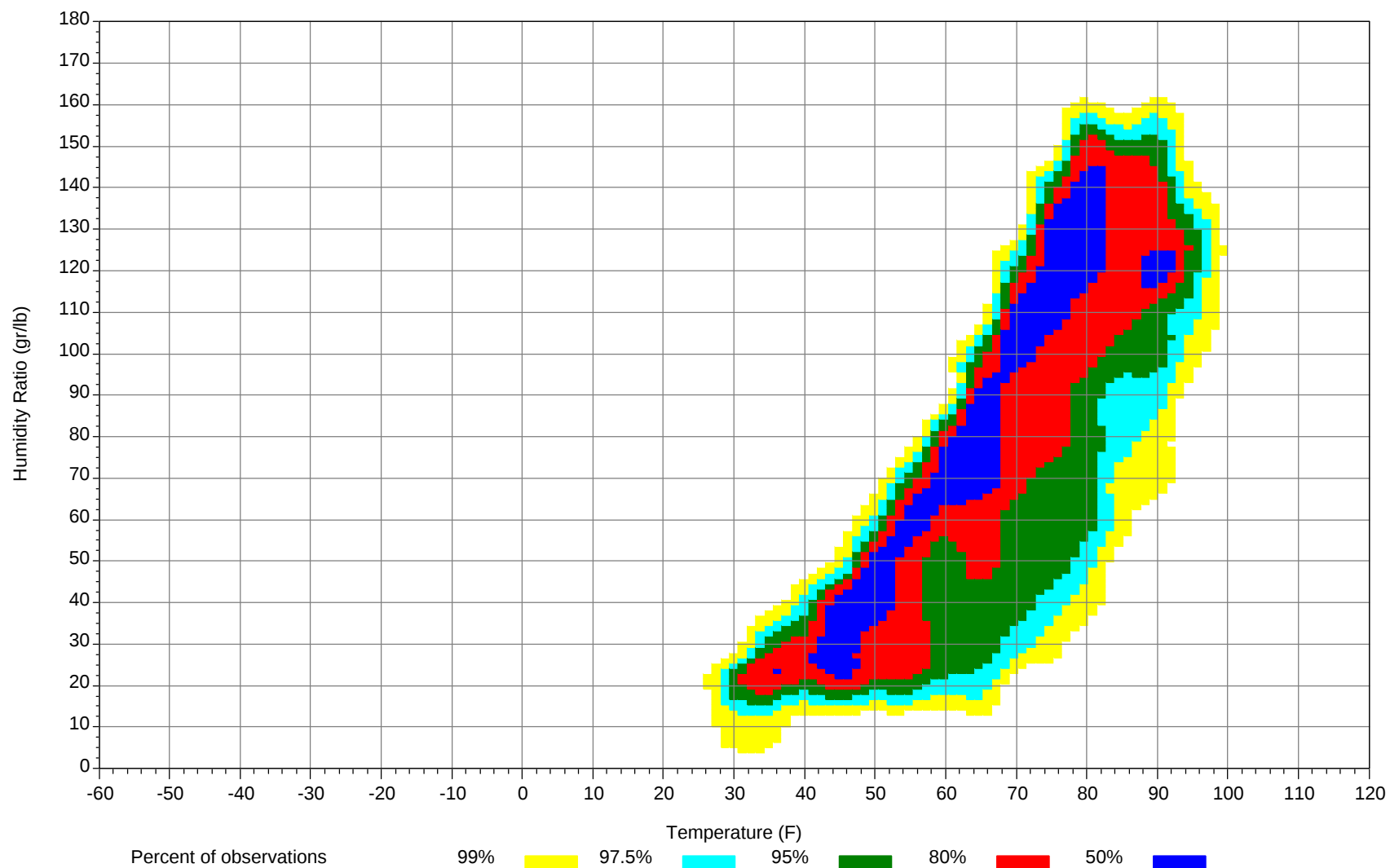
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



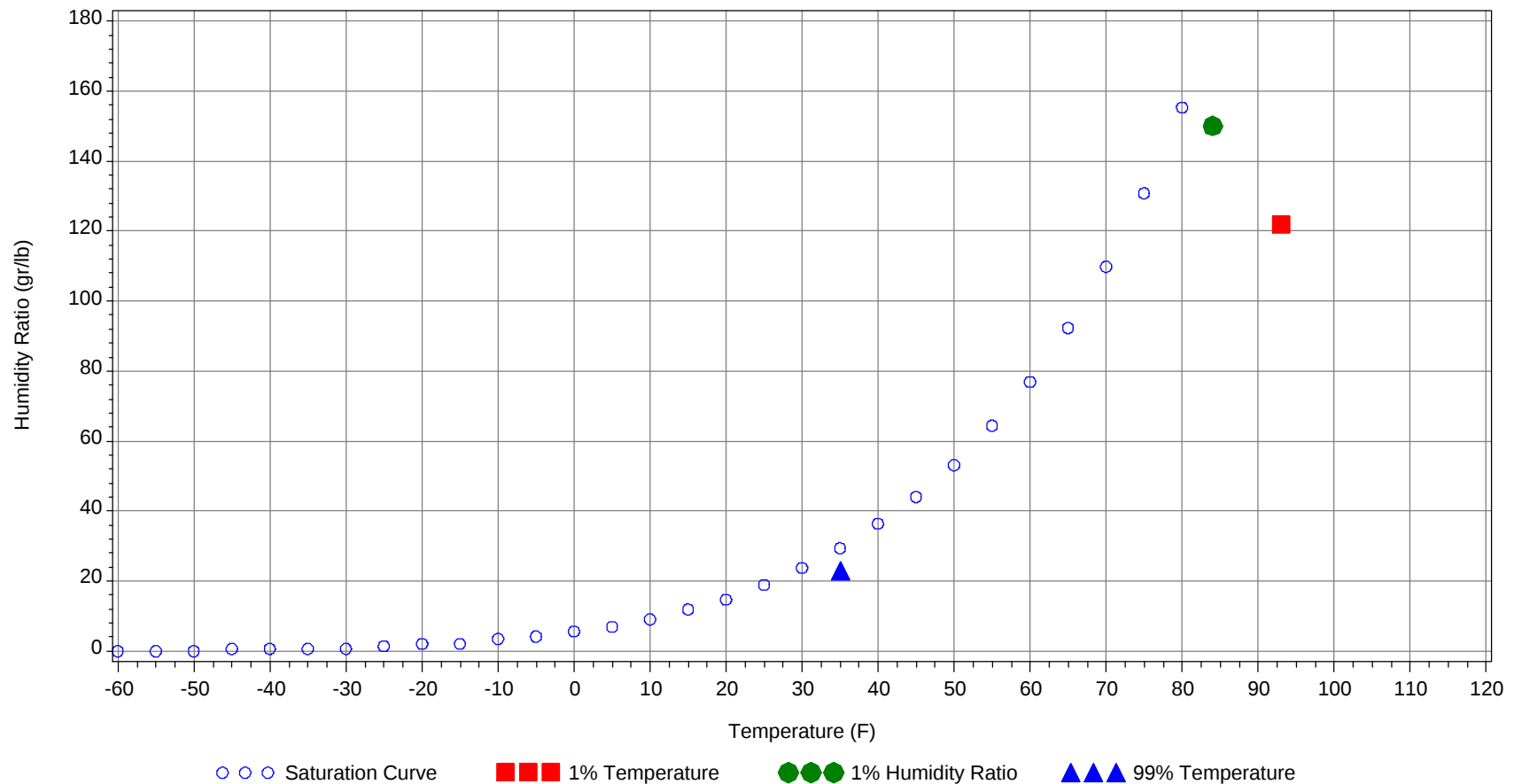
Average Annual Climate



Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values



	(° F) / (gr/lb)	MCDB (° F)	MCWB (° F)	MCDP (° F)	MCHR (gr/lb)	Enthalpy (btu/lb)
1.0% Dry Bulb	93.0		78		122.0	41.3
99.0% Dry Bulb	35.0				23.0	12.0
1.0% Humidity Ratio	150.0	84.0	80.1	78.8		43.6

Dry-Bulb Temperature Hours For An Average Year

	January					February					March				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109															
100/104															
95/ 99															
90/ 94															
85/ 89							0		0	70.5		0		0	65.5
80/ 84		0		0	67.3		1	0	1	66.3		9	1	10	69
75/ 79		10	0	10	67		15	1	16	67	0	50	6	56	67.7
70/ 74	5	36	10	51	65.4	4	44	15	63	65.2	25	70	47	142	66
65/ 69	15	28	23	66	62.7	22	33	30	85	62.8	42	38	49	129	62.8
60/ 64	31	40	38	109	58.3	36	41	44	121	58.2	50	38	57	145	58.3
55/ 59	28	35	37	100	52.6	28	29	38	95	52.4	38	20	37	95	53
50/ 54	34	39	44	117	48.3	35	27	38	100	47.9	37	13	27	77	48.4
45/ 49	43	30	46	119	43.2	43	18	33	94	43.4	31	7	17	55	43.6
40/ 44	33	14	25	72	39	25	7	13	45	39.3	13	2	5	20	39.1
35/ 39	37	10	17	64	34.8	20	5	8	33	35.2	8	1	3	12	34.5
30/ 34	15	3	6	24	29.5	7	3	3	13	30.1	3	0	0	3	29.9
25/ 29	6	1	1	8	24.8	2	0	1	3	25.3	1	0	0	1	24.9
20/ 24	1			1	20.9	1	0		1	20.7	0		0	0	21.8
15/ 19	0			0	18										
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.

Dry-Bulb Temperature Hours For An Average Year

	April					May					June				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109															
100/104												1	0	1	76.3
95/ 99							0	0	0	72.5		4	1	5	77.2
90/ 94		0		0	65.7		9	0	9	74.5		72	7	79	77.3
85/ 89		4	0	4	71.7	0	50	4	54	75.1	4	90	27	121	77.2
80/ 84	0	51	5	56	70.5	10	118	39	167	73.1	50	49	80	179	76.2
75/ 79	11	87	35	133	69.2	70	46	90	206	72.1	119	19	98	236	74.5
70/ 74	68	56	81	205	67.2	90	17	74	181	68.9	58	6	24	88	70.9
65/ 69	42	19	44	105	63.2	37	5	26	68	64.4	8	0	3	11	65.7
60/ 64	51	16	41	108	58.8	27	2	11	40	59.6	2		0	2	61.7
55/ 59	32	5	21	58	53.5	11	0	2	13	54.9	0			0	58
50/ 54	23	2	10	35	49	3	0	0	3	49.9					
45/ 49	11	1	1	13	44.4	1		0	1	45.7					
40/ 44	2	0	0	2	40.5	0			0	43					
35/ 39	0		0	0	36.7										
30/ 34															
25/ 29															
20/ 24															
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.

Dry-Bulb Temperature Hours For An Average Year

	July					August					September				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109							0		0	77		0		0	78
100/104		0		0	82		1	0	1	77.1		1	0	1	77.7
95/ 99		10	0	10	78.2		19	1	20	78.3		4	0	4	76.7
90/ 94		108	16	124	78.7	0	103	17	120	78.6		50	4	54	76.6
85/ 89	6	74	33	113	78.2	5	68	30	103	78	1	75	16	92	75.5
80/ 84	52	39	95	186	77.3	49	37	86	172	77.3	20	65	57	142	74.7
75/ 79	158	15	94	267	75.3	152	17	99	268	75.3	101	32	98	231	73.8
70/ 74	30	4	10	44	71.8	37	3	13	53	71.4	73	10	44	127	69.3
65/ 69	1		0	1	65.4	3		1	4	64.7	21	2	12	35	63.5
60/ 64	0			0	60	1			1	59.6	16	1	7	24	59.2
55/ 59											6	0	1	7	54.3
50/ 54											1			1	51.4
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

	October					November					December				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109															
100/104															
95/ 99															
90/ 94		5	0	5	75.7										
85/ 89		28	1	29	74		1		1	73					
80/ 84	3	80	16	99	71.8	0	19	0	19	72		1		1	71.8
75/ 79	31	57	49	137	70.7	4	49	9	62	69.1	0	20	1	21	70.1
70/ 74	56	41	65	162	67.4	29	48	41	118	66.8	13	37	20	70	67.3
65/ 69	39	19	40	98	63.1	26	33	32	91	62.4	21	28	26	75	63.6
60/ 64	49	13	40	102	58.8	40	40	47	127	57.9	31	40	36	107	58.1
55/ 59	36	4	22	62	54	37	24	40	101	52.9	25	39	33	97	52.3
50/ 54	21	2	11	34	49.4	40	15	34	89	48.5	32	34	43	109	47.7
45/ 49	9	0	3	12	44.7	32	6	24	62	43.7	43	28	45	116	43.2
40/ 44	2	0	0	2	40.1	16	3	9	28	39.4	31	11	24	66	39.2
35/ 39	1		0	1	34.9	13	1	4	18	35.6	35	8	16	59	35
30/ 34	0			0	30.4	3		0	3	31.2	15	1	4	20	30.3
25/ 29						0			0	28.1	2	1	1	4	24.9
20/ 24											1	0	0	1	20.3
15/ 19											0	0	0	0	14.2
10/ 14											0			0	10.8

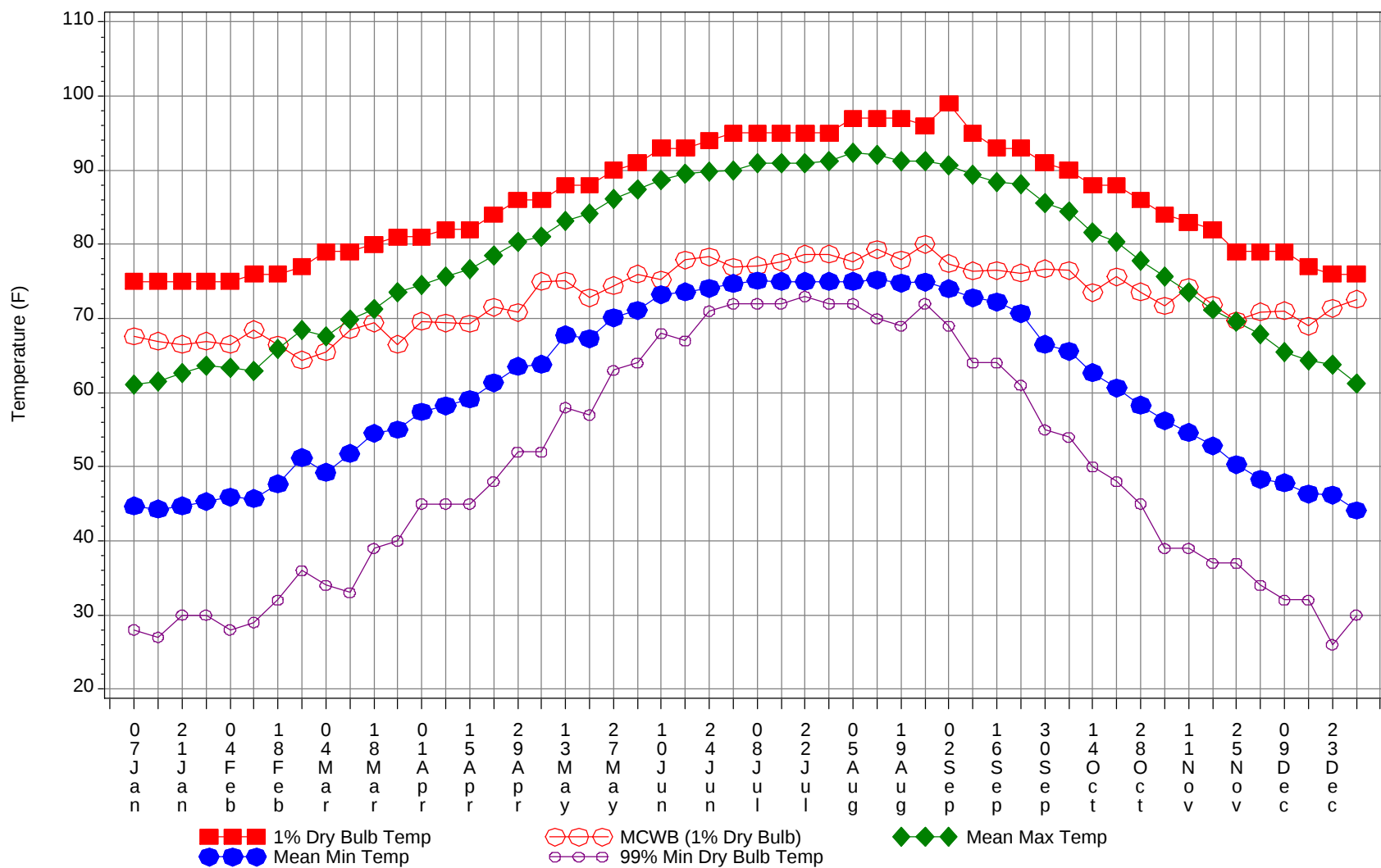
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Dry-Bulb Temperature Hours For An Average Year

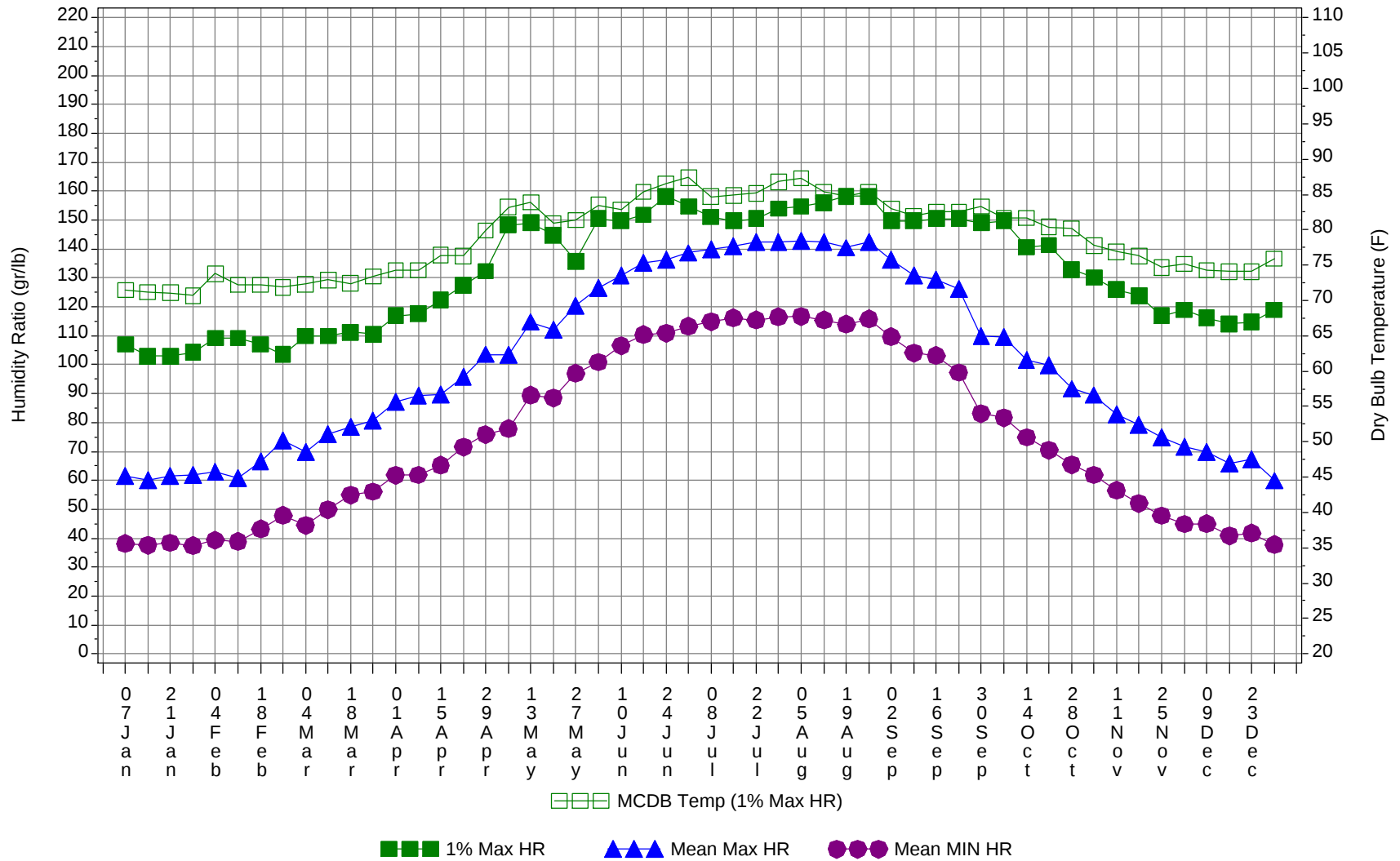
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109		0		0	77.4
100/104		3	0	3	77.1
95/ 99		37	2	39	77.9
90/ 94	0	346	45	391	78
85/ 89	16	389	112	517	76.8
80/ 84	184	467	379	1030	75
75/ 79	646	416	580	1642	73
70/ 74	487	372	444	1303	67.9
65/ 69	275	204	286	765	63.1
60/ 64	334	232	323	889	58.4
55/ 59	244	158	230	632	52.9
50/ 54	227	132	207	566	48.3
45/ 49	213	91	169	473	43.4
40/ 44	123	38	76	237	39.2
35/ 39	115	25	48	188	35
30/ 34	43	8	14	65	30
25/ 29	11	2	3	16	25
20/ 24	2	0	0	2	20.6
15/ 19	1	0	0	1	14.8
10/ 14	0			0	10.8

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



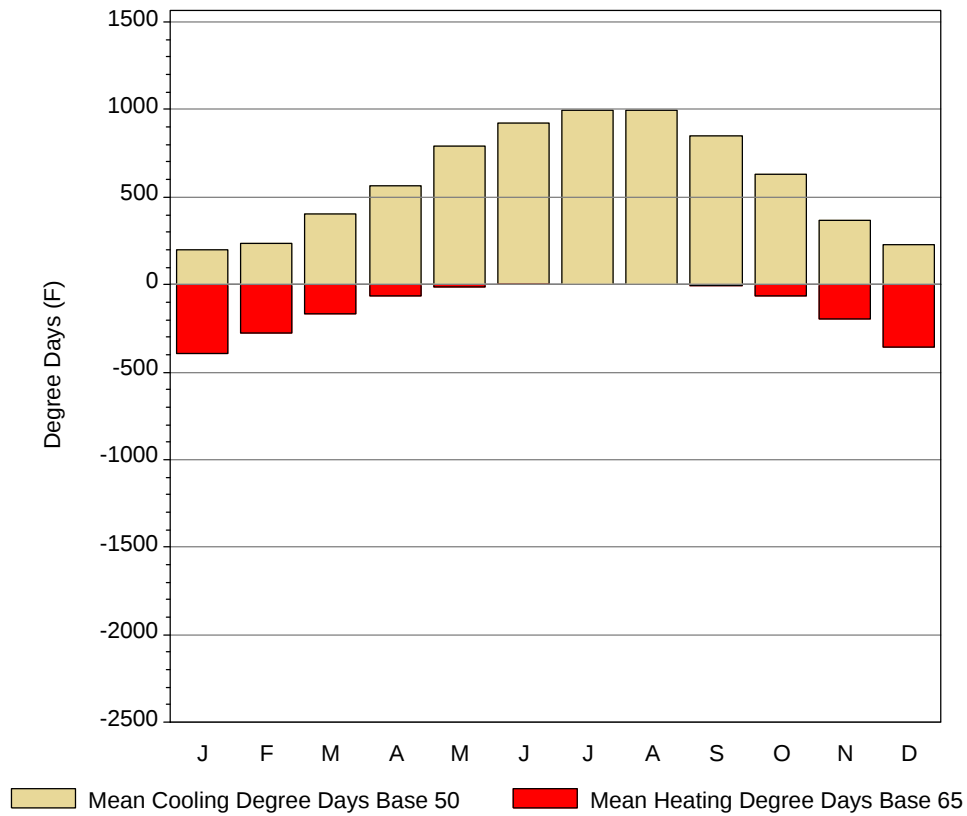
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

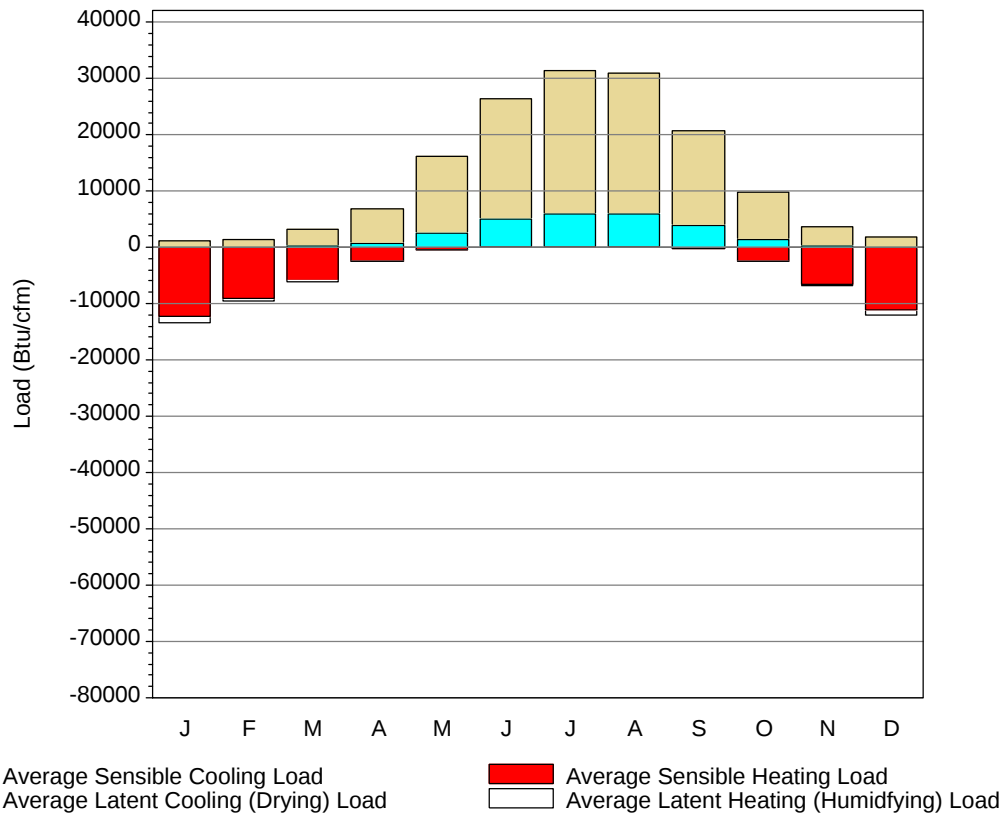
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	75	67.6	61.1	44.7	28	107.1	71.5	61.4	38.2
14-Jan	75	66.9	61.5	44.3	27	102.9	71.2	60.2	37.5
21-Jan	75	66.5	62.6	44.7	30	102.9	71.1	61.6	38.4
28-Jan	75	66.9	63.6	45.3	30	104.3	70.7	62	37.4
4-Feb	75	66.5	63.3	45.9	28	109.2	73.8	62.9	39.3
11-Feb	76	68.5	62.9	45.7	29	109.2	72.2	60.9	38.8
18-Feb	76	66.4	65.9	47.7	32	107.1	72.2	66.5	43.2
25-Feb	77	64.4	68.4	51.2	36	103.6	71.9	73.9	47.9
4-Mar	79	65.5	67.6	49.2	34	109.9	72.3	69.9	44.5
11-Mar	79	68.5	69.9	51.8	33	109.9	72.9	76	49.9
18-Mar	80	69.4	71.3	54.5	39	111.3	72.4	78.4	55
25-Mar	81	66.5	73.6	55	40	110.6	73.4	80.7	56.1
1-Apr	81	69.6	74.5	57.4	45	116.9	74.3	87.3	61.8
8-Apr	82	69.4	75.6	58.2	45	117.6	74.3	89.4	61.9
15-Apr	82	69.3	76.6	59.1	45	122.5	76.4	89.7	65.2
22-Apr	84	71.5	78.5	61.3	48	127.4	76.3	95.9	71.6
29-Apr	86	70.8	80.3	63.5	52	132.3	79.9	103.6	75.8
6-May	86	75	81.1	63.8	52	148.4	83.2	103.4	77.9
13-May	88	75.1	83.1	67.8	58	149.1	83.9	114.8	89.4
20-May	88	72.8	84.1	67.3	57	144.9	80.9	112.1	88.6
27-May	90	74.4	86.1	70.1	63	135.8	81.4	120.3	97.1
4-Jun	91	76	87.4	71.1	64	150.5	83.5	126.6	100.9
10-Jun	93	75.2	88.7	73.2	68	149.8	82.8	130.9	106.6
17-Jun	93	77.9	89.5	73.6	67	151.9	85.4	135.3	110.4
24-Jun	94	78.3	89.8	74.1	71	158.2	86.5	136.3	110.9
1-Jul	95	76.9	90	74.7	72	154.7	87.4	138.7	113.3
8-Jul	95	77.1	90.9	75.1	72	151.2	84.7	140	114.9
15-Jul	95	77.6	91	75	72	149.8	84.9	141	116.2
22-Jul	95	78.7	91	75	73	150.5	85.2	142.5	115.4
29-Jul	95	78.7	91.2	75	72	154	86.8	142.6	116.6
5-Aug	97	77.7	92.3	75	72	154.7	87.3	142.9	116.7
12-Aug	97	79.3	92.1	75.2	70	156.1	85.4	142.4	115.4
19-Aug	97	77.9	91.3	74.8	69	158.2	84.8	140.5	114
26-Aug	96	80	91.3	74.9	72	158.2	85.4	142.5	115.8
2-Sep	99	77.4	90.7	74	69	149.8	83	136.3	109.7
9-Sep	95	76.4	89.4	72.8	64	149.8	82	131	104
16-Sep	93	76.5	88.4	72.2	64	150.5	82.5	129.6	103.2
23-Sep	93	76.1	88.1	70.7	61	150.5	82.5	126.3	97.3
30-Sep	91	76.7	85.6	66.5	55	149.1	83.3	110	83.1
7-Oct	90	76.5	84.5	65.6	54	149.8	81.7	109.6	81.7
14-Oct	88	73.5	81.6	62.7	50	140.7	81.7	101.7	74.9
21-Oct	88	75.6	80.4	60.6	48	141.4	80.4	99.8	70.5
28-Oct	86	73.6	77.8	58.3	45	133	80.2	91.7	65.4
4-Nov	84	71.7	75.7	56.2	39	130.2	77.8	89.5	61.9
11-Nov	83	74.2	73.6	54.6	39	126	76.9	82.9	56.5
18-Nov	82	71.8	71.2	52.8	37	123.9	76.3	79.2	52
25-Nov	79	69.7	69.6	50.3	37	116.9	74.7	74.9	47.8
2-Dec	79	70.9	67.9	48.3	34	119	75.2	71.7	44.9
9-Dec	79	71	65.5	47.8	32	116.2	74.3	69.9	45
16-Dec	77	69	64.4	46.3	32	114.1	74.1	66	40.9
23-Dec	76	71.4	63.7	46.2	26	114.8	74.1	67.3	41.8
31-Dec	76	72.6	61.2	44.1	30	119	75.9	59.9	37.8

Degree Days, Heating and Cooling (Base 65 F) & Cooling (Base 50F)



Month	Mean Cooling Degree Days (°F) Base 50	Mean Cooling Degree Days (°F) Base 65	Mean Heating Degree Days (°F) Base 65
JAN	197.2	23.1	391.3
FEB	237.3	32.3	278
MAR	402.9	81.9	167.5
APR	567.3	175.3	60.6
MAY	794.4	339.9	10.6
JUN	926.4	476.5	0.1
JUL	998.5	533.6	0
AUG	995.8	530.8	0
SEP	852.6	407.8	5.3
OCT	629.6	223.8	62.1
NOV	369.5	84.2	193.6
DEC	231.6	35.5	356.9
ANN	7203.1	2944.7	1526

Average Ventilation and Infiltration Loads (Outside Air vs 75F, 60% RH summer; 68F, 30% RH winter)



Month	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	14	-12236	1100	-1060
FEB	33	-8974	1353	-592
MAR	166	-5834	2988	-339
APR	701	-2396	6226	-42
MAY	2554	-537	13503	-1
JUN	4911	-18	21368	0
JUL	5893	-1	25497	0
AUG	5890	-6	24951	0
SEP	3822	-284	16944	-3
OCT	1481	-2425	8253	-34
NOV	250	-6527	3318	-295
DEC	42	-11220	1909	-832
ANN	25757	-50458	127410	-3198

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	PORTARTHUR, TX 12917	Window:	1.000
Lat, Lon, Elev	29.95N 94.02W 23ft	Overhang:	0.875
Press, Stn_Type	14.7psia Secondary	Vert Gap:	0.648

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	1110	1370	1630	1850	1990	1920	1810	1580	1360	980	810	1440
	Std.Dev.	69	94	109	140	136	136	110	102	88	96	85	55	32
	Minimum	730	920	1190	1370	1570	1730	1640	1650	1400	1130	710	710	1380
	Maximum	990	1280	1620	2040	2190	2190	2120	1970	1750	1520	1160	930	1500
	Diffuse	430	490	630	750	830	840	860	790	680	510	420	380	640
Clear Day	Global	1300	1610	2000	2330	2500	2550	2490	2330	2040	1670	1330	1190	1950
NORTH	Global	260	310	380	460	560	630	600	500	410	340	280	240	410
	Diffuse	260	310	380	450	500	520	510	470	410	340	280	240	390
Clear Day	Global	240	290	350	430	590	690	640	490	390	320	260	230	410
EAST	Global	510	650	760	880	970	1050	1030	1010	910	800	590	500	810
	Diffuse	310	370	460	540	600	630	620	590	520	430	330	290	470
Clear Day	Global	870	1020	1190	1310	1350	1330	1310	1260	1170	1020	860	800	1130
SOUTH	Global	1020	1090	970	800	650	580	610	760	990	1230	1150	1050	910
	Diffuse	400	450	500	520	520	510	520	540	540	500	430	380	490
Clear Day	Global	2000	1890	1550	1070	730	610	660	910	1330	1700	1890	1960	1350
WEST	Global	540	680	810	920	1010	1060	1010	970	890	820	620	510	820
	Diffuse	310	380	460	550	610	630	620	590	520	430	340	290	480
Clear Day	Global	870	1020	1190	1310	1350	1330	1310	1260	1170	1020	860	800	1130

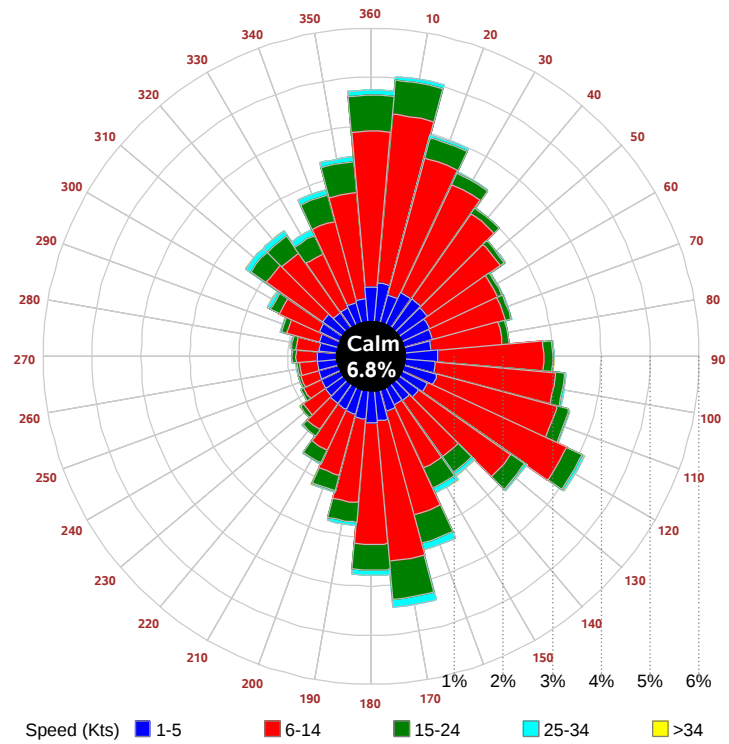
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	780	980	1180	1350	1450	1400	1320	1140	970	680	550	1030
NORTH	Unshaded	180	220	270	310	360	400	380	330	280	240	190	170	280
	Shaded	160	190	230	270	310	350	330	290	250	210	170	140	240
EAST	Unshaded	350	460	540	620	680	740	730	720	650	560	410	340	570
	Shaded	300	390	450	510	560	610	610	590	540	470	350	300	470
SOUTH	Unshaded	750	770	640	490	390	370	380	460	630	850	840	780	610
	Shaded	700	630	380	310	320	320	320	330	340	610	760	750	480
WEST	Unshaded	370	480	570	650	720	750	710	690	630	580	430	350	580
	Shaded	320	410	480	540	590	610	590	570	530	490	370	300	480

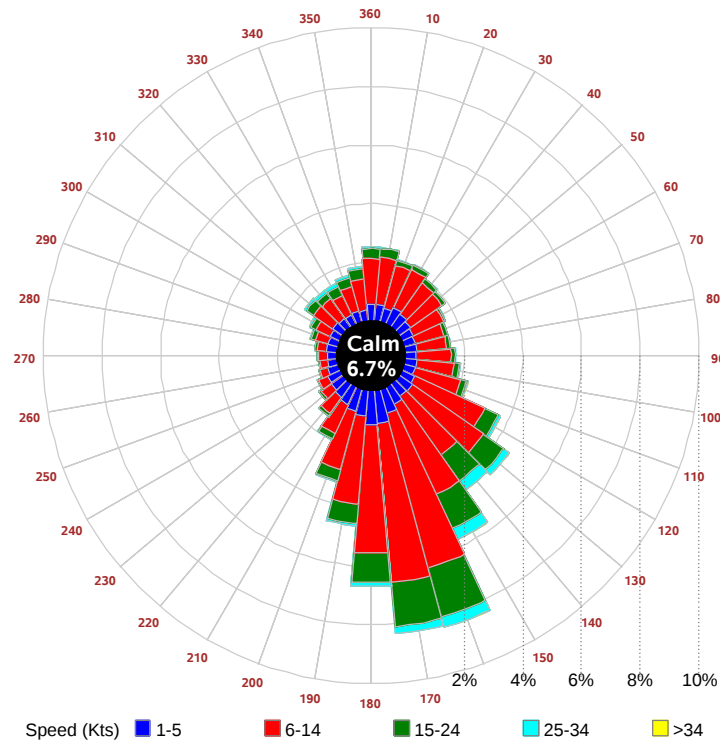
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	41	80	94	78	37	37	79	102	98	70	
	M.Cloudy	22	48	57	45	22	27	60	77	75	52	
NORTH	M.Clear	10	15	16	15	10	23	18	17	18	20	
	M.Cloudy	9	17	19	16	9	17	18	19	19	19	
EAST	M.Clear	77	63	16	15	10	63	73	37	18	17	
	M.Cloudy	22	33	19	16	9	37	52	32	19	17	
SOUTH	M.Clear	33	62	72	60	29	12	18	29	28	17	
	M.Cloudy	14	33	41	31	14	11	18	26	26	17	
WEST	M.Clear	10	15	18	67	75	12	17	17	48	75	
	M.Cloudy	9	17	19	33	26	11	18	19	39	50	
M.Clear	(% hrs)	31	29	29	32	35	45	37	36	40	43	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	24	69	92	87	54	22	55	64	47	10	
	M.Cloudy	17	49	64	64	40	12	31	37	26	7	
NORTH	M.Clear	9	16	18	17	14	7	12	13	10	4	
	M.Cloudy	7	16	18	19	14	5	12	14	10	3	
EAST	M.Clear	54	73	35	17	14	54	48	13	10	4	
	M.Cloudy	24	45	29	19	14	14	22	14	10	3	
SOUTH	M.Clear	15	46	63	60	36	44	81	90	73	24	
	M.Cloudy	9	31	43	42	24	12	31	37	26	7	
WEST	M.Clear	9	16	18	51	73	7	12	20	56	35	
	M.Cloudy	7	16	18	38	43	5	12	16	22	9	
M.Clear	(% hrs)	50	40	36	35	39	31	31	31	33	34	

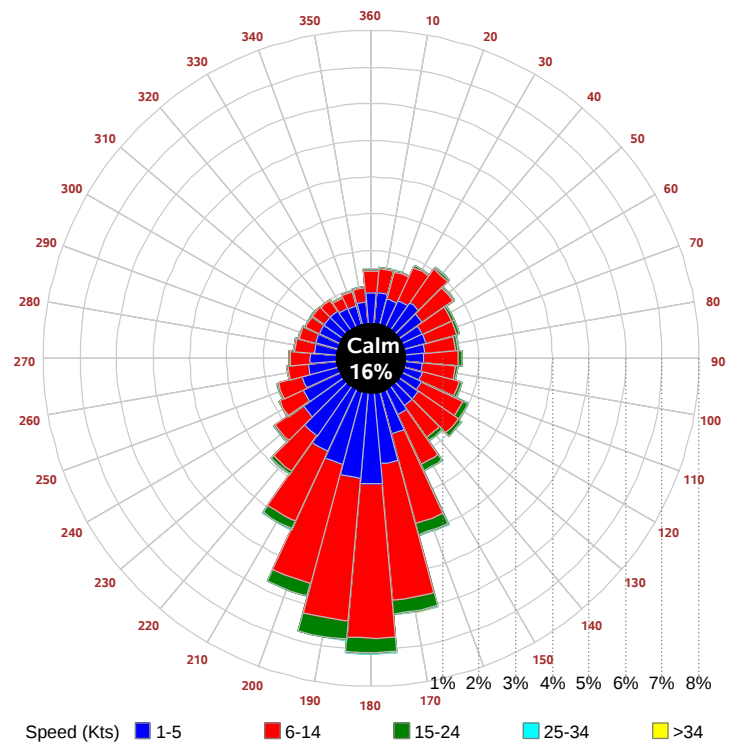
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

