

DALLAS LOVE FLD, TX

Latitude = 32.85 N

Longitude = 96.85 W

Period of Record = 1988 To 2017

Station ID = ICAO_KDAL

Elevation = 487 Feet

Average Pressure = 29.49 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	104	75	85	8	S
0.4% Occurrence	101	75	90	9	S
1.0% Occurrence	99	75	94	9.4	S
2.0% Occurrence	97	75	97	9.9	S
Mean Daily Range	18	-	-	-	N
97.5% Occurrence	34	31	20	7.5	N
99.0% Occurrence	28	25	14	8.5	N
99.6% Occurrence	24	21	11	9.8	N
Median of Extreme Lows	19	17	9	10.9	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	80	93	132	10.8	S
0.4% Occurrence	79	92	126	10.3	S
1.0% Occurrence	78	91	122	10.2	S
2.0% Occurrence	77	90	118	10.1	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	143	88	0.94	10.8	SE
0.4% Occurrence	134	85	0.88	9.9	S
1.0% Occurrence	129	83	0.84	9	S
2.0% Occurrence	127	83	0.83	9.7	S

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	504	2467	1856	3426

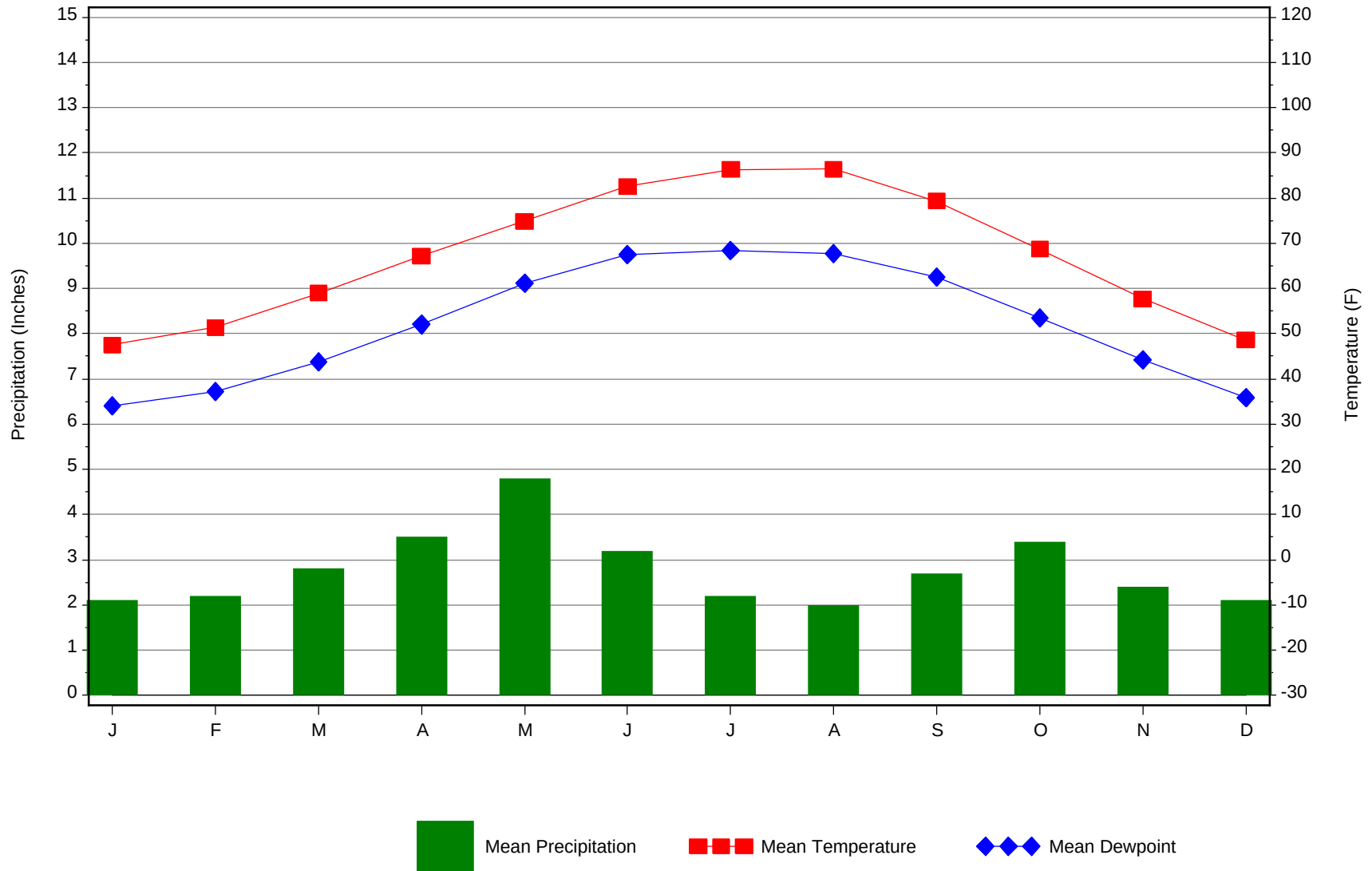
Other Site Data

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	1.5	90	5.0 + 2.9
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 (#)
70	N/A	N/A	13

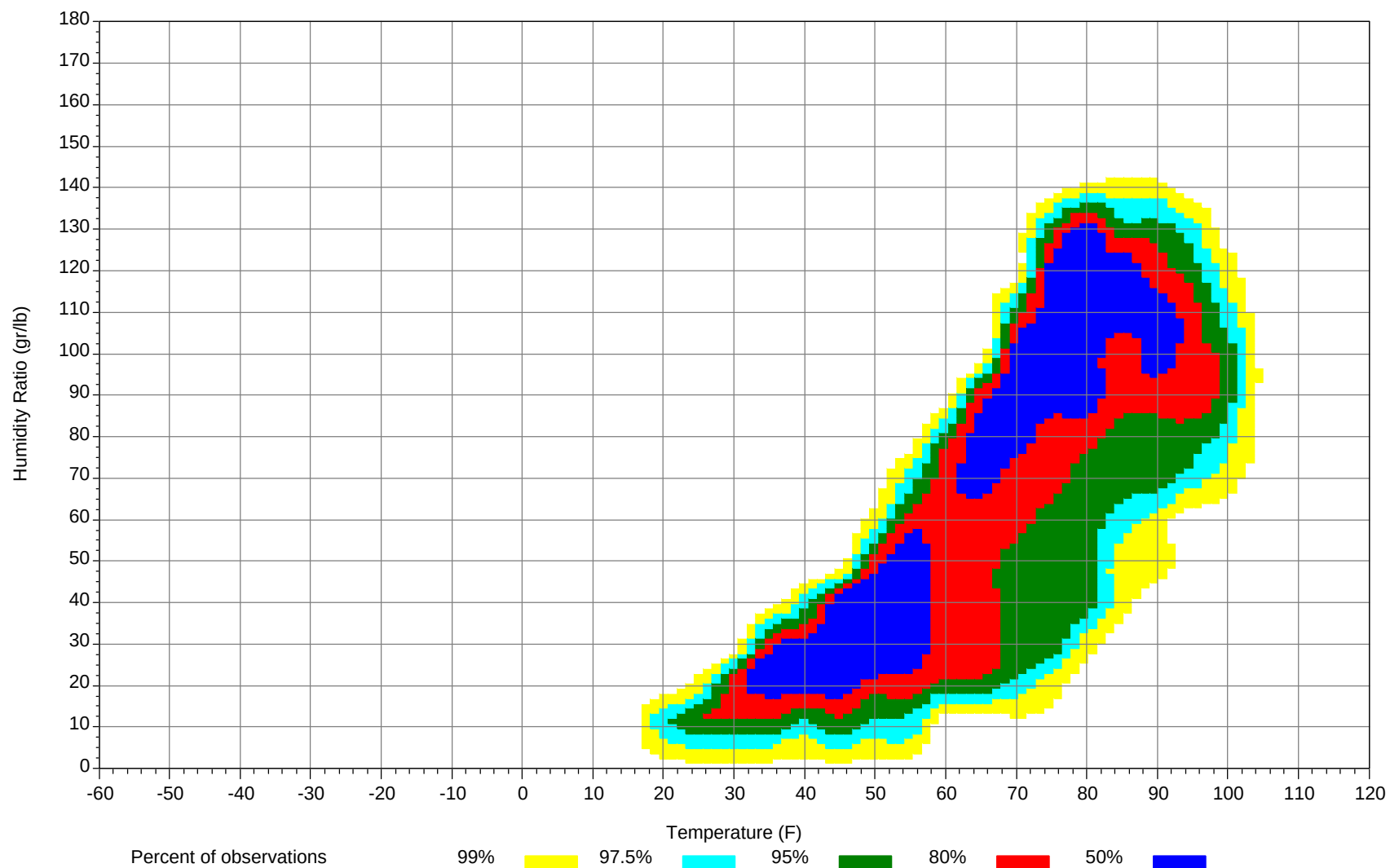
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



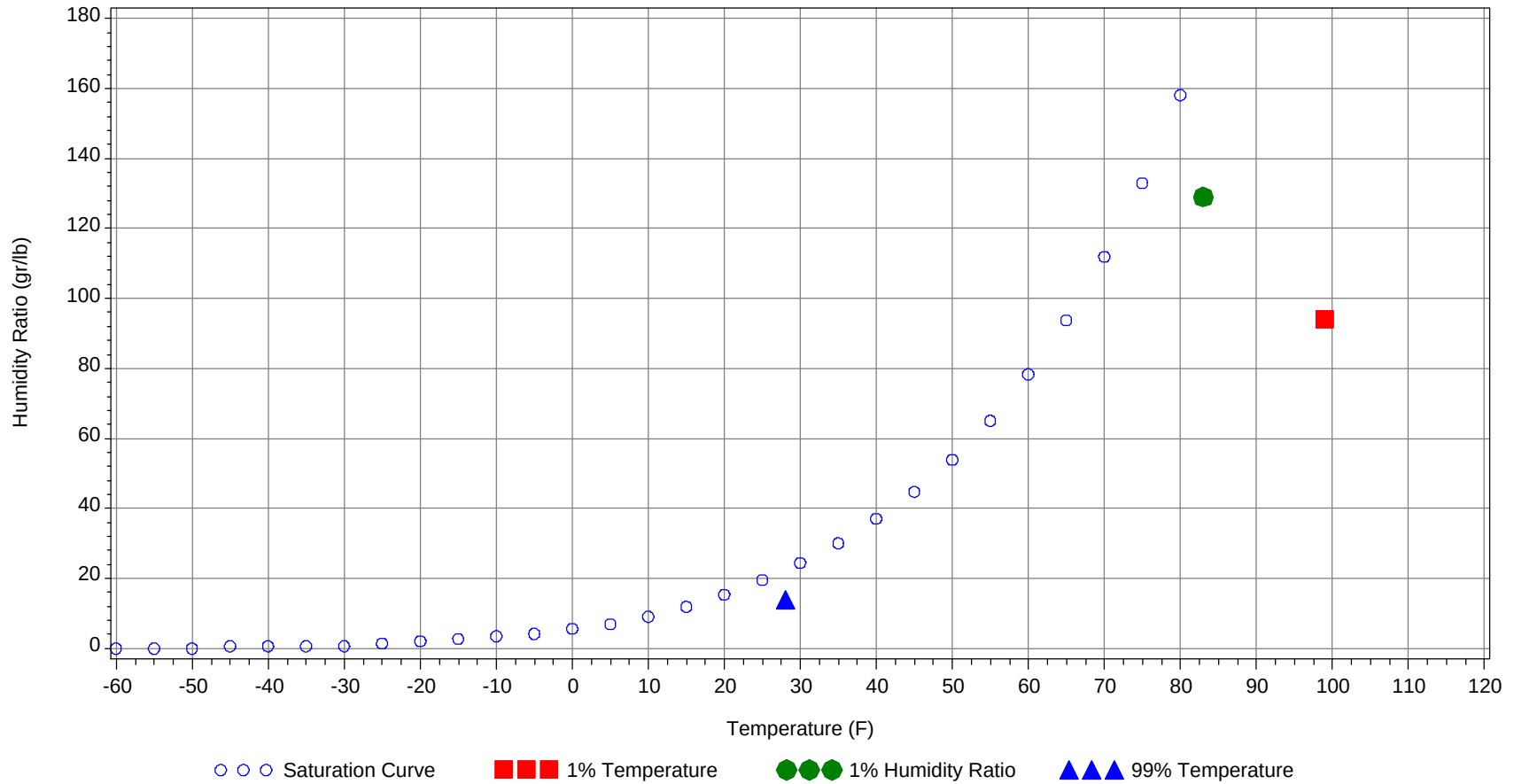
Average Annual Climate



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	99.0		75		94.0	38.7
99.0% Dry Bulb	28.0				14.0	8.9
1.0% Humidity Ratio	129.0	83.0	76.5	73.9		40.2

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							0	0	0	64.3					
90/ 94							0	0	0	62.3		0	0	0	64.5
85/ 89							0	0	0	63.8		2	1	3	64.3
80/ 84		1	0	1	57.9		3	1	4	61.8	0	12	6	18	64.9
75/ 79		5	2	7	60.2	0	8	5	13	61.1	0	26	20	46	62.7
70/ 74	1	14	10	25	59.3	2	22	16	40	59.9	11	41	42	94	61.1
65/ 69	6	16	13	35	58	9	20	20	49	57.6	26	31	32	89	58.3
60/ 64	12	28	25	65	53.6	19	31	33	83	53.8	38	41	44	123	54.6
55/ 59	15	31	29	75	49.4	22	31	31	84	49.1	38	33	37	108	50.1
50/ 54	26	35	38	99	45.4	31	32	35	98	45.2	47	27	30	104	46.2
45/ 49	44	37	45	126	41.6	45	30	34	109	41.6	40	18	20	78	41.8
40/ 44	37	28	30	95	37.6	31	17	20	68	38.1	21	8	9	38	38
35/ 39	51	30	31	112	33.6	34	15	15	64	34	17	6	5	28	33.8
30/ 34	33	16	16	65	29	19	8	7	34	29.5	6	2	2	10	29.1
25/ 29	16	5	6	27	23.9	7	4	4	15	24.4	3	1	1	5	23.7
20/ 24	5	2	2	9	19.1	3	1	2	6	20	1	1	0	2	20.4
15/ 19	2	0	0	2	15.8	3	2	1	6	15.9	0	0		0	16.1
10/ 14						0	0		0	12.1					
5/ 9															
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.

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												0		0	76.3
100/104							0	0	0	73.3		2	1	3	75
95/ 99		0	0	0	68.2		3	1	4	74	0	23	12	35	75
90/ 94		2	1	3	69.6		22	11	33	73.3	0	74	49	123	74.5
85/ 89		9	3	12	68.9	0	34	24	58	72	4	55	52	111	73.6
80/ 84	0	36	22	58	67.2	6	68	61	135	70.3	64	54	70	188	72.7
75/ 79	4	52	46	102	64.9	51	55	58	164	68.4	101	20	38	159	71.2
70/ 74	42	56	63	161	62.9	80	39	50	169	65.5	56	10	17	83	68.1
65/ 69	40	28	31	99	59.6	47	14	25	86	61.8	12	1	2	15	63.9
60/ 64	55	30	37	122	55.6	41	10	13	64	57.7	3	0	0	3	59.1
55/ 59	45	16	21	82	51	16	2	4	22	52.6	0			0	53.3
50/ 54	31	8	10	49	46.8	6	1	1	8	48.4					
45/ 49	16	3	4	23	42.4	1	0	1	2	44					
40/ 44	5	1	1	7	38.2	0			0	39.1					
35/ 39	2	0	0	2	34										
30/ 34															
25/ 29															
20/ 24															
15/ 19															
10/ 14															
5/ 9															
0/ 4															

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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		1	0	1	75.6		3	1	4	74.3		1	0	1	73
100/104		16	8	24	74.9		23	11	34	74.9		3	1	4	73.9
95/ 99	0	57	37	94	75.4	0	61	39	100	75.1		18	8	26	74.1
90/ 94	2	82	73	157	74.8	5	70	66	141	74.5	0	50	30	80	72.8
85/ 89	22	46	55	123	74.3	27	42	50	119	74	4	47	38	89	71.7
80/ 84	118	33	48	199	73.5	115	31	49	195	73.3	37	57	65	159	70.6
75/ 79	85	10	23	118	72.1	73	13	24	110	71.7	70	34	48	152	69.2
70/ 74	19	3	5	27	69	24	5	7	36	68.5	70	19	29	118	65.7
65/ 69	2	0	0	2	64.3	4	1	1	6	63.5	25	7	11	43	60.7
60/ 64	0			0	63	1		0	1	60	21	4	8	33	56.8
55/ 59											9	1	2	12	52.8
50/ 54											3	0	1	4	48.3
45/ 49											0			0	45.5
40/ 44															
35/ 39															
30/ 34															
25/ 29															
20/ 24															
15/ 19															
10/ 14															
5/ 9															
0/ 4															

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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		1		1	68.5										
90/ 94	0	10	3	13	71.1		0	0	0	66.3					
85/ 89	0	20	9	29	69.4		1	0	1	66.7		0		0	61
80/ 84	1	47	29	77	67.5		8	3	11	67		1	0	1	63.4
75/ 79	20	48	44	112	66	1	22	12	35	64.8	0	5	2	7	63.8
70/ 74	43	46	55	144	63.2	13	38	30	81	62.6	3	17	10	30	61.2
65/ 69	38	28	35	101	59.7	17	29	29	75	59.3	8	17	13	38	59.2
60/ 64	58	27	37	122	56.2	36	44	45	125	55.3	14	30	28	72	54.6
55/ 59	43	13	20	76	51.4	34	34	37	105	50.1	16	30	27	73	49.5
50/ 54	26	7	11	44	47.2	41	30	39	110	46.4	29	41	42	112	45.8
45/ 49	14	2	4	20	42.9	44	19	25	88	41.8	44	44	51	139	41.4
40/ 44	4	1	1	6	38.5	22	8	12	42	37.5	40	24	28	92	37.9
35/ 39	1	0	1	2	34.1	23	5	8	36	33.9	49	23	26	98	33.7
30/ 34	0		0	0	28.9	8	2	2	12	29.7	27	9	12	48	29.2
25/ 29	0			0	25	2	0	1	3	25.5	11	5	5	21	24.3
20/ 24						0			0	20.7	3	1	1	5	19
15/ 19											2	1	1	4	15.4
10/ 14											1	0	0	1	10.1
5/ 9											0	0	0	0	5.1
0/ 4											0	0		0	1.6

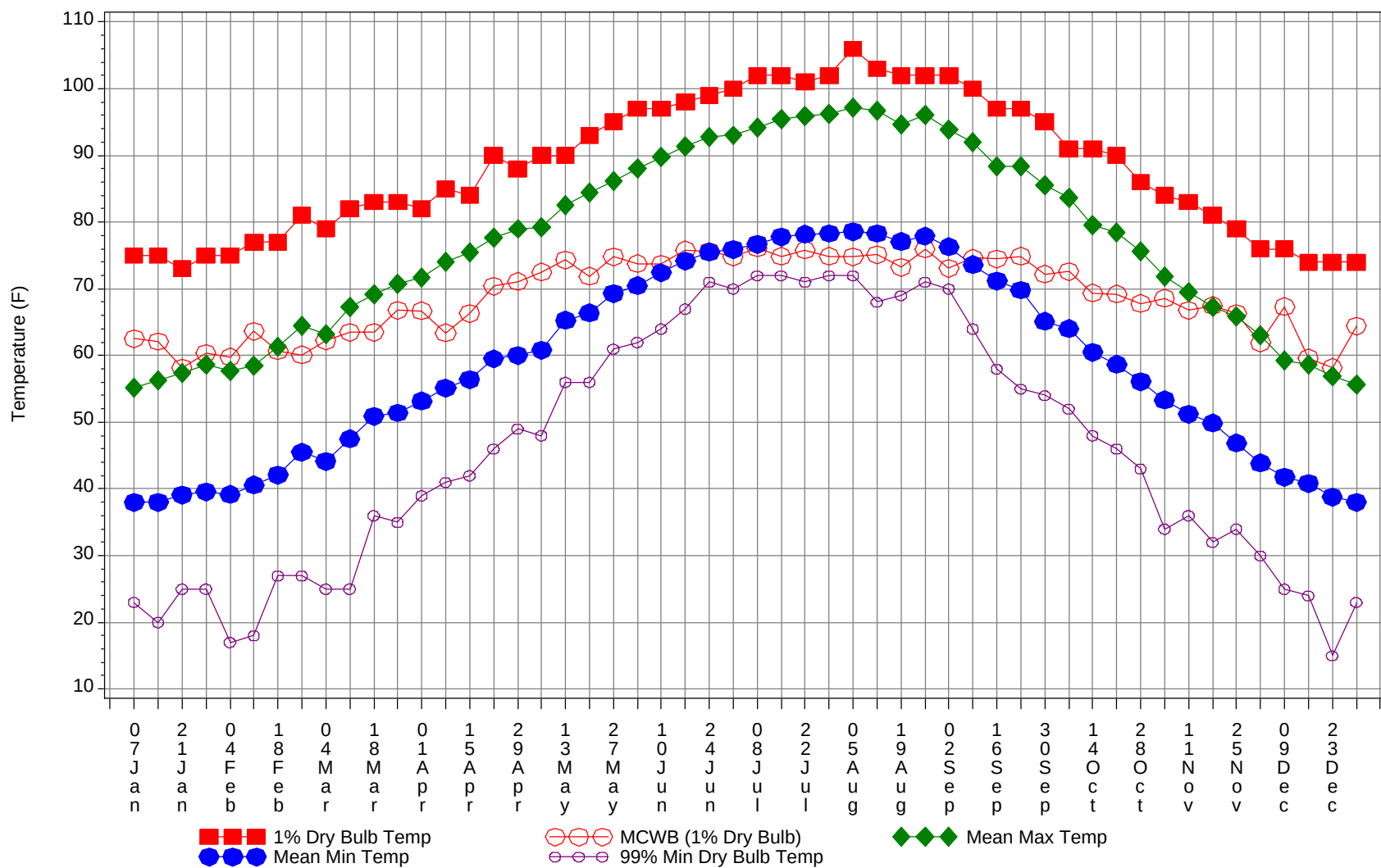
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Dry-Bulb Temperature Hours For An Average Year

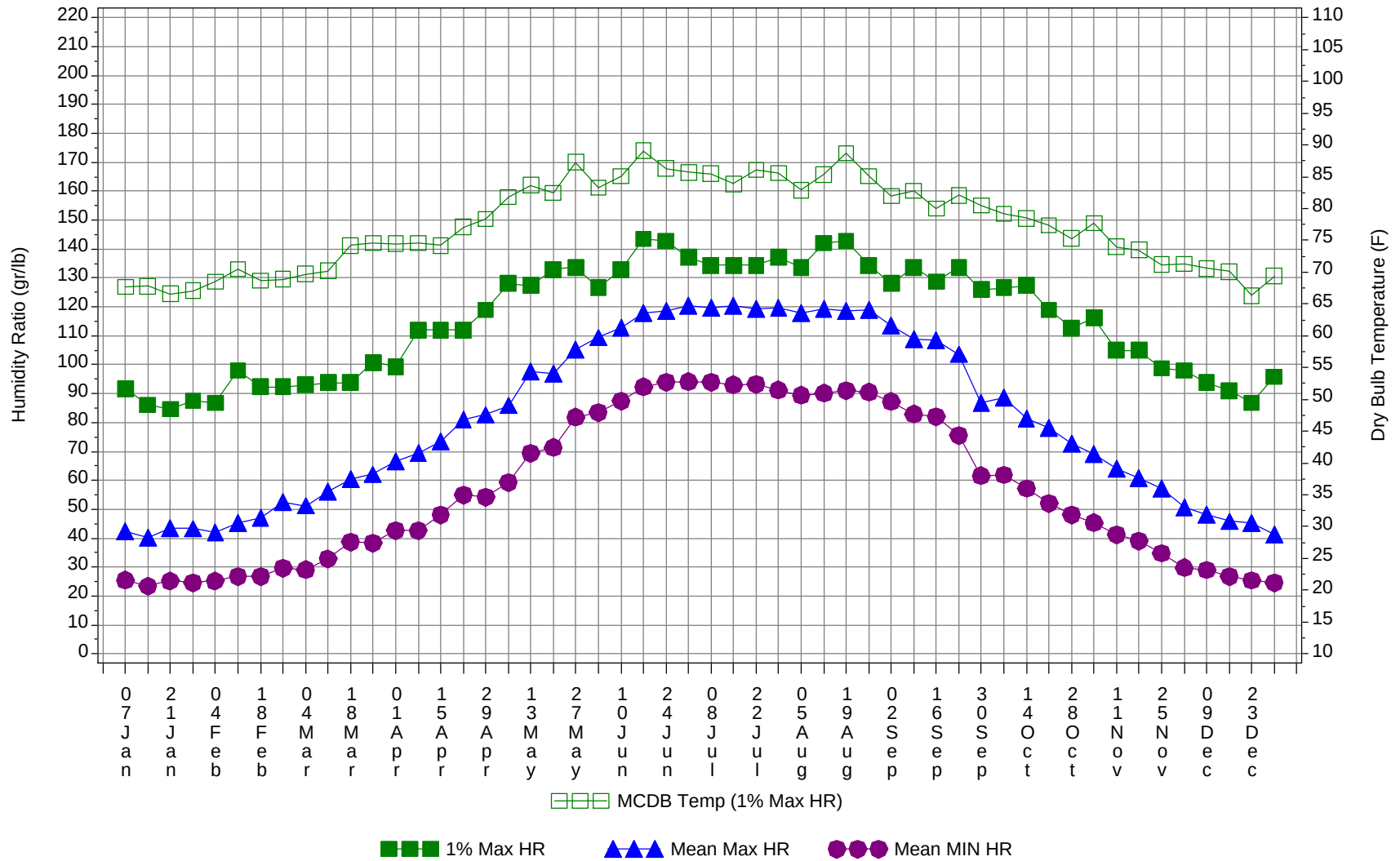
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109		5	2	7	74.4
100/104		45	22	67	74.8
95/ 99	0	162	97	259	75
90/ 94	8	310	232	550	74.1
85/ 89	56	255	231	542	72.9
80/ 84	341	349	352	1042	71.4
75/ 79	403	298	320	1021	68.6
70/ 74	364	309	333	1006	64
65/ 69	234	192	212	638	59.7
60/ 64	298	244	269	811	55.3
55/ 59	239	192	207	638	50.2
50/ 54	240	181	206	627	46
45/ 49	248	153	185	586	41.7
40/ 44	159	86	102	347	37.8
35/ 39	177	79	87	343	33.7
30/ 34	94	36	40	170	29.2
25/ 29	39	16	17	72	24.1
20/ 24	12	5	5	22	19.4
15/ 19	8	3	2	13	15.7
10/ 14	1	0	0	1	10.8
5/ 9	0	0	0	0	5.1
0/ 4	0	0	0	0	1.6

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Annual Summary of Temperatures



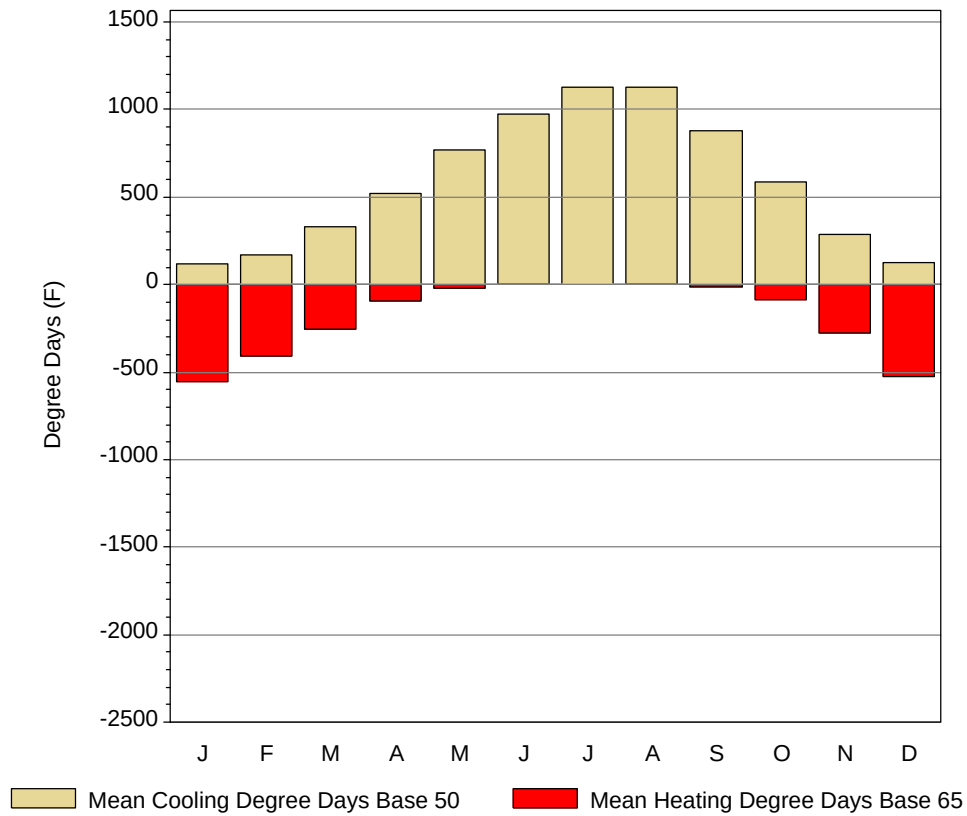
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

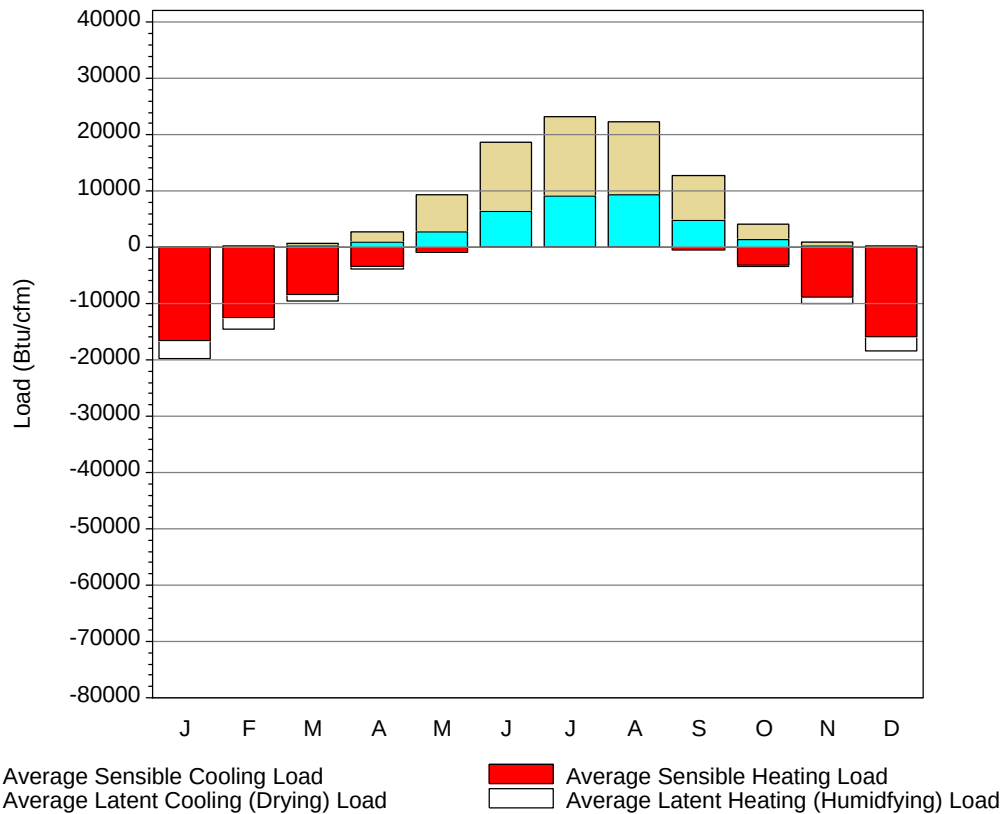
Week Ending	1.0% Temp (°F)	MCWB@ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB@ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	75	62.5	55.1	38	23	91.7	67.7	42.5	25.5
14-Jan	75	62.1	56.2	38	20	86.1	67.8	40.1	23.4
21-Jan	73	58.1	57.3	39.1	25	84.7	66.6	43.4	25.2
28-Jan	75	60.3	58.7	39.6	25	87.5	67.1	43.3	24.5
4-Feb	75	59.8	57.7	39.2	17	86.8	68.5	42	25.2
11-Feb	77	63.6	58.5	40.6	18	98	70.5	45.2	26.8
18-Feb	77	60.7	61.3	42.1	27	92.4	68.7	47.1	26.8
25-Feb	81	60.1	64.4	45.5	27	92.4	68.9	52.6	29.6
4-Mar	79	62.2	63.2	44.1	25	93.1	69.7	51.2	29.1
11-Mar	82	63.5	67.3	47.5	25	93.8	70.2	56.2	32.8
18-Mar	83	63.5	69.1	50.9	36	93.8	74.2	60.5	38.6
25-Mar	83	66.8	70.7	51.4	35	100.8	74.6	62.1	38.3
1-Apr	82	66.7	71.7	53.2	39	99.4	74.5	66.7	42.7
8-Apr	85	63.4	74	55.1	41	112	74.6	69.6	42.6
15-Apr	84	66.3	75.4	56.4	42	112	74.2	73.5	48
22-Apr	90	70.4	77.7	59.5	46	112	77.1	81.1	55
29-Apr	88	71.1	79	60	49	119	78.4	82.7	54.2
6-May	90	72.5	79.3	60.8	48	128.1	81.8	85.9	59.2
13-May	90	74.3	82.5	65.3	56	127.4	83.7	97.6	69.4
20-May	93	71.9	84.4	66.4	56	133	82.5	96.8	71.3
27-May	95	74.8	86.1	69.3	61	133.7	87.3	105.2	81.8
4-Jun	97	73.8	88	70.5	62	126.7	83.3	109.4	83.4
10-Jun	97	73.7	89.7	72.4	64	133	85.1	112.8	87.4
17-Jun	98	75.8	91.4	74.2	67	143.5	89.1	117.9	92.3
24-Jun	99	75.6	92.8	75.5	71	142.8	86.3	118.5	93.9
1-Jul	100	74.8	93	75.9	70	137.2	85.7	120.3	94.1
8-Jul	102	76.1	94.2	76.7	72	134.4	85.5	119.6	94
15-Jul	102	74.9	95.5	77.8	72	134.4	83.9	120.5	93.1
22-Jul	101	75.8	95.9	78.2	71	134.4	86.1	119.3	93.2
29-Jul	102	74.9	96.2	78.3	72	137.2	85.6	119.7	91.2
5-Aug	106	74.8	97.1	78.6	72	133.7	82.9	117.9	89.5
12-Aug	103	75.1	96.7	78.3	68	142.1	85.4	119.4	90.1
19-Aug	102	73.2	94.7	77.1	69	142.8	88.7	118.6	91.1
26-Aug	102	76	96	77.9	71	134.4	85.1	119	90.5
2-Sep	102	73.1	93.9	76.3	70	128.1	82	113.5	87.3
9-Sep	100	74.6	91.9	73.6	64	133.7	82.8	108.8	83
16-Sep	97	74.5	88.4	71.2	58	128.8	80	108.5	82.1
23-Sep	97	74.9	88.3	69.8	55	133.7	82.1	103.6	75.5
30-Sep	95	72.2	85.6	65.1	54	126	80.5	86.9	61.6
7-Oct	91	72.6	83.6	64	52	126.7	79.2	88.6	61.9
14-Oct	91	69.4	79.6	60.5	48	127.4	78.5	81.3	57.2
21-Oct	90	69.2	78.5	58.7	46	119	77.4	78.1	52
28-Oct	86	67.8	75.6	56.1	43	112.7	75.3	72.6	48.1
4-Nov	84	68.6	71.8	53.3	34	116.2	77.7	69.1	45.4
11-Nov	83	66.8	69.5	51.2	36	105	74	64	41.2
18-Nov	81	67.5	67.3	49.9	32	105	73.5	60.8	39.1
25-Nov	79	66.3	65.8	46.9	34	98.7	71.2	57.3	34.8
2-Dec	76	61.9	63.1	43.9	30	98	71.3	50.8	29.8
9-Dec	76	67.3	59.3	41.8	25	93.8	70.6	48.2	29
16-Dec	74	59.6	58.7	40.8	24	91	70.1	45.8	26.8
23-Dec	74	58.2	56.9	38.8	15	86.8	66.3	45.4	25.4
31-Dec	74	64.4	55.6	38	23	95.9	69.4	41.4	24.6

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	117.9	12.9	556.3
FEB	166.3	24.3	408.5
MAR	328.9	69.9	257.7
APR	520.4	157	93
MAY	772.4	325.9	18.9
JUN	977.9	528.2	0.3
JUL	1125.8	660.8	0
AUG	1129.3	664.3	0.1
SEP	878.6	438.2	9.6
OCT	585	198	83.5
NOV	283.8	53.8	274.4
DEC	129.1	14.9	523.5
ANN	7015.4	3148.2	2225.8

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	15	-16661	114	-2979
FEB	62	-12507	188	-2014
MAR	255	-8400	499	-1200
APR	820	-3461	1881	-290
MAY	2765	-901	6599	-21
JUN	6324	-34	12290	0
JUL	9175	-1	13953	0
AUG	9337	-9	12883	0
SEP	4860	-456	7904	-4
OCT	1392	-3165	2744	-194
NOV	160	-8886	692	-1107
DEC	24	-15789	206	-2549
ANN	35189	-70270	59953	-10358

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	FORTWORTH, TX 03927	Window:	1.000
Lat, Lon, Elev	32.83N 97.05W 538ft	Overhang:	0.991
Press, Stn_Type	14.4psia Primary	Vert Gap:	0.660

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

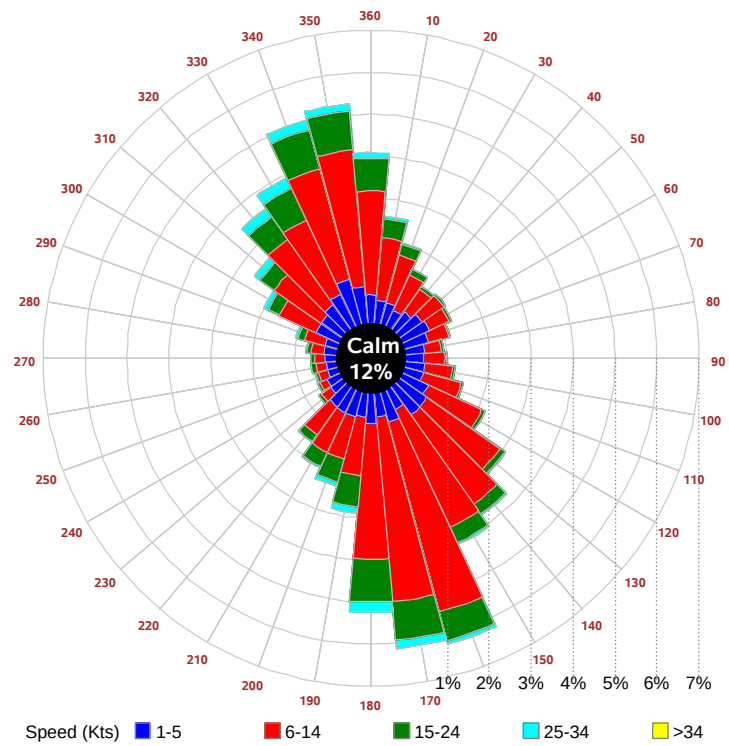
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	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

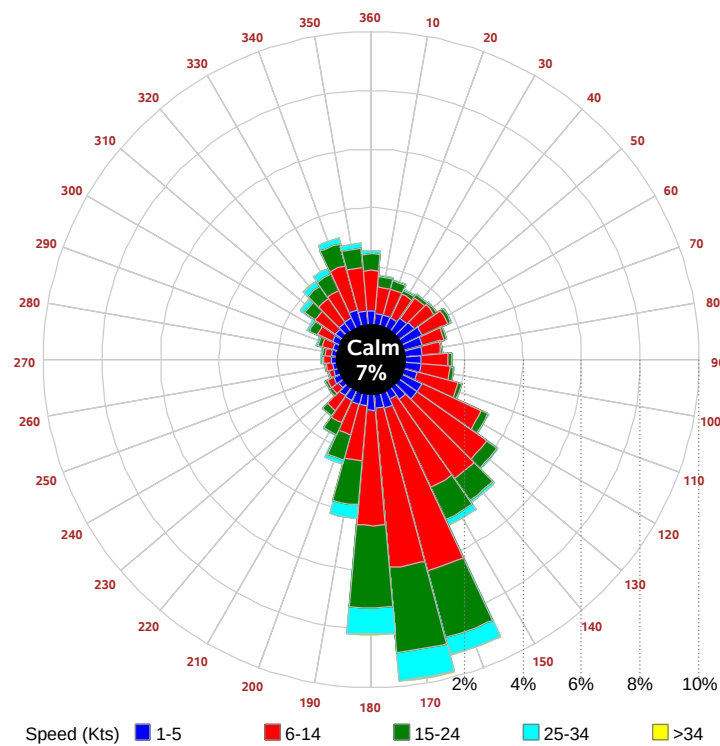
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	35	76	92	79	41	36	80	105	103	77	
	M.Cloudy	20	48	59	52	26	25	59	80	83	60	
NORTH	M.Clear	9	14	16	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	

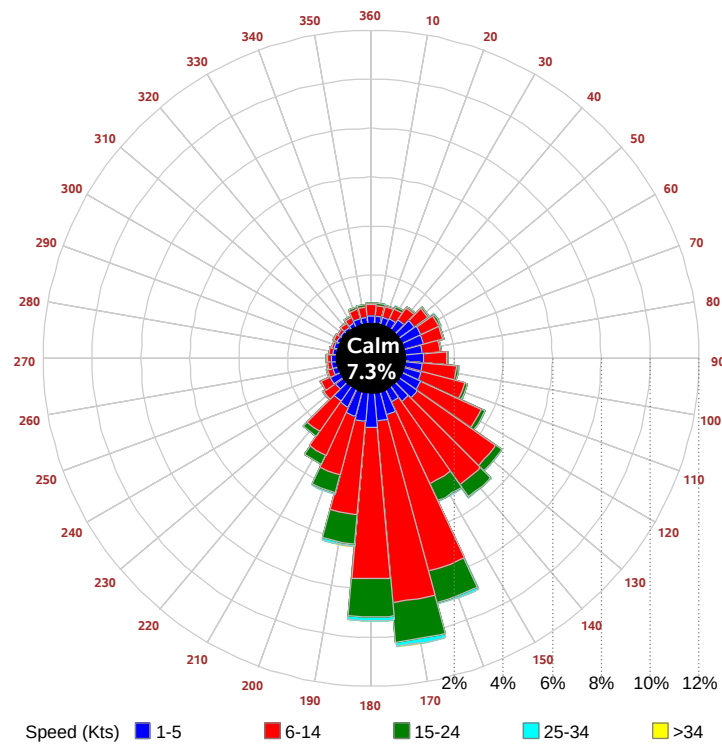
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

