

DALLAS FORT WORTH INTL, TX

Latitude = 32.90 N

Longitude = 97.04 W

Period of Record = 1988 To 2017

Station ID = ICAO_KDFW

Elevation = 607 Feet

Average Pressure = 29.38 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	74	81	9.9	S
0.4% Occurrence	100	75	91	10.2	S
1.0% Occurrence	99	75	91	10.2	S
2.0% Occurrence	97	75	97	10.6	S
Mean Daily Range	19	-	-	-	N
97.5% Occurrence	32	29	19	9.5	N
99.0% Occurrence	27	25	14	10.1	N
99.6% Occurrence	23	21	11	12.1	N
Median of Extreme Lows	18	16	9	12.2	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	92	133	12.1	S
0.4% Occurrence	79	92	127	11.7	S
1.0% Occurrence	78	91	123	11.4	S
2.0% Occurrence	77	90	119	11.2	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	144	86	0.94	11.3	S
0.4% Occurrence	135	84	0.88	11.4	S
1.0% Occurrence	130	83	0.84	10.6	S
2.0% Occurrence	127	82	0.83	10.4	S

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	466	2258	1708	3302

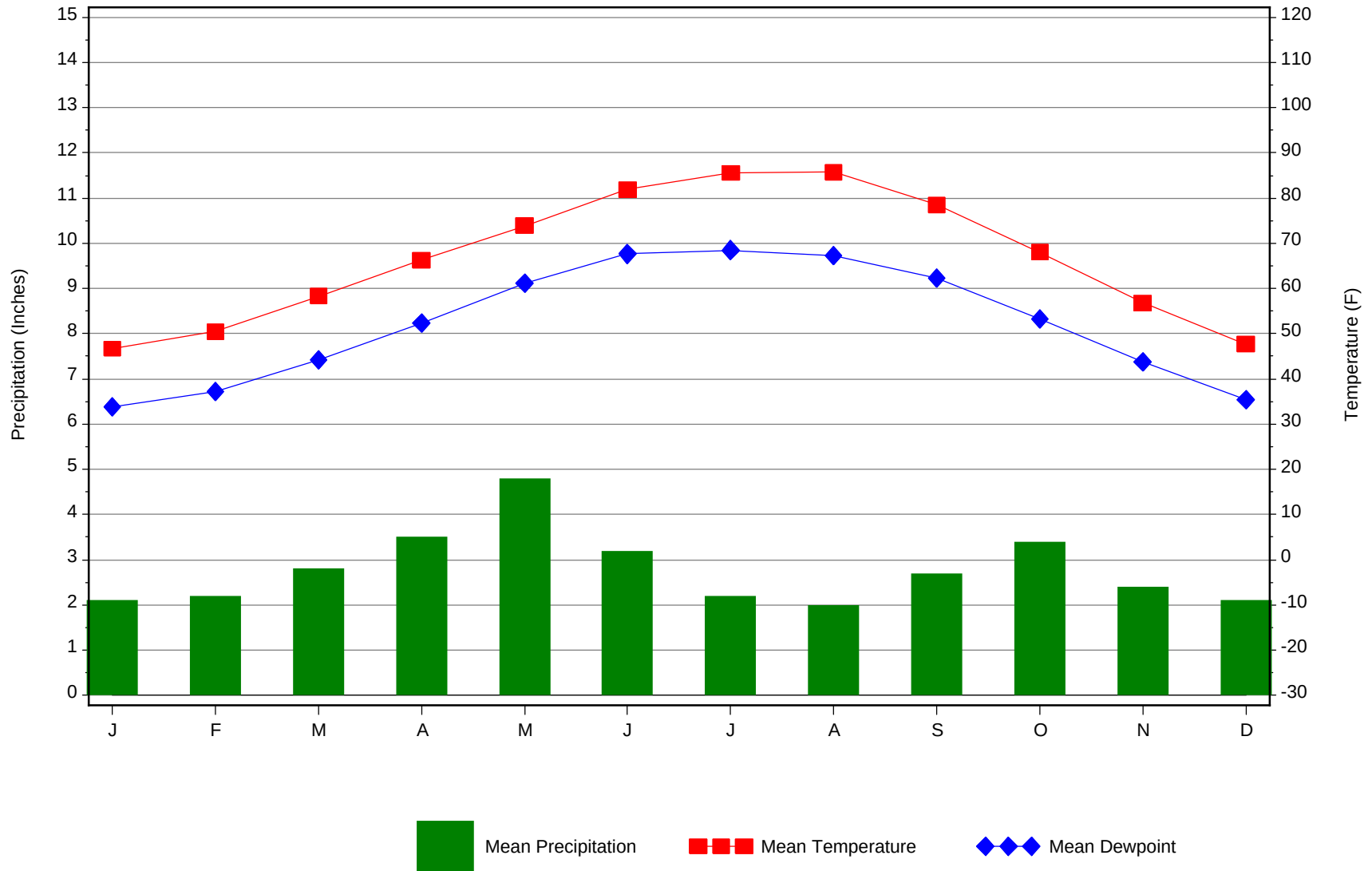
Other Site Data

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	N/A	N/A	4.9 + 2.8
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 (#)
69.4	N/A	N/A	17

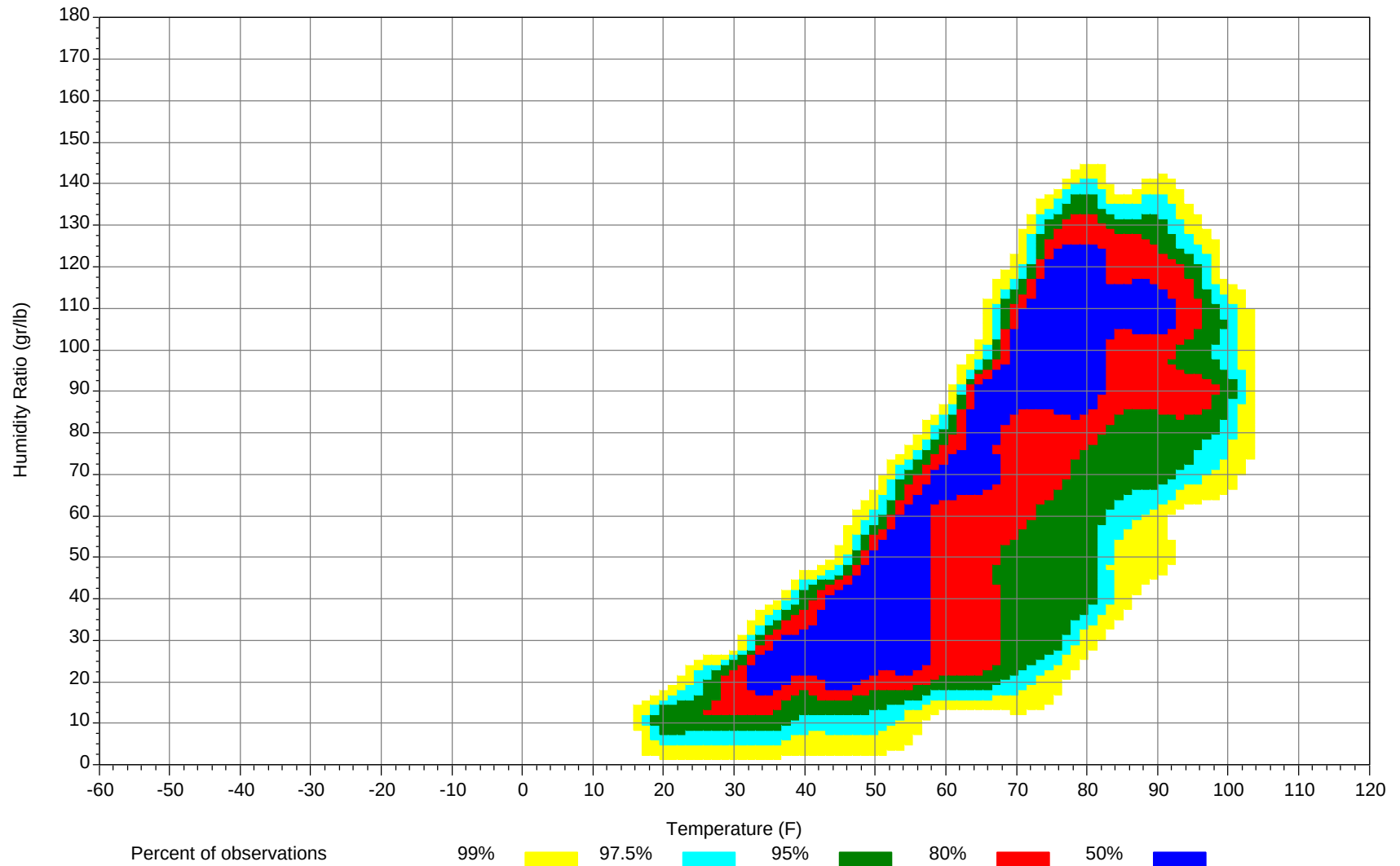
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



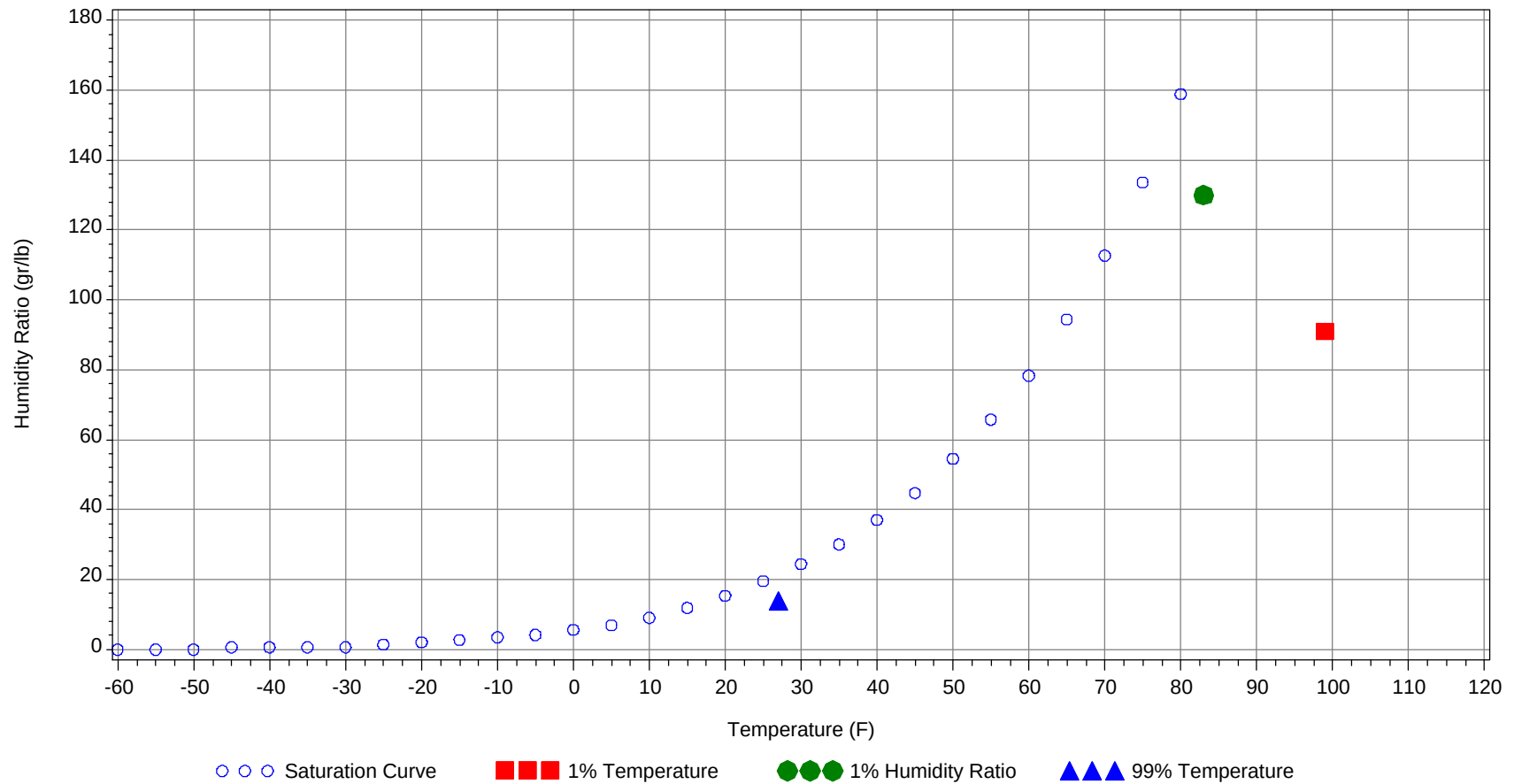
Average Annual Climate



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		91.0	38.2
99.0% Dry Bulb	27.0				14.0	8.6
1.0% Humidity Ratio	130.0	83.0	76.4	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	64
90/ 94											1	0	1	1	65.2
85/ 89							0	0	0	65	2	1	3	3	64.3
80/ 84		1	0	1	59.1		3	1	4	62	0	12	5	17	65.3
75/ 79		5	2	7	60		8	4	12	61	0	25	16	41	63
70/ 74	1	14	7	22	59	2	22	13	37	59.5	8	41	37	86	61.4
65/ 69	4	15	11	30	57.6	6	19	16	41	57.3	23	31	32	86	58.7
60/ 64	10	29	24	63	53.7	16	31	30	77	54.1	35	42	41	118	55.1
55/ 59	15	31	27	73	49.4	21	30	30	81	49.5	36	33	40	109	50.5
50/ 54	20	34	37	91	45.5	26	33	37	96	45.6	47	27	33	107	46.6
45/ 49	41	37	48	126	41.7	44	31	37	112	41.9	45	18	23	86	42.3
40/ 44	36	27	31	94	38	33	17	22	72	38.3	23	7	9	39	38.3
35/ 39	53	30	34	117	33.8	38	16	19	73	34.3	19	5	6	30	34.2
30/ 34	39	16	18	73	29.2	25	8	8	41	29.7	8	2	2	12	29.3
25/ 29	19	6	8	33	24.2	8	4	3	15	24.5	3	1	1	5	24.2
20/ 24	5	2	2	9	19.6	3	1	2	6	19.8	1	1	1	3	20.1
15/ 19	4	0	0	4	16.3	3	2	1	6	15.9	1	0		1	15.5
10/ 14	0			0	12.5	0	0	0	0	12					
5/ 9															
0/ 4															
-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.

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	0	76
100/104		0	0	0	65.5		0	0	0	74.3		2	1	3	75.1
95/ 99		0	0	0	67.1		3	1	4	73.7		23	10	33	75.1
90/ 94		2	1	3	69.1		20	8	28	73.2	0	72	40	112	74.6
85/ 89		6	2	8	69		32	18	50	71.8	2	57	46	105	73.9
80/ 84	0	35	17	52	67.6	4	66	53	123	70.4	52	53	71	176	72.8
75/ 79	3	52	39	94	65.1	40	56	57	153	68.5	97	22	44	163	71.3
70/ 74	36	57	61	154	63.2	75	41	54	170	65.8	67	10	23	100	68.4
65/ 69	36	29	35	100	60	51	15	31	97	62.5	18	1	4	23	64.5
60/ 64	53	30	42	125	56.1	48	11	19	78	58	5	0	0	5	59.2
55/ 59	47	16	23	86	51.4	20	3	5	28	53	0			0	54.6
50/ 54	37	8	14	59	47.3	8	1	2	11	48.9					
45/ 49	19	4	5	28	42.6	2	0	1	3	44.5					
40/ 44	5	1	1	7	38.3	0		0	0	39					
35/ 39	3	0	0	3	34.3	0			0	36					
30/ 34	0			0	31.2										
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

	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	75.4		3	1	4	74.4		1	0	1	73.1
100/104		15	8	23	74.6		24	10	34	74.3		3	1	4	73.1
95/ 99		58	30	88	75.2		59	31	90	74.7		16	6	22	73.5
90/ 94	1	84	63	148	74.8	3	71	57	131	74.2	0	51	24	75	72.5
85/ 89	13	46	55	114	74.3	19	42	52	113	73.7	2	46	33	81	71.6
80/ 84	101	31	57	189	73.4	97	31	57	185	72.9	28	56	61	145	70.3
75/ 79	100	10	27	137	72.2	87	13	28	128	71.8	67	34	54	155	69.2
70/ 74	29	3	7	39	69.5	34	5	10	49	68.7	74	20	36	130	66
65/ 69	4	0	0	4	64.7	5	0	1	6	63.7	30	7	13	50	61
60/ 64	0			0	60.5	2	0	0	2	61.2	23	4	8	35	57.1
55/ 59											10	1	3	14	53.3
50/ 54											4	0	1	5	49.1
45/ 49											1		0	1	44.8
40/ 44															
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

	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	0	1	67.4										
90/ 94		11	2	13	70.9		0	0	0	67.8					
85/ 89		21	7	28	69.4		2	0	2	66.9		0		0	57
80/ 84	1	45	24	70	67.3		9	2	11	66.5		2	0	2	64.5
75/ 79	15	47	39	101	65.9	1	21	10	32	64.7	0	5	1	6	62.6
70/ 74	39	47	54	140	63.4	12	36	25	73	62.5	2	16	8	26	60.8
65/ 69	35	27	38	100	60	14	27	27	68	59.4	6	17	12	35	58.7
60/ 64	59	28	43	130	56.5	34	44	43	121	55.5	13	29	25	67	54.6
55/ 59	45	13	23	81	51.5	31	35	37	103	50.4	15	31	26	72	49.7
50/ 54	31	6	12	49	47.4	40	29	41	110	46.5	27	39	39	105	45.9
45/ 49	16	2	4	22	43	45	20	29	94	42	41	43	54	138	41.7
40/ 44	5	1	1	7	38.7	24	8	13	45	37.8	39	25	30	94	38.1
35/ 39	1	0	1	2	34	25	6	9	40	33.9	50	22	29	101	33.7
30/ 34	1		0	1	29.3	10	2	2	14	29.7	32	11	14	57	29.3
25/ 29	0			0	26	3	0	1	4	25.5	15	5	8	28	24.4
20/ 24						0			0	22	4	2	2	8	19.4
15/ 19											3	1	1	5	15.4
10/ 14											1	0	0	1	11
5/ 9											0	0	0	0	5.2
0/ 4											0		0	0	0.8
-5/ -1											0			0	-1

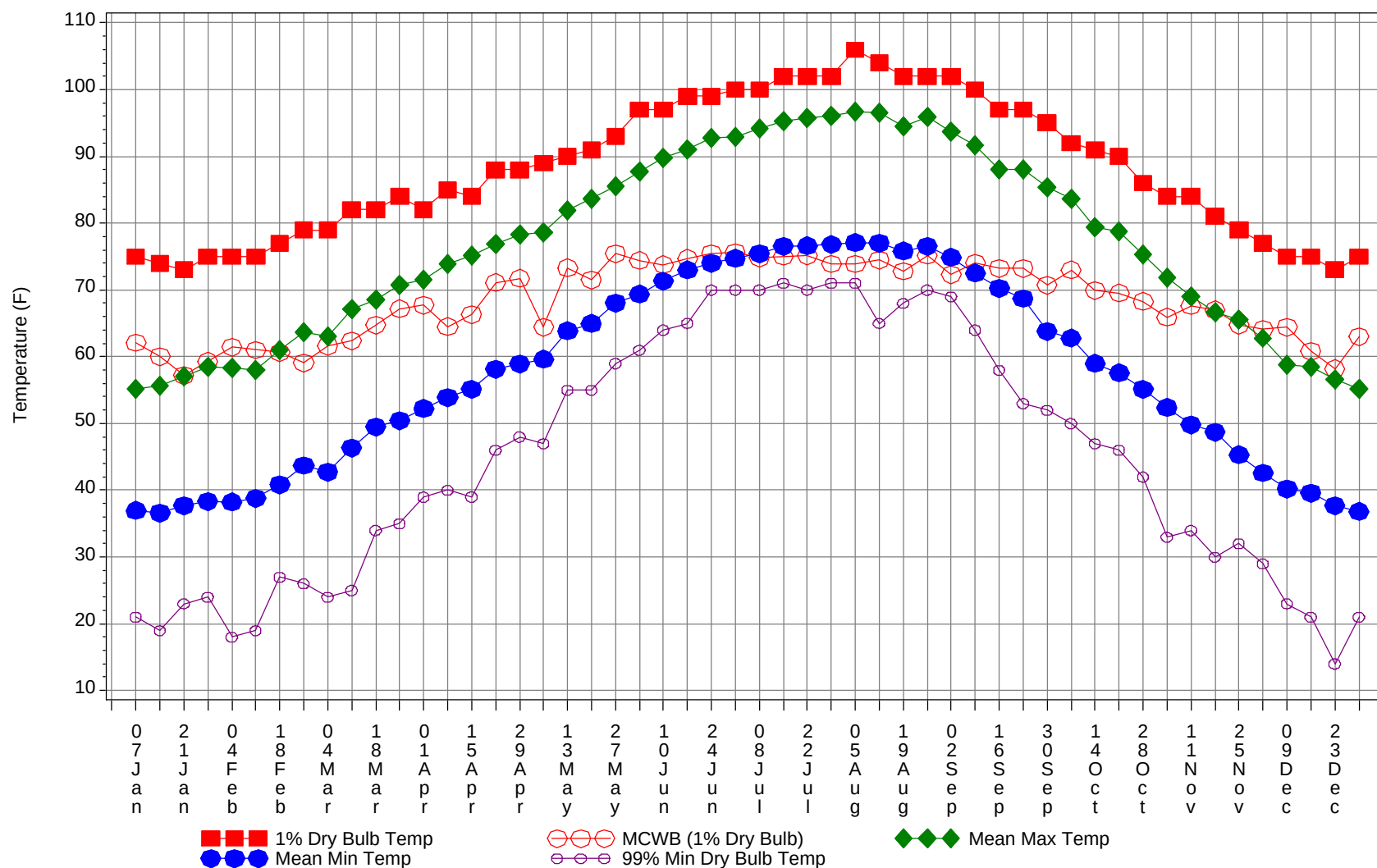
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Dry-Bulb Temperature Hours For An Average Year

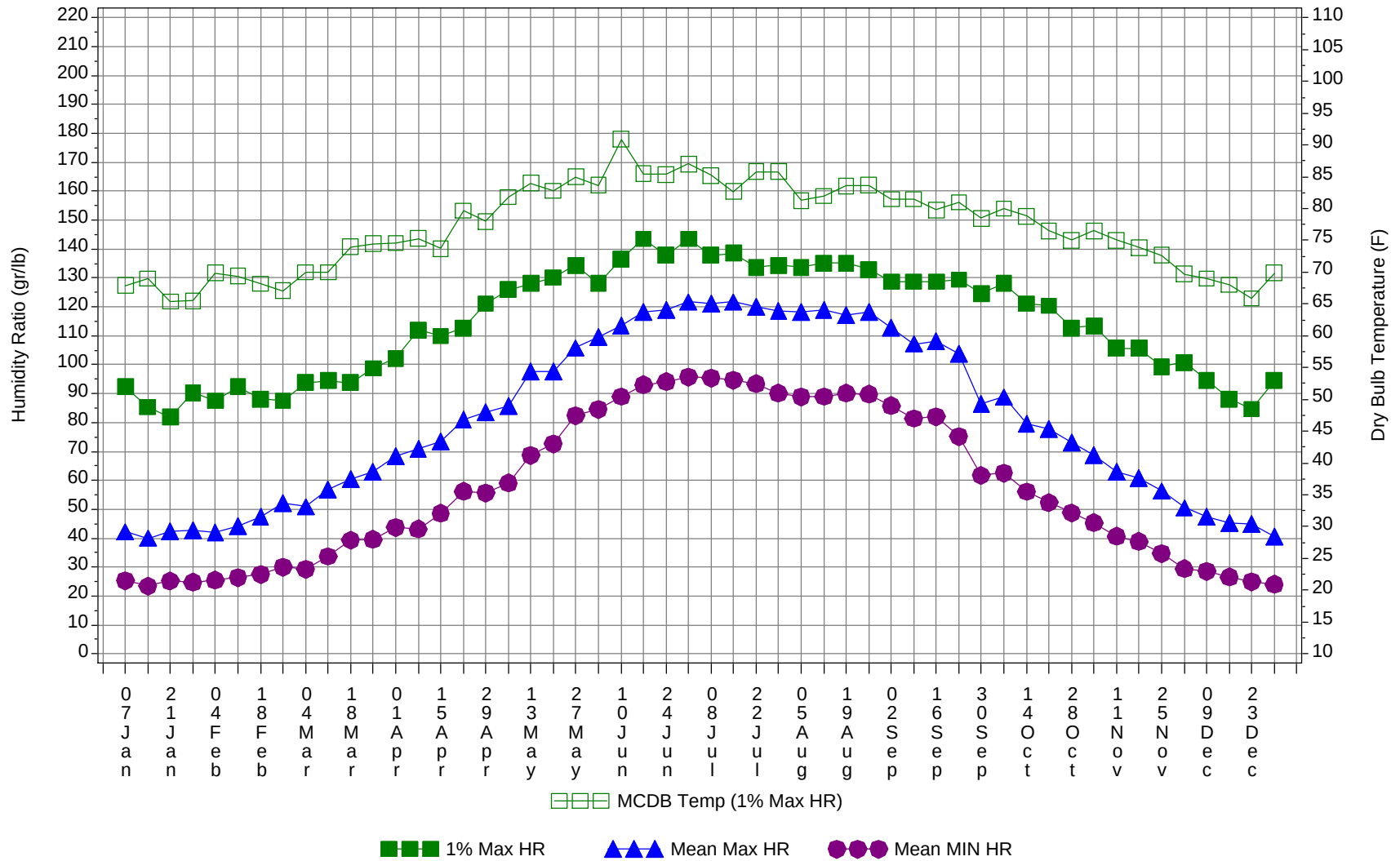
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109		5	2	7	74.3
100/104		45	20	65	74.4
95/ 99		162	79	241	74.8
90/ 94	5	316	199	520	74.1
85/ 89	36	256	215	507	72.9
80/ 84	288	343	351	982	71.4
75/ 79	415	298	320	1033	68.9
70/ 74	380	309	334	1023	64.5
65/ 69	231	189	219	639	60.1
60/ 64	297	246	275	818	55.7
55/ 59	239	192	213	644	50.5
50/ 54	237	176	214	627	46.3
45/ 49	252	155	200	607	42
40/ 44	165	86	107	358	38.1
35/ 39	188	79	98	365	33.9
30/ 34	115	39	44	198	29.4
25/ 29	48	16	21	85	24.4
20/ 24	13	6	6	25	19.7
15/ 19	10	3	3	16	15.8
10/ 14	1	1	0	2	11.3
5/ 9	0	0	0	0	5.2
0/ 4	0		0	0	0.8
-5/ -1	0			0	-1

Caution: This summary reflects the typical distribtion of temperature in a typical year. It does not reflect the typical mositure 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



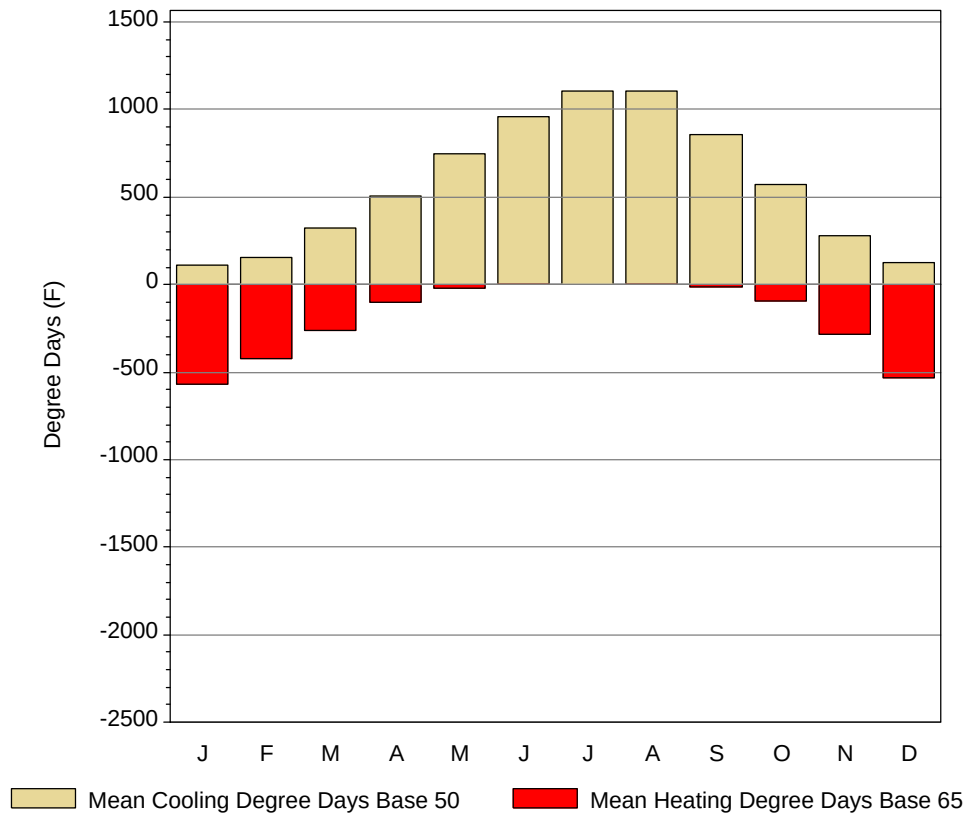
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

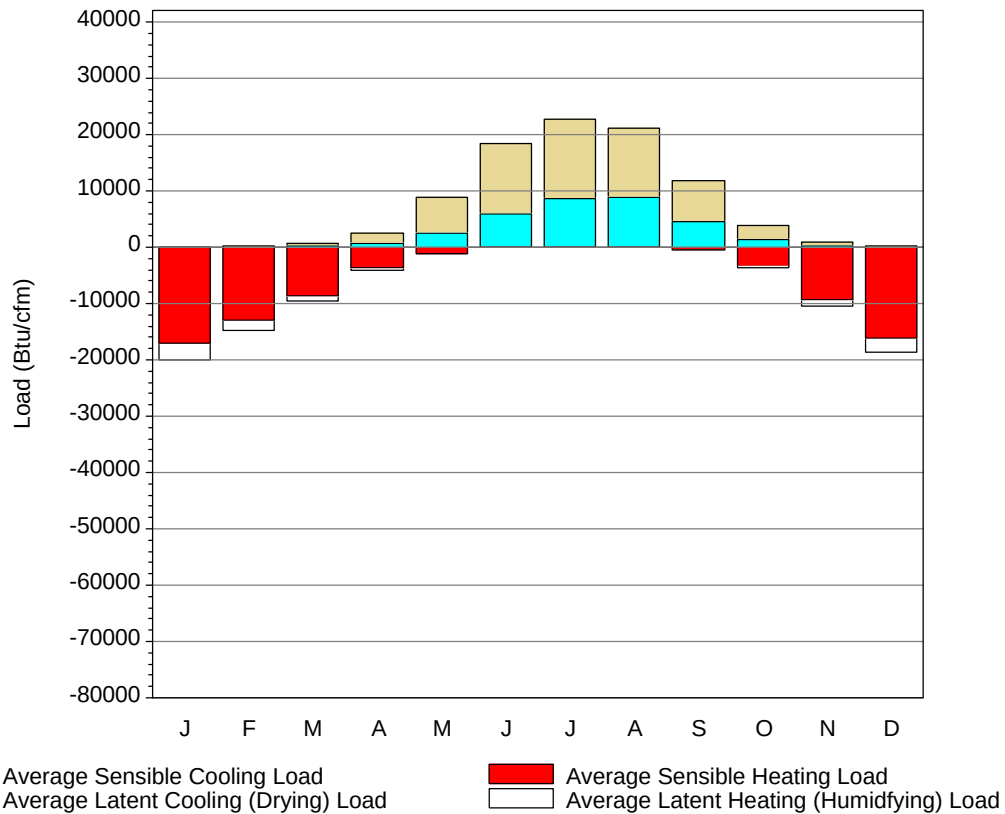
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	75	62.1	55.1	37	21	92.4	67.9	42.2	25.3
14-Jan	74	60	55.7	36.6	19	85.4	69	40	23.4
21-Jan	73	57.2	57	37.7	23	81.9	65.4	42.4	25.2
28-Jan	75	59.3	58.4	38.3	24	90.3	65.5	42.6	24.7
4-Feb	75	61.4	58.3	38.2	18	87.5	69.9	42.1	25.5
11-Feb	75	61	58	38.8	19	92.4	69.4	44.3	26.3
18-Feb	77	60.6	61	40.8	27	88.2	68.2	47.4	27.5
25-Feb	79	59.1	63.6	43.7	26	87.5	67.1	52.1	30
4-Mar	79	61.6	63	42.7	24	93.8	70	50.9	29.3
11-Mar	82	62.4	67.1	46.3	25	94.5	70	56.9	33.7
18-Mar	82	64.7	68.6	49.5	34	93.8	74	60.5	39.3
25-Mar	84	67.2	70.7	50.4	35	98.7	74.5	63	39.6
1-Apr	82	67.7	71.5	52.2	39	102.2	74.6	68.3	43.8
8-Apr	85	64.5	73.9	53.9	40	112	75.3	70.9	43.2
15-Apr	84	66.3	75.1	55.1	39	109.9	73.7	73.5	48.6
22-Apr	88	71.1	76.9	58.1	46	112.7	79.7	80.9	56.2
29-Apr	88	71.7	78.3	58.9	48	121.1	78	83.5	55.6
6-May	89	64.4	78.6	59.6	47	126	81.8	85.8	59.1
13-May	90	73.3	81.9	63.9	55	128.1	84	97.6	68.6
20-May	91	71.5	83.7	65	55	130.2	82.8	97.6	72.6
27-May	93	75.4	85.5	68	59	134.4	85	105.8	82.4
4-Jun	97	74.4	87.8	69.4	61	128.1	83.7	109.6	84.5
10-Jun	97	73.8	89.7	71.3	64	136.5	90.9	113.7	89
17-Jun	99	74.7	91.1	73	65	143.5	85.5	118.3	93.1
24-Jun	99	75.4	92.7	74	70	137.9	85.4	119	94.2
1-Jul	100	75.6	92.9	74.7	70	143.5	87	121.7	95.7
8-Jul	100	74.8	94.2	75.4	70	137.9	85.2	121.2	95.4
15-Jul	102	75	95.3	76.5	71	138.6	82.7	121.7	94.7
22-Jul	102	75.1	95.8	76.6	70	133.7	85.8	120.2	93.4
29-Jul	102	73.9	96.1	76.8	71	134.4	85.8	118.6	90.2
5-Aug	106	73.9	96.7	77.1	71	133.7	81.3	118.2	88.9
12-Aug	104	74.5	96.5	77	65	135.1	82	118.9	89
19-Aug	102	72.8	94.5	75.8	68	135.1	83.6	117.1	90.2
26-Aug	102	75.2	95.9	76.5	70	133	83.7	118.3	89.8
2-Sep	102	72.3	93.7	74.9	69	128.8	81.5	112.7	85.9
9-Sep	100	74	91.6	72.5	64	128.8	81.5	107.2	81.4
16-Sep	97	73.2	88.1	70.2	58	128.8	79.8	108	82.1
23-Sep	97	73.2	88.1	68.7	53	129.5	81	103.7	75.2
30-Sep	95	70.7	85.3	63.8	52	124.6	78.5	86.4	61.7
7-Oct	92	73	83.6	62.8	50	128.1	80	88.8	62.5
14-Oct	91	69.9	79.4	59	47	121.1	78.8	79.7	56.1
21-Oct	90	69.5	78.7	57.6	46	120.4	76.5	77.9	52.3
28-Oct	86	68.3	75.3	55.1	42	112.7	75	73.2	48.7
4-Nov	84	65.9	71.8	52.4	33	113.4	76.5	68.7	45.4
11-Nov	84	67.6	69	49.8	34	105.7	75	63	40.7
18-Nov	81	67	66.7	48.7	30	105.7	73.9	60.7	38.9
25-Nov	79	64.7	65.5	45.3	32	99.4	72.7	56.3	34.7
2-Dec	77	64.1	62.8	42.6	29	100.8	69.7	50.5	29.4
9-Dec	75	64.4	58.8	40.2	23	94.5	69	47.3	28.5
16-Dec	75	60.8	58.4	39.6	21	88.2	68	45.3	26.5
23-Dec	73	58.2	56.6	37.7	14	84.7	65.9	45	24.9
31-Dec	75	63	55.1	36.8	21	94.5	69.9	40.6	24.1

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	114.2	11.9	567.8
FEB	158.5	21.9	421.3
MAR	322.5	67.7	265.1
APR	505.1	149	101.3
MAY	748.5	306.5	23.4
JUN	961.3	511.8	0.5
JUL	1104	639	0
AUG	1105.6	640.8	0.2
SEP	859.5	420.8	11.4
OCT	572.2	191.1	90.2
NOV	277.7	52.6	286.5
DEC	129	14.5	535.6
ANN	6858.1	3027.6	2303.3

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	18	-16975	104	-2912
FEB	49	-12860	140	-1891
MAR	239	-8607	507	-1022
APR	743	-3719	1872	-245
MAY	2519	-1089	6386	-20
JUN	6028	-53	12395	0
JUL	8667	-4	14080	0
AUG	8792	-18	12293	0
SEP	4542	-528	7408	-2
OCT	1347	-3384	2610	-191
NOV	164	-9218	672	-1125
DEC	25	-16108	178	-2594
ANN	33133	-72563	58645	-10002

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

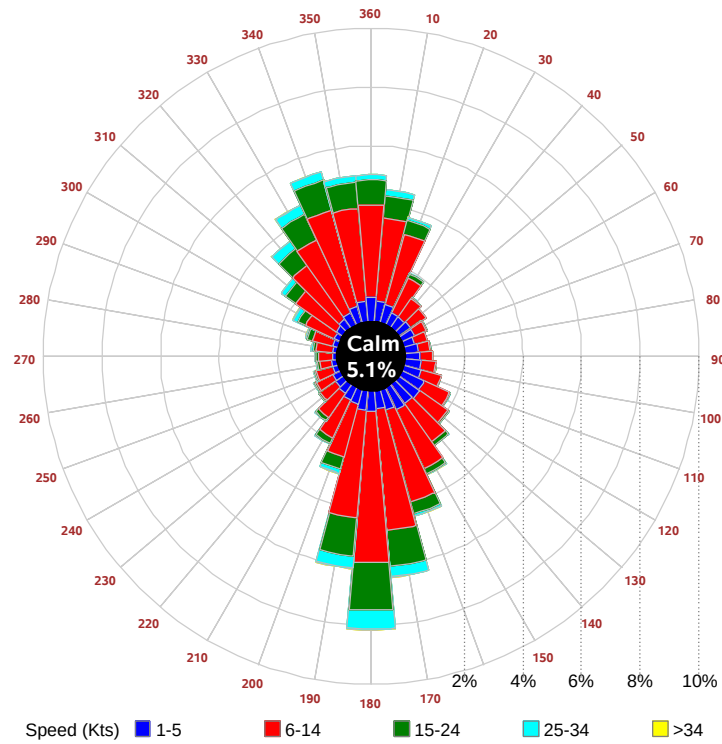
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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

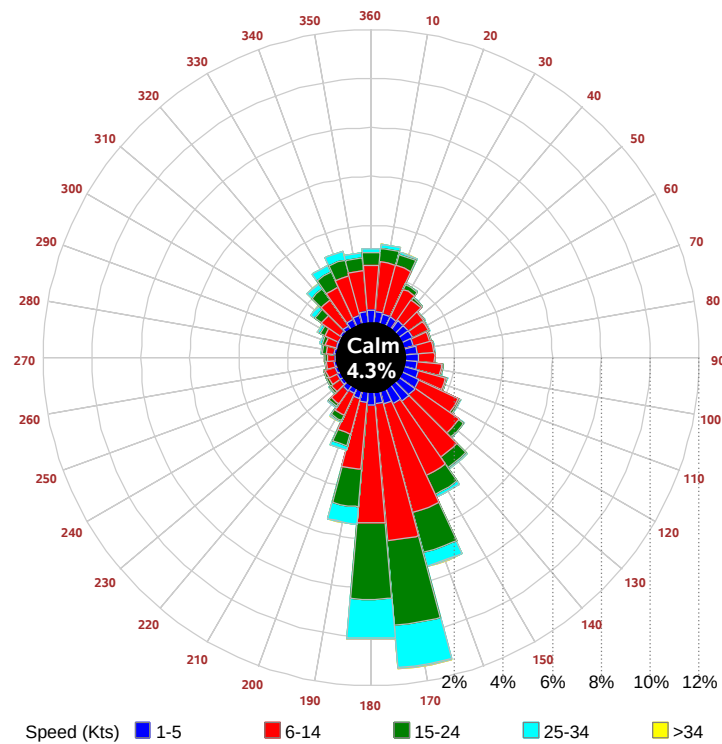
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	35	76	92	79	41	36	80	105	103	77	
	M.Cloudy	20	48	59	52	26	25	59	80	83	60	
NORTH	M.Clear	9	14	16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

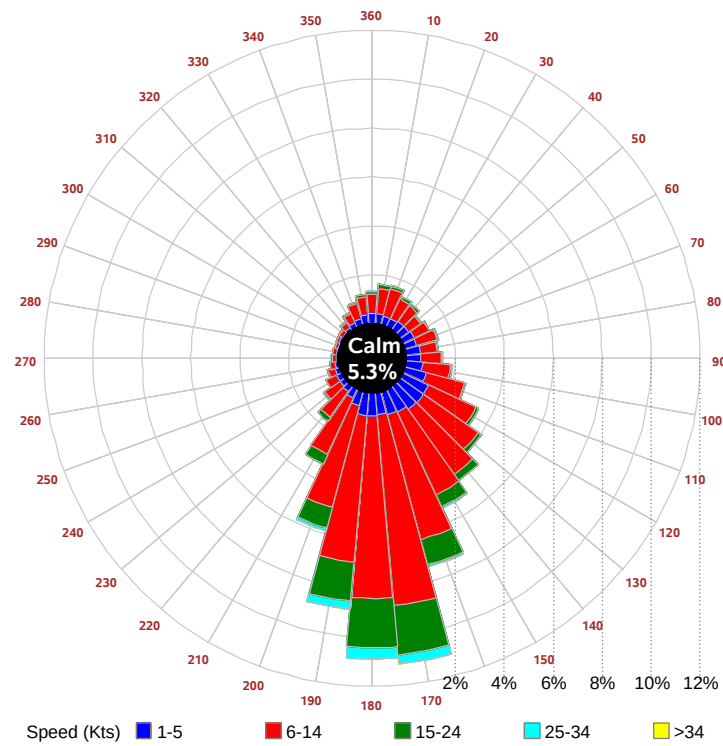
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

