

NORFOLK INTL, VA	Station ID = ICAO_KORF
Latitude = 36.89 N	Elevation = 26 Feet
Longitude = 76.20 W	Average Pressure = 30.02 inches Hg
Period of Record = 1988 To 2017	

Design Criteria Data

	Mean Coincident (Average) Values				
Dry Bulb Temperature (T)	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	99	78	112	9.9	WSW
0.4% Occurrence	93	77	113	10.9	WSW
1.0% Occurrence	91	76	111	10.4	SW
2.0% Occurrence	90	76	110	10.5	SW
Mean Daily Range	15	-	-	-	N
97.5% Occurrence	30	27	14	8.8	N
99.0% Occurrence	26	23	11	9	N
99.6% Occurrence	22	19	9	9.8	N
Median of Extreme Lows	18	16	7	9.9	NNW

	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T _{wb})					
Median of Extreme Highs	81	90	141	9.3	SW
0.4% Occurrence	79	88	131	9.6	SW
1.0% Occurrence	78	87	127	9.7	SW
2.0% Occurrence	77	85	124	9.5	SW

	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)					
Median of Extreme Highs	150	85	0.99	8.6	SW
0.4% Occurrence	140	84	0.94	7.8	SW
1.0% Occurrence	132	82	0.88	8.3	SW
2.0% Occurrence	130	82	0.87	8.8	SW

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	58	1088	1206	2587

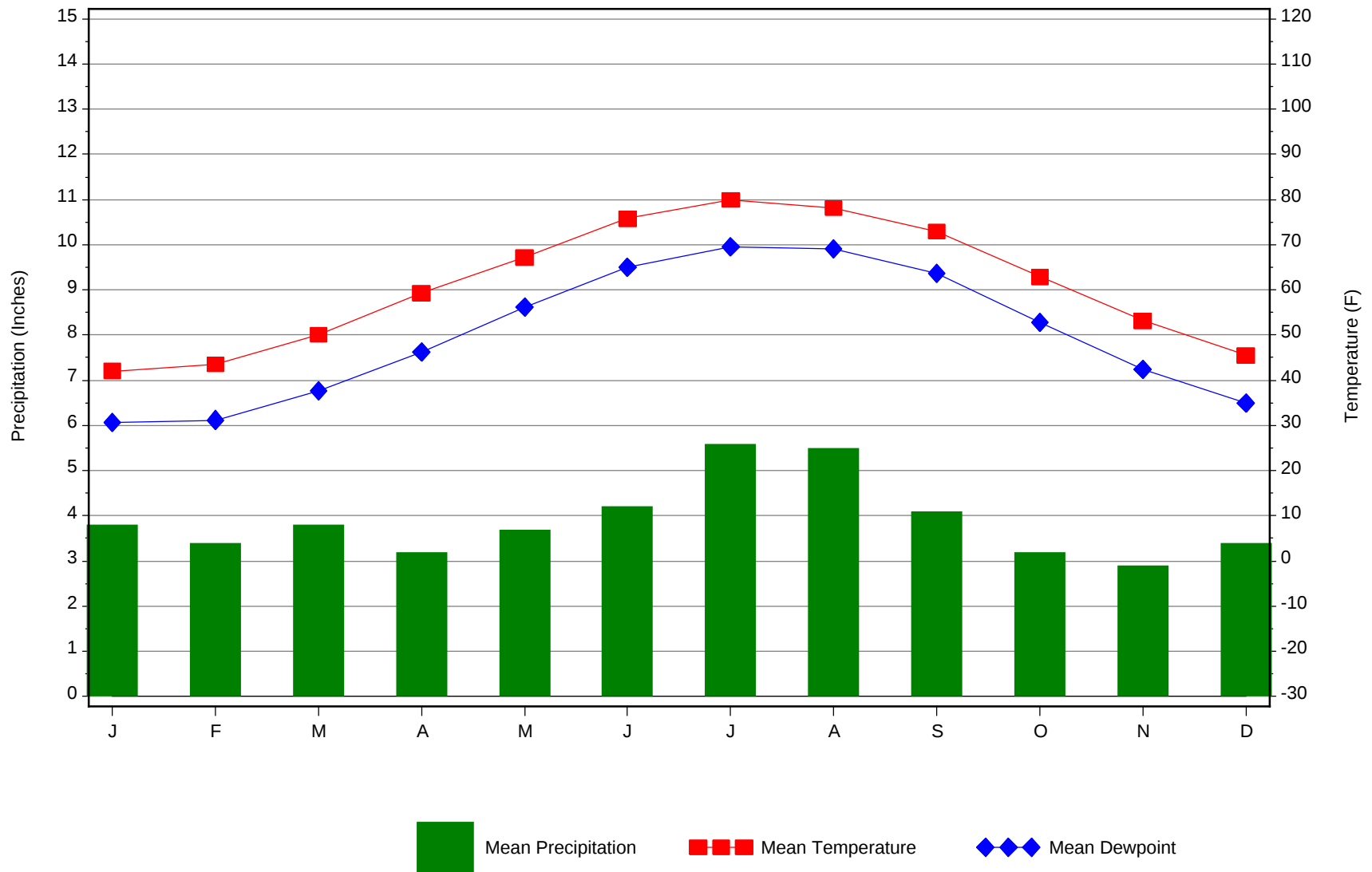
Other Site Data

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
8	3.4	110	4.6 + 1.1
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 (#)
63.4	9	10	26

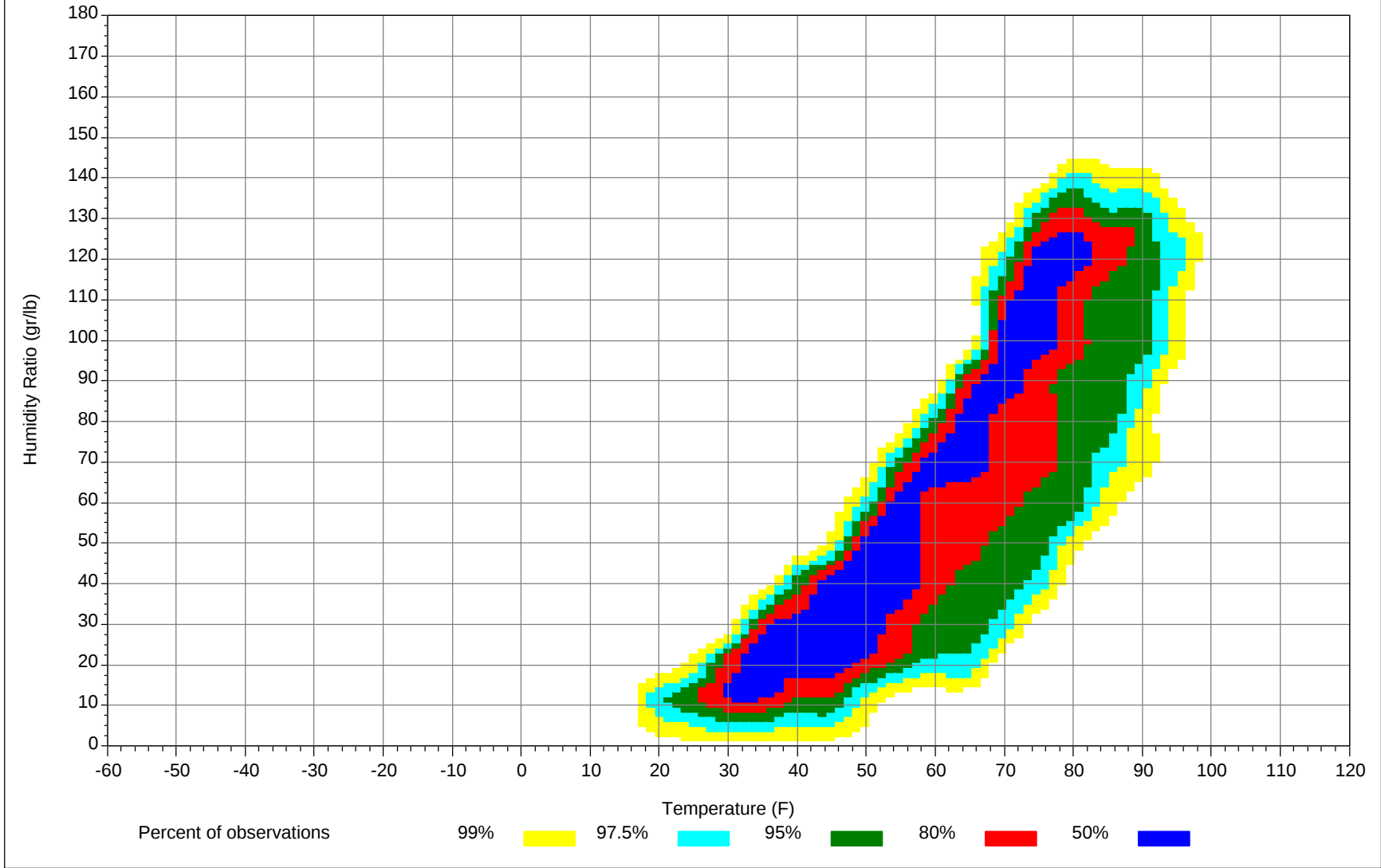
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



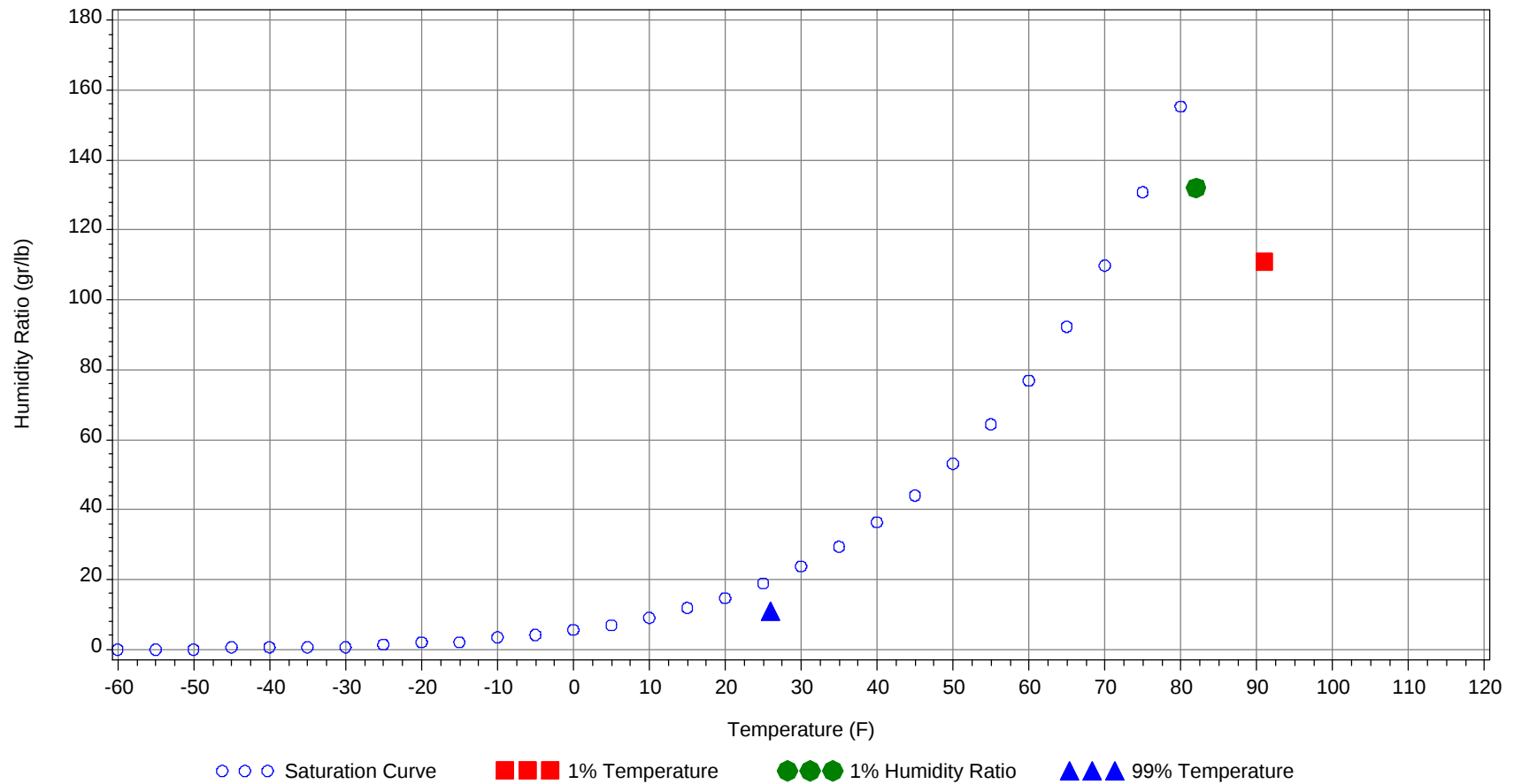
Average Annual Climate



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	91.0		76		111.0	39.2
99.0% Dry Bulb	26.0				11.0	7.9
1.0% Humidity Ratio	132.0	82.0	77.1	75.2		40.5

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)
100/104															
95/ 99															
90/ 94															
85/ 89												1	0	1	66.3
80/ 84		0		0	64.5		0	0	0	67.2		5	1	6	65.1
75/ 79		1	0	1	64.1		2	0	2	64.2	0	10	3	13	62.4
70/ 74	1	6	2	9	63	0	8	2	10	60.2	2	19	10	31	60.3
65/ 69	2	10	3	15	60	2	10	5	17	57.4	7	15	13	35	58.3
60/ 64	8	15	14	37	56.7	7	17	13	37	54.9	20	28	24	72	55.5
55/ 59	13	19	15	47	51.8	12	17	16	45	50.4	21	30	24	75	50.6
50/ 54	14	28	20	62	46.4	15	24	20	59	45.9	32	38	38	108	46.7
45/ 49	33	45	41	119	42.2	30	45	39	114	41.5	53	51	58	162	42.1
40/ 44	36	37	42	115	38.3	35	35	37	107	37.9	43	28	35	106	37.8
35/ 39	53	42	50	145	33.5	56	38	51	145	33.5	44	19	31	94	33.6
30/ 34	41	26	35	102	28.4	37	18	27	82	28.6	20	5	7	32	28.7
25/ 29	30	14	18	62	23.4	21	7	9	37	23.6	4	1	2	7	23.6
20/ 24	10	5	6	21	18.8	6	2	2	10	18.8	1	0	0	1	18.8
15/ 19	5	1	2	8	15.1	2	1	1	4	14.7	0	0		0	16.2
10/ 14	1	0	0	1	9.8	1	0	0	1	10					
5/ 9	0	0		0	5.9	0			0	7					

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)
100/104													0	0	77
95/ 99							0	0	0	76.8		5	1	6	76.5
90/ 94		1	0	1	69.6		5	1	6	72.9		27	9	36	75.2
85/ 89		6	1	7	67.5		16	5	21	71.3	0	37	16	53	73.6
80/ 84		17	7	24	66.4	1	36	16	53	69.2	12	67	43	122	72.1
75/ 79	1	23	11	35	63.9	9	43	28	80	66.9	62	53	63	178	70.2
70/ 74	10	34	26	70	61.9	42	50	47	139	64.7	92	35	64	191	67.3
65/ 69	23	24	24	71	59.4	43	37	39	119	60.9	40	10	27	77	63
60/ 64	40	43	37	120	55.6	69	37	56	162	57.6	25	5	14	44	59.3
55/ 59	41	40	42	123	51	51	20	38	109	53.3	7	1	3	11	54.7
50/ 54	52	33	48	133	47.1	28	4	17	49	49.6	1		0	1	51.4
45/ 49	49	17	34	100	43	5	0	1	6	45.4					
40/ 44	17	2	8	27	38.7	0		0	0	41.1					
35/ 39	7	0	1	8	34.9	0			0	37					
30/ 34	1	0	0	1	31.3										
25/ 29															
20/ 24															
15/ 19															
10/ 14															
5/ 9															

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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)
100/104		1	0	1	77.4		0		0	76.7					
95/ 99		10	2	12	77.9		3	1	4	77.8		1	0	1	75.8
90/ 94		48	16	64	76.9	0	30	7	37	76.7		7	1	8	74.8
85/ 89	3	55	26	84	75.6	1	46	16	63	75.3		18	3	21	73.9
80/ 84	40	82	69	191	73.8	21	93	55	169	73.7	2	54	17	73	72.3
75/ 79	114	40	84	238	72.3	103	60	97	260	72.1	38	77	54	169	70.5
70/ 74	77	11	47	135	69	100	15	65	180	68.8	102	63	98	263	67.2
65/ 69	11	1	4	16	64.1	17	1	7	25	64.5	49	14	38	101	62.5
60/ 64	4		0	4	60.4	5		1	6	61.3	35	6	22	63	58.4
55/ 59	0			0	56.5	0			0	57.6	11	1	5	17	54.3
50/ 54											2		0	2	50.6
45/ 49											0			0	47.3
40/ 44															
35/ 39															
30/ 34															
25/ 29															
20/ 24															
15/ 19															
10/ 14															
5/ 9															

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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)
100/104															
95/ 99															
90/ 94		0		0	72.3										
85/ 89		3	0	3	72.3										
80/ 84	0	18	3	21	70		1	0	1	69.4		0		0	70.7
75/ 79	5	31	12	48	68	0	9	1	10	65.5		3	0	3	66.6
70/ 74	21	55	37	113	65	4	21	8	33	63.6	2	8	4	14	64.2
65/ 69	37	43	41	121	61.5	10	23	16	49	61	5	10	8	23	61.7
60/ 64	57	55	63	175	57.1	24	38	30	92	56.9	13	20	13	46	57.5
55/ 59	53	28	48	129	52	35	48	41	124	52	14	25	18	57	52.1
50/ 54	40	11	30	81	47.7	45	50	53	148	46.9	23	44	32	99	47
45/ 49	26	3	12	41	43.8	55	32	49	136	42	43	55	52	150	42.1
40/ 44	8		2	10	39.9	27	11	22	60	37.7	38	33	41	112	38
35/ 39	2		0	2	37.2	28	5	15	48	33.9	53	32	44	129	33.3
30/ 34	0			0	34	10	1	4	15	29.4	34	13	25	72	28.7
25/ 29						2		0	2	25.8	17	4	8	29	24.2
20/ 24											4	1	1	6	19.7
15/ 19											1	1	0	2	15.6
10/ 14											0	0		0	11.5
5/ 9															

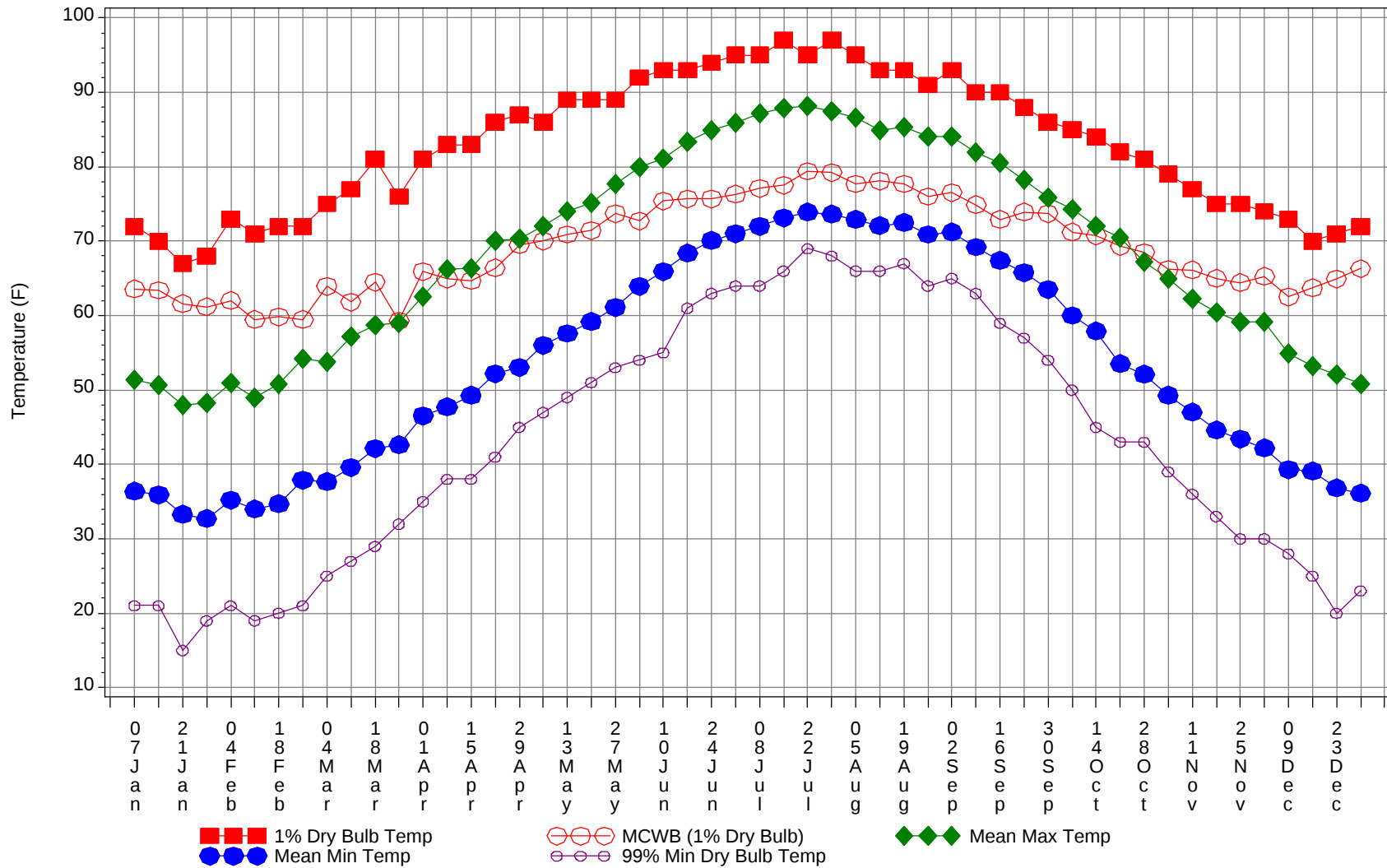
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Dry-Bulb Temperature Hours For An Average Year

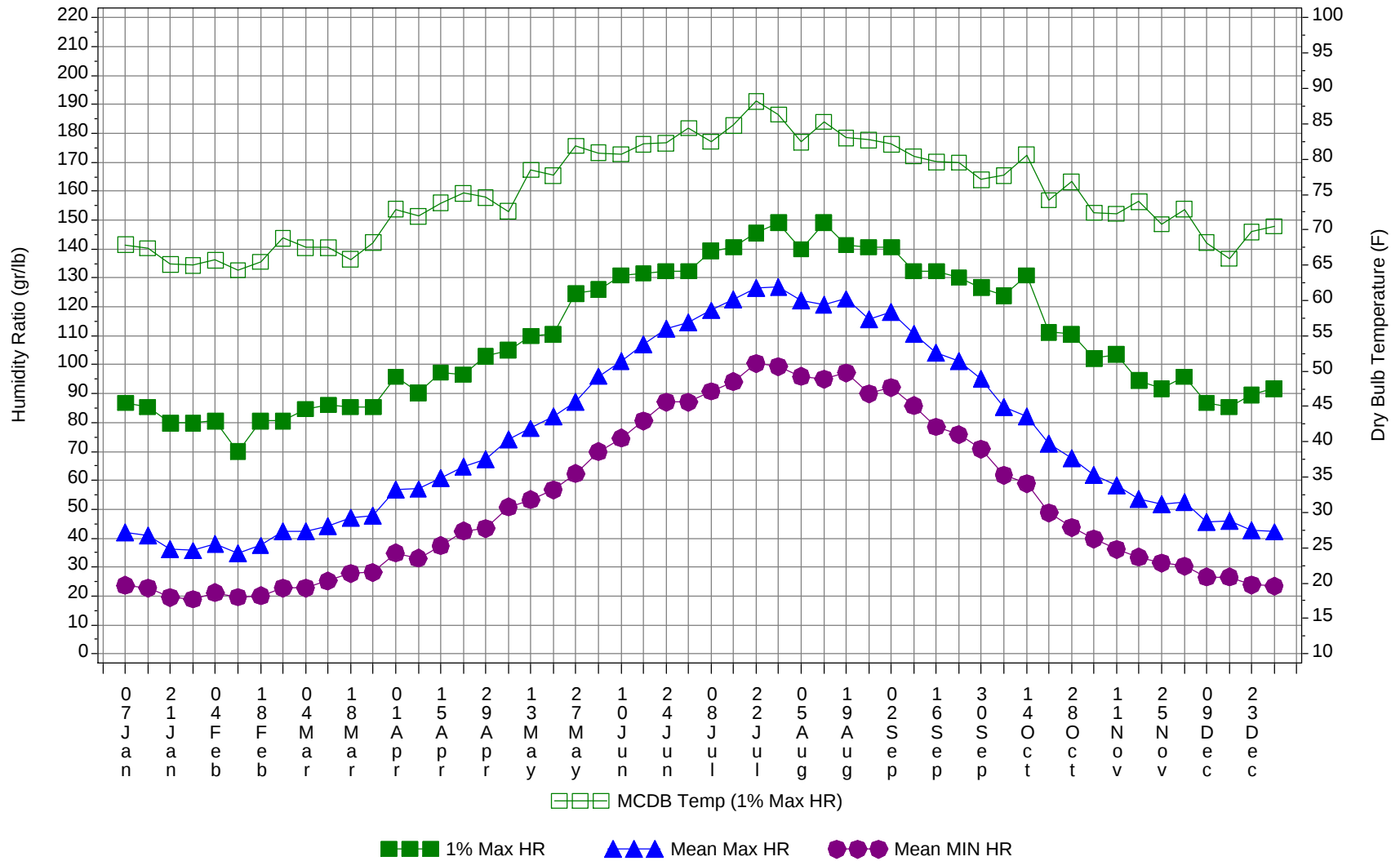
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104		1	0	1	77.4
95/ 99		19	4	23	77.4
90/ 94	0	118	33	151	76.1
85/ 89	4	181	67	252	74.3
80/ 84	77	373	210	660	72.5
75/ 79	332	351	355	1038	70.5
70/ 74	452	325	411	1188	66.5
65/ 69	244	197	226	667	61.3
60/ 64	308	263	288	859	57
55/ 59	258	229	249	736	51.9
50/ 54	254	232	259	745	47.1
45/ 49	294	247	286	827	42.2
40/ 44	205	146	188	539	38.1
35/ 39	243	137	193	573	33.6
30/ 34	143	64	99	306	28.6
25/ 29	74	26	38	138	23.7
20/ 24	21	8	9	38	19
15/ 19	9	3	3	15	15.1
10/ 14	2	0	1	3	10.1
5/ 9	0	0		0	5.9

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.

Annual Summary of Temperatures



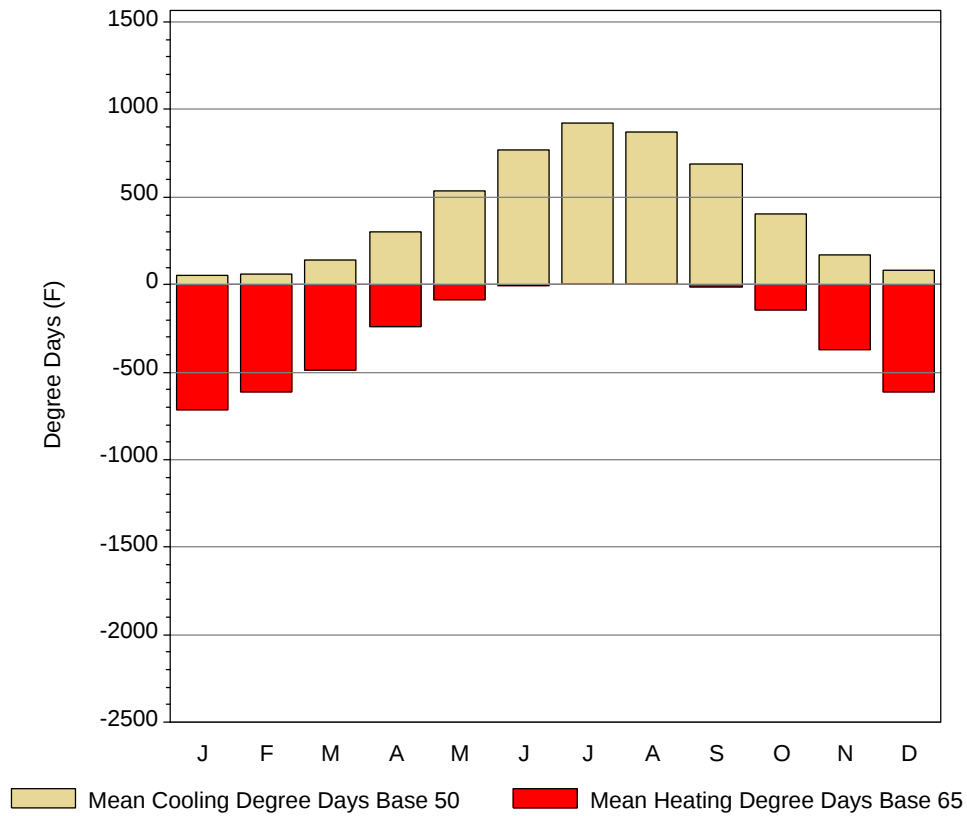
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

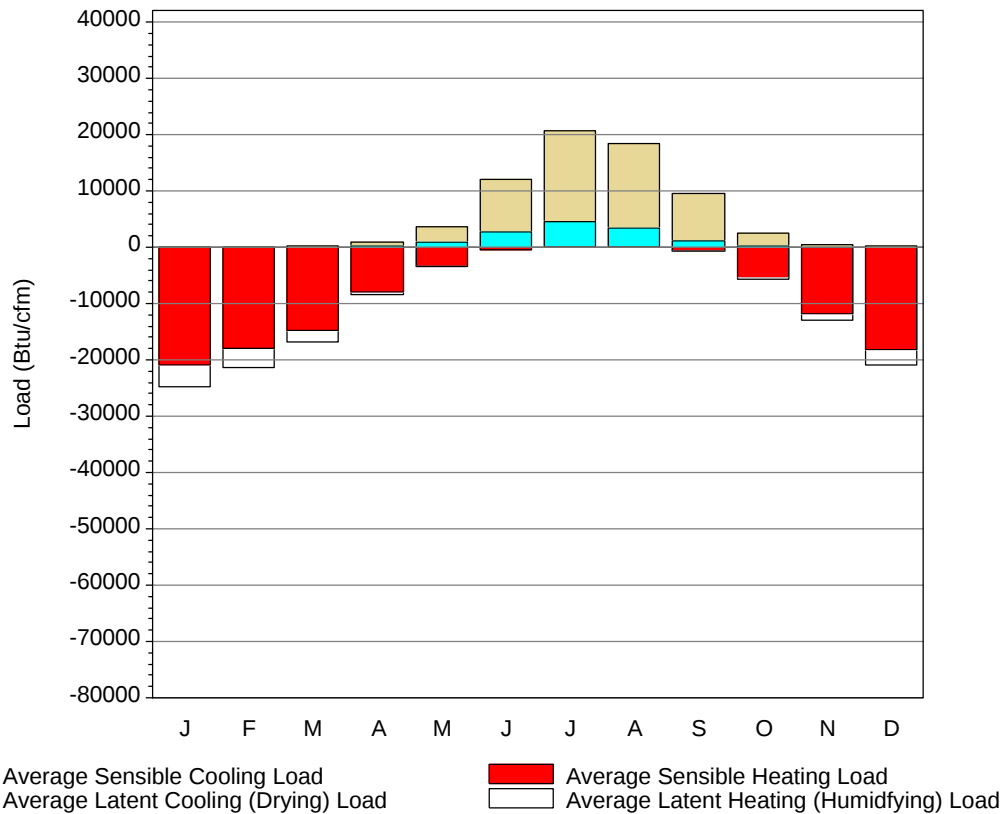
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	72	63.6	51.3	36.4	21	86.8	67.9	42	23.7
14-Jan	70	63.4	50.7	35.9	21	85.4	67.4	41	22.8
21-Jan	67	61.6	47.9	33.3	15	79.8	65.1	36.1	19.5
28-Jan	68	61.2	48.3	32.7	19	79.8	65	35.7	18.9
4-Feb	73	62	50.9	35.2	21	80.5	65.7	38.1	21.2
11-Feb	71	59.5	48.9	34	19	70	64.3	34.9	19.6
18-Feb	72	59.8	50.8	34.7	20	80.5	65.5	37.5	20
25-Feb	72	59.5	54.2	37.9	21	80.5	68.8	42.4	22.8
4-Mar	75	63.9	53.8	37.7	25	84.7	67.5	42.3	22.8
11-Mar	77	61.8	57.2	39.6	27	86.1	67.5	44.2	25.2
18-Mar	81	64.5	58.7	42.1	29	85.4	65.8	47	27.9
25-Mar	76	59.3	59	42.6	32	85.4	68.2	47.8	28.1
1-Apr	81	65.9	62.6	46.5	35	95.9	72.9	56.7	34.9
8-Apr	83	64.9	66.2	47.7	38	90.3	71.9	57	33.1
15-Apr	83	64.7	66.4	49.3	38	97.3	73.8	60.7	37.4
22-Apr	86	66.4	70	52.2	41	96.6	75.2	64.8	42.4
29-Apr	87	69.5	70.3	53	45	102.9	74.6	67.4	43.4
6-May	86	70	72	56	47	105	72.6	74.3	50.8
13-May	89	70.9	74	57.6	49	109.9	78.5	78	53.3
20-May	89	71.4	75.2	59.2	51	110.6	77.7	82.1	56.7
27-May	89	73.7	77.7	61.1	53	124.6	81.9	87.2	62.4
4-Jun	92	72.7	80	63.9	54	126	80.9	96	70
10-Jun	93	75.4	81.1	65.9	55	130.9	80.7	101.2	74.7
17-Jun	93	75.7	83.3	68.4	61	131.6	82.1	107	80.6
24-Jun	94	75.7	84.9	70.1	63	132.3	82.3	112.4	87.1
1-Jul	95	76.3	85.9	71	64	132.3	84.4	114.7	87
8-Jul	95	77.1	87.2	72	64	139.3	82.5	118.8	90.8
15-Jul	97	77.5	87.9	73.1	66	140.7	84.8	122.6	94.1
22-Jul	95	79.4	88.1	73.9	69	145.6	88.2	126.7	100.5
29-Jul	97	79.2	87.4	73.6	68	149.1	86.3	126.8	99.3
5-Aug	95	77.7	86.6	72.9	66	140	82.4	122.3	96
12-Aug	93	78.1	84.9	72.1	66	149.1	85.3	120.7	95
19-Aug	93	77.7	85.4	72.5	67	141.4	83	122.8	97.2
26-Aug	91	76	84.1	70.9	64	140.7	82.7	115.8	89.9
2-Sep	93	76.5	84.1	71.2	65	140.7	82.1	118.3	92.1
9-Sep	90	74.9	81.9	69.2	63	132.3	80.4	110.8	85.9
16-Sep	90	72.9	80.5	67.4	59	132.3	79.6	104.1	78.5
23-Sep	88	73.9	78.2	65.8	57	130.2	79.5	101.4	75.8
30-Sep	86	73.7	75.9	63.5	54	126.7	77.1	95.1	70.8
7-Oct	85	71.2	74.3	60	50	123.9	77.7	85.3	61.8
14-Oct	84	70.7	72	57.9	45	130.9	80.6	82.1	58.9
21-Oct	82	69.3	70.5	53.5	43	111.3	74.2	72.8	48.8
28-Oct	81	68.5	67.2	52.1	43	110.6	76.8	67.8	43.7
4-Nov	79	66.2	64.9	49.3	39	102.2	72.4	62	39.8
11-Nov	77	66.1	62.3	47	36	103.6	72.3	58.3	36.2
18-Nov	75	65	60.4	44.6	33	94.5	74	53.6	33.5
25-Nov	75	64.4	59.1	43.4	30	91.7	70.8	51.8	31.5
2-Dec	74	65.3	59.2	42.2	30	95.9	72.9	52.4	30.4
9-Dec	73	62.5	54.9	39.3	28	86.8	68.2	45.6	26.5
16-Dec	70	63.7	53.2	39.1	25	85.4	65.9	46	26.6
23-Dec	71	64.9	52.1	36.8	20	89.6	69.7	42.7	23.8
31-Dec	72	66.3	50.8	36.1	23	91.7	70.5	42.2	23.4

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	55.5	3.6	717.9
FEB	61.3	5.7	613.9
MAR	141.5	21.6	485.2
APR	303.4	65.4	238
MAY	532.4	149.9	83.2
JUN	773	331.3	8.3
JUL	926.6	461.9	0.3
AUG	872.3	407.7	0.5
SEP	685.6	247.7	12.2
OCT	406.8	80	147.2
NOV	171.8	18.9	373.1
DEC	78.8	6.9	611.6
ANN	5009	1800.6	3291.4

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	1	-20961	53	-3825
FEB	8	-18035	33	-3250
MAR	70	-14763	113	-2048
APR	346	-7930	494	-509
MAY	929	-3373	2638	-22
JUN	2699	-486	9370	0
JUL	4477	-33	16200	0
AUG	3322	-52	15064	0
SEP	1264	-694	8308	-1
OCT	272	-5405	2193	-153
NOV	27	-11765	404	-1144
DEC	6	-18167	165	-2766
ANN	13421	-101664	55035	-13718

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	NORFOLK, VA 13737	Window:	1.000
Lat, Lon, Elev	36.90N 76.20W 30ft	Overhang:	0.446
Press, Stn Type	14.7psia Secondary	Vert Gap:	0.302

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	710	960	1290	1630	1830	1950	1860	1710	1420	1100	800	640	1330
	Std.Dev.	57	89	92	132	103	105	129	124	88	102	79	42	32
	Minimum	600	760	1080	1370	1580	1780	1640	1460	1230	830	610	550	1270
	Maximum	820	1140	1460	1930	2030	2130	2130	1940	1600	1260	930	710	1390
	Diffuse	310	410	530	670	790	840	840	760	620	460	330	290	570
Clear Day	Global	1020	1360	1810	2240	2500	2580	2500	2260	1880	1430	1060	900	1800
NORTH	Global	210	270	340	440	530	600	570	470	380	300	220	190	380
	Diffuse	210	270	340	430	490	520	510	460	380	300	220	190	360
Clear Day	Global	200	250	330	430	580	670	620	480	370	290	210	180	380
EAST	Global	470	610	780	940	990	1050	1000	950	820	680	530	430	770
	Diffuse	250	320	420	520	590	620	610	570	480	370	280	230	440
Clear Day	Global	750	940	1150	1320	1410	1410	1370	1290	1150	940	750	670	1100
SOUTH	Global	1080	1140	1090	950	790	720	740	880	1030	1160	1140	1040	980
	Diffuse	340	410	470	520	540	550	550	550	520	450	370	330	470
Clear Day	Global	1950	1950	1720	1310	980	830	880	1140	1500	1780	1870	1880	1480
WEST	Global	480	610	780	920	1000	1040	1000	940	840	680	520	430	770
	Diffuse	250	330	420	520	590	630	610	570	480	370	280	230	440
Clear Day	Global	750	940	1150	1320	1410	1410	1370	1290	1150	940	750	670	1100

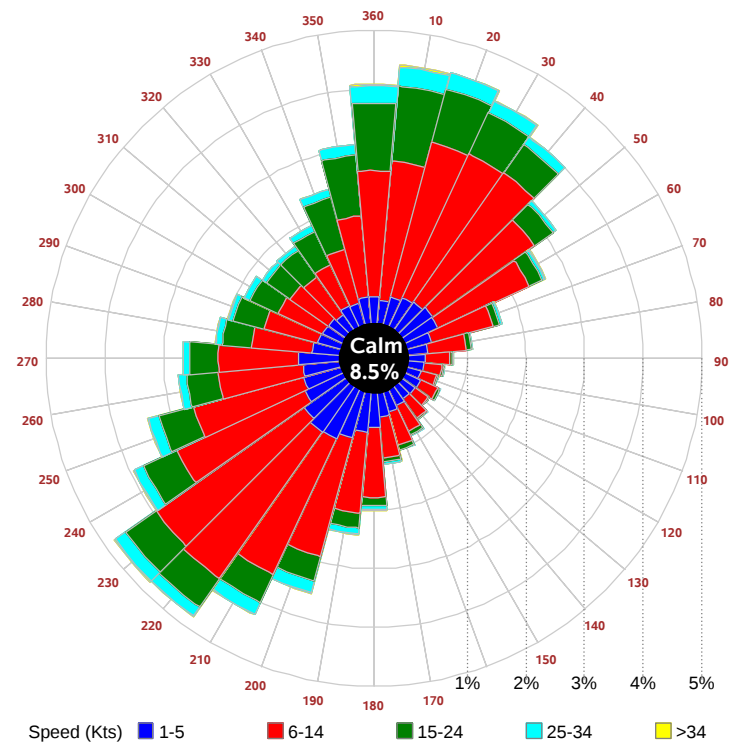
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	470	660	920	1180	1330	1420	1360	1240	1020	770	540	410	940
NORTH	Unshaded	140	190	240	300	350	390	370	320	270	210	160	130	260
	Shaded	130	170	220	270	320	350	340	290	240	190	140	120	230
EAST	Unshaded	330	430	550	670	700	740	710	670	580	480	370	290	540
	Shaded	300	390	490	600	610	650	620	590	520	430	340	270	480
SOUTH	Unshaded	810	830	750	600	480	430	450	550	690	820	850	780	670
	Shaded	790	770	610	420	350	350	350	380	520	740	830	770	570
WEST	Unshaded	330	430	550	650	710	730	700	670	590	480	360	300	540
	Shaded	300	390	500	580	620	640	620	590	530	430	330	270	480

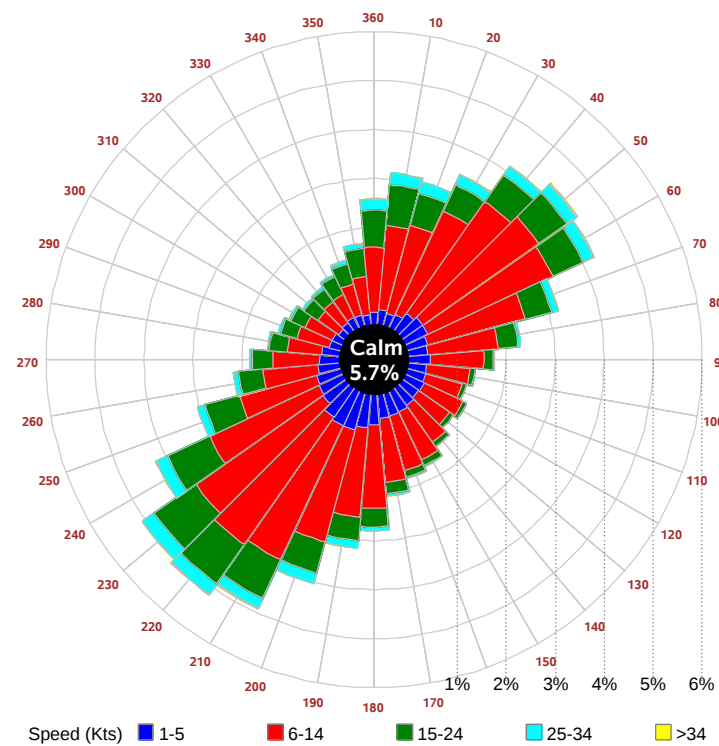
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	41	75	85	67	28	45	83	100	96	68	
	M.Cloudy	22	44	49	40	17	29	57	72	69	47	
NORTH	M.Clear	10	14	15	13	8	20	17	17	17	15	
	M.Cloudy	9	15	16	14	7	14	18	19	19	15	
EAST	M.Clear	75	58	15	13	8	73	72	32	17	15	
	M.Cloudy	24	30	16	14	7	34	45	27	19	15	
SOUTH	M.Clear	38	70	79	64	27	12	28	42	38	18	
	M.Cloudy	16	34	39	31	12	11	23	33	31	17	
WEST	M.Clear	10	14	22	67	67	12	17	17	51	77	
	M.Cloudy	9	15	19	33	22	11	18	19	39	45	
M.Clear	(% hrs)	40	38	37	36	37	39	39	36	34	34	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	27	67	86	79	48	17	44	51	33	3	
	M.Cloudy	16	42	57	54	31	10	26	29	19	3	
NORTH	M.Clear	9	15	17	16	12	6	10	11	8	2	
	M.Cloudy	7	15	18	17	12	4	10	11	8	1	
EAST	M.Clear	59	69	29	16	12	45	41	11	8	2	
	M.Cloudy	21	35	24	17	12	12	19	11	8	1	
SOUTH	M.Clear	19	53	71	64	36	40	81	90	65	9	
	M.Cloudy	10	29	43	40	21	12	31	35	23	3	
WEST	M.Clear	9	15	17	52	71	6	10	22	51	13	
	M.Cloudy	7	15	18	34	35	4	10	14	19	4	
M.Clear	(% hrs)	40	41	39	38	40	36	34	35	36	38	

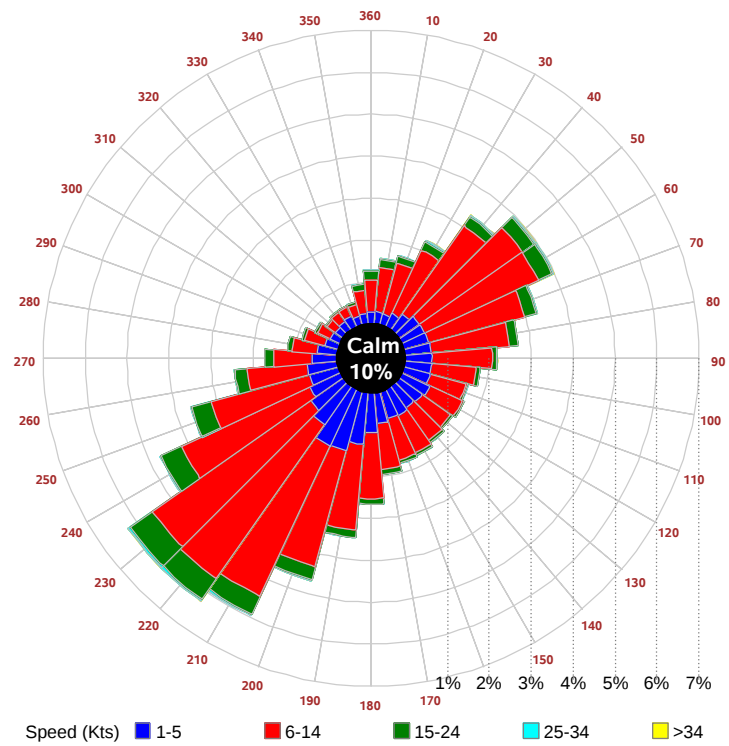
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

