

DEADHORSE, AKLatitude = 70.19 N
Longitude = 148.47 WStation ID = ICAO_PASC
Elevation = 61 FeetPeriod of Record = 1989 To 2018
Average Pressure = 29.90 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	77	61	56	12.5	W
0.4% Occurrence	68	58	55	11.4	WSW
1.0% Occurrence	63	55	53	10.9	E
2.0% Occurrence	59	53	52	10.8	E
Mean Daily Range	12	-	-	-	WSW
97.5% Occurrence	-33	-33	1	9.1	WSW
99.0% Occurrence	-39	-39	0	8.7	WSW
99.6% Occurrence	-44	-44	-	8.3	WSW
Median of Extreme Lows	-44	-44	-	8.3	WSW

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	63	73	68	10.9	E
0.4% Occurrence	58	65	59	10.7	WSW
1.0% Occurrence	56	62	56	10.7	E
2.0% Occurrence	54	60	53	10.4	E

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	70	65	0.47	9.2	SW
0.4% Occurrence	63	61	0.42	10.5	SW
1.0% Occurrence	58	60	0.39	9.5	E
2.0% Occurrence	53	58	0.36	9.8	E

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93°F	T ≥ 80°F	Twb ≥ 73°F	Twb ≥ 67°F
	# of Hours	0	3	0	2

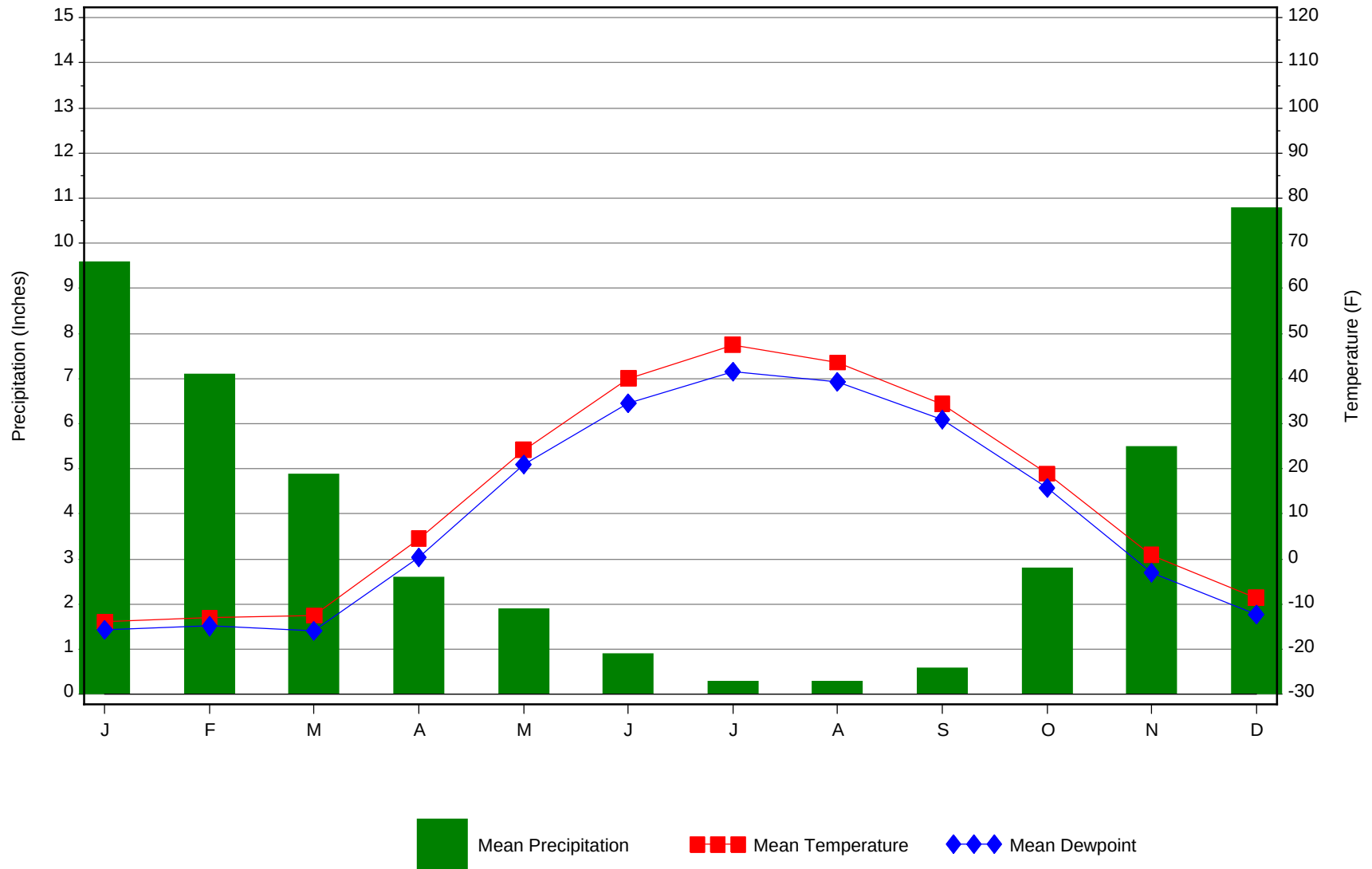
Other Site Data

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
1	N/A	N/A	0.0 + 0.0
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 (#)
16.8	N/A	N/A	34

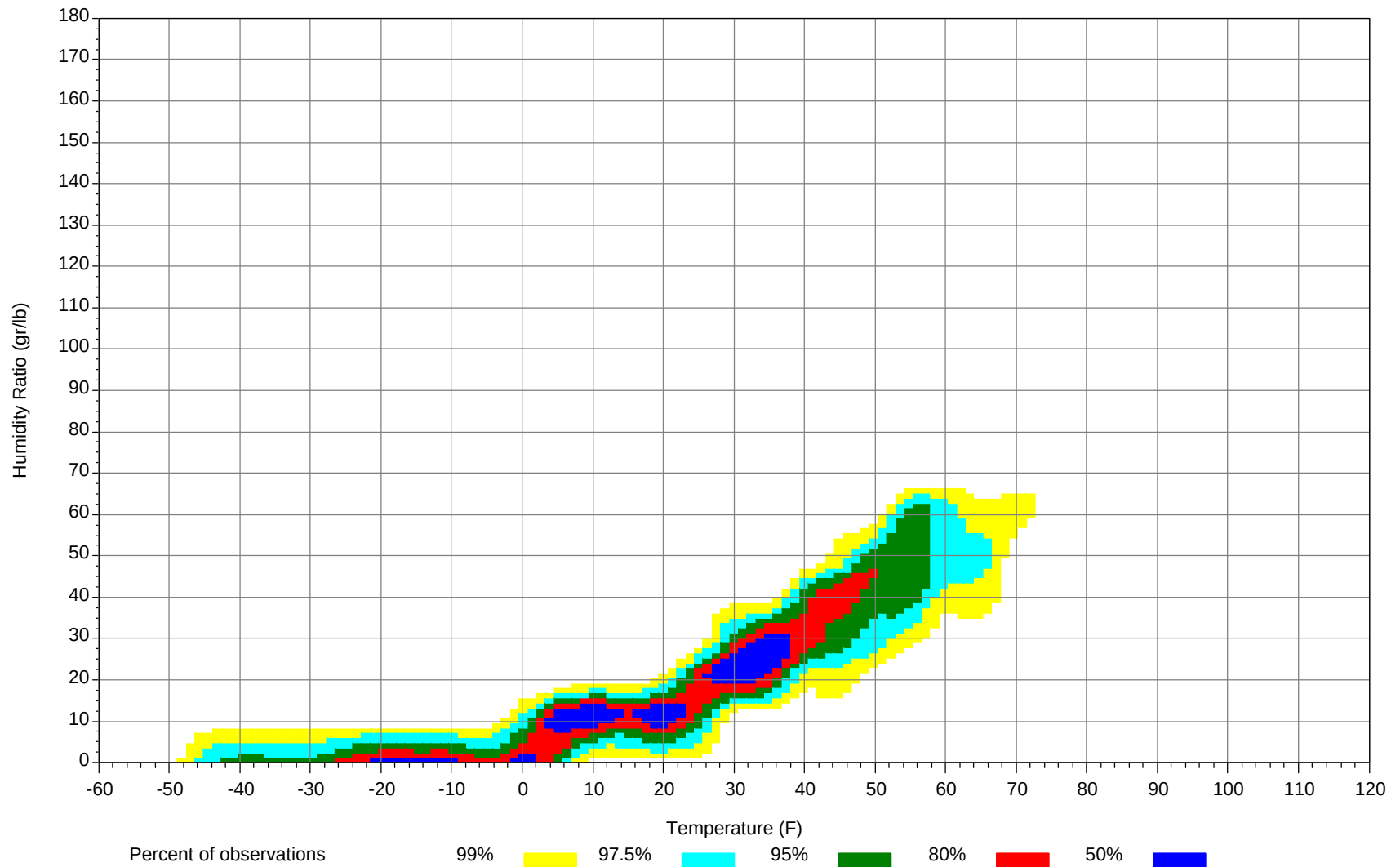
*Note: Temperatures at greater depths can be estimated by adding 1.5 °F per 100 feet additional depth.



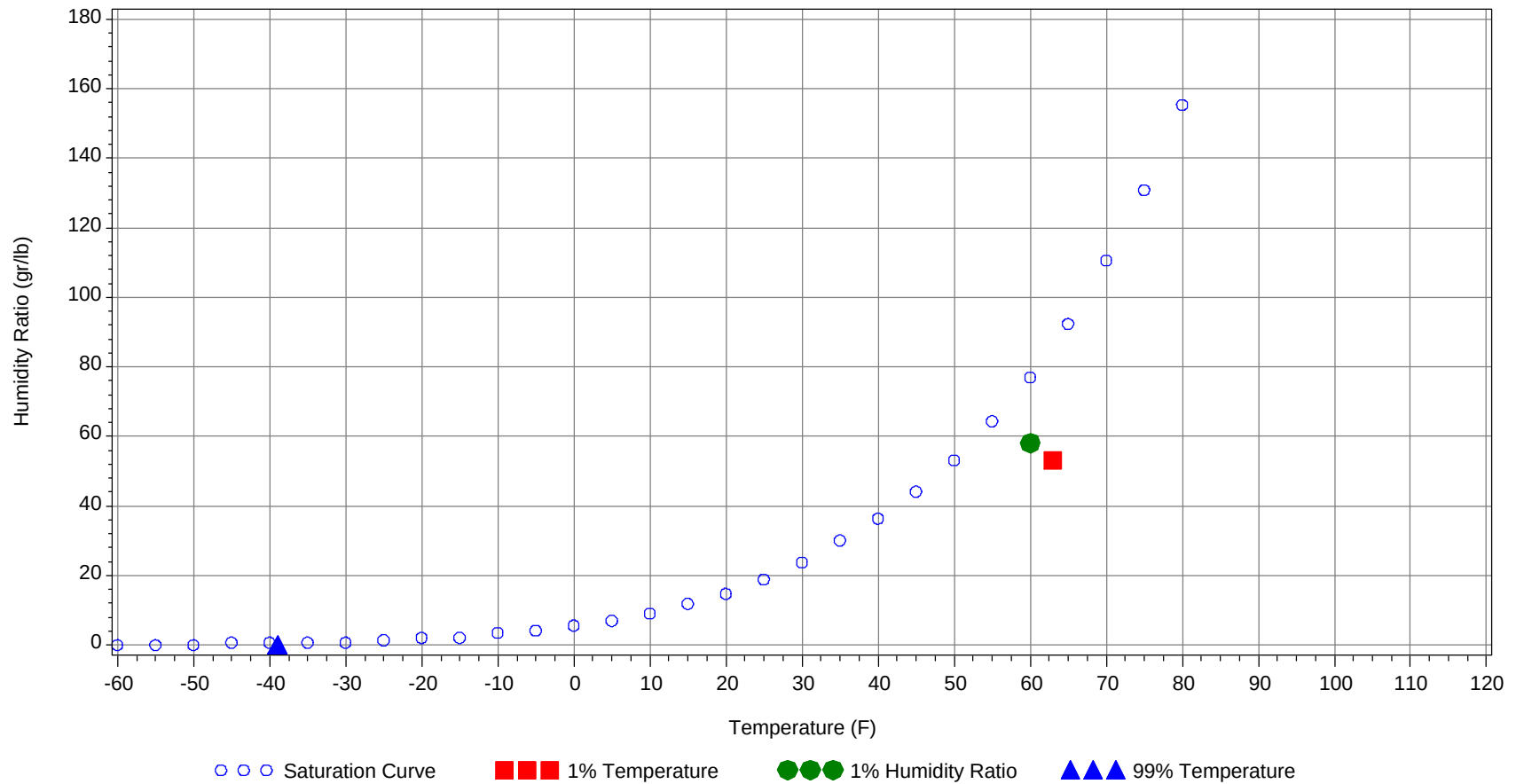
Average Annual Climate



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	63.0		55		53.0	23.2
99.0% Dry Bulb	-39.0				0.0	-9.3
1.0% Humidity Ratio	58.0	60.0	55.1	52.0		23.3

Dry-Bulb Temperature Hours For An Average Year

Temperature Range (°F)	January					February					March				
	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)
85/ 89															
80/ 84															
75/ 79															
70/ 74															
65/ 69															
60/ 64															
55/ 59															
50/ 54															
45/ 49															
40/ 44						0	0		0	28.3					
35/ 39	0	0	0	0	32.5	0	0	0	0	32.8		0	0	0	26.8
30/ 34	1	1	1	3	30.4	1	1	1	3	29.3	0	1	0	1	25.3
25/ 29	2	2	2	6	25.3	3	3	2	8	24.9	1	2	1	4	25.7
20/ 24	3	3	3	9	20.9	4	4	3	11	20.7	2	3	2	7	20.9
15/ 19	3	4	3	10	16.2	6	6	7	19	16	4	5	5	14	16.3
10/ 14	5	5	5	15	11	6	7	8	21	10.9	5	7	6	18	11
5/ 9	11	10	10	31	6	10	13	11	34	6.2	8	12	11	31	5.8
0/ 4	22	21	22	65	0.7	19	19	21	59	1	19	27	26	72	0.7
-5/ -1	18	20	18	56	-3.3	14	14	13	41	-3.6	19	21	22	62	-3.4
-10/ -6	35	34	34	103	-8	28	28	26	82	-8	35	37	35	107	-8
-15/-11	23	23	24	70	-12.4	19	21	18	58	-12.4	24	27	25	76	-12.3
-20/-16	35	33	37	105	-17.1	28	29	30	87	-17.2	33	37	38	108	-17.1
-25/-21	27	30	26	83	-22.2	29	30	28	87	-22.1	34	30	30	94	-22.2
-30/-26	28	25	26	79	-27.3	24	22	25	71	-27.3	30	23	28	81	-27.3
-35/-31	11	11	12	34	-31.8	11	9	11	31	-31.8	14	6	9	29	-31.4
-40/-36	11	12	12	35	-36.3	12	11	11	34	-36	9	7	6	22	-36.1
-45/-41	8	9	8	25	-41.1	5	6	6	17	-41.2	6	2	2	10	-41.6
-50/-46	3	4	4	11	-47.2	4	2	2	8	-45.8	3	1	1	5	-45.3
-55/-51	1	1	0	2	-52.4	0	1	0	1		1	0	0	1	
-60/-56		0	0	0	-55						0			0	

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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)
85/ 89															
80/ 84												0		0	60
75/ 79												1	0	1	59.2
70/ 74											0	2	1	3	57
65/ 69											0	5	2	7	55.6
60/ 64											2	13	6	21	53.4
55/ 59								0	0	49	5	14	11	30	50.9
50/ 54		0		0	44	0	1	1	2	46.4	10	20	16	46	47.4
45/ 49		0		0	39	0	3	2	5	42	18	35	29	82	43
40/ 44		0	0	0	36.4	1	6	4	11	38.4	25	36	36	97	39.3
35/ 39	1	2	2	5	33.6	11	31	23	65	34.6	66	67	72	205	35.5
30/ 34	2	6	4	12	30.2	53	64	71	188	30.9	89	42	58	189	31.3
25/ 29	6	12	11	29	25.3	57	50	52	159	26.2	23	5	8	36	26.9
20/ 24	9	16	15	40	20.9	31	26	27	84	21.2	1	0	1	2	21
15/ 19	21	30	28	79	16.4	38	32	33	103	16.8	0		0	0	18.1
10/ 14	26	34	33	93	11.1	23	21	18	62	11.3					
5/ 9	34	35	35	104	6.2	14	9	11	34	6.7					
0/ 4	36	41	44	121	1.1	11	3	4	18	1.4					
-5/ -1	21	19	20	60	-3.4	4	1	1	6	-3.1					
-10/ -6	33	24	25	82	-7.8	3	1	1	5	-7.2					
-15/-11	17	11	10	38	-12.3	1	0	0	1	-11.9					
-20/-16	18	7	9	34	-16.9	1		0	1	-16.6					
-25/-21	10	3	4	17	-22.1	0		0	0	-22.8					
-30/-26	5	1	1	7	-26.9										
-35/-31	1	0	0	1	-30.6										
-40/-36	0			0	-35.6										
-45/-41															
-50/-46															
-55/-51															
-60/-56															

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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)
85/ 89			0	0	66										
80/ 84		0	0	0	63.1		0		0	64					
75/ 79		3	1	4	61.2		1	0	1	62.9					
70/ 74	0	8	3	11	59.2	0	3	1	4	59.5					
65/ 69	1	13	6	20	57.5	0	7	3	10	57.5		0	0	0	52.8
60/ 64	5	27	16	48	55.1	2	16	10	28	55.3		2	1	3	51.6
55/ 59	17	31	27	75	52.3	8	21	18	47	52.2		4	1	5	49.7
50/ 54	32	43	42	117	48.6	20	30	27	77	48.9	1	10	6	17	47
45/ 49	55	56	58	169	44.2	38	47	42	127	44.5	8	19	14	41	43.8
40/ 44	54	39	46	139	40.3	49	54	53	156	40.5	13	24	20	57	40
35/ 39	66	27	42	135	36.4	85	55	71	211	36.4	62	73	68	203	35.7
30/ 34	20	1	7	28	32.2	41	14	23	78	31.8	95	71	84	250	31.2
25/ 29	0			0	28.2	5	1	2	8	27.3	44	29	32	105	26.2
20/ 24											11	6	10	27	21.4
15/ 19											5	2	4	11	17
10/ 14											1	0	1	2	12
5/ 9											0	0	0	0	6.5
0/ 4											0	0	0	0	2.4
-5/ -1											0			0	-3
-10/ -6															
-15/-11															
-20/-16															
-25/-21															
-30/-26															
-35/-31															
-40/-36															
-45/-41															
-50/-46															
-55/-51															
-60/-56															

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Dry-Bulb Temperature Hours For An Average Year

Temperature Range (°F)	October					November					December				
	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)
85/ 89															
80/ 84															
75/ 79															
70/ 74															
65/ 69															
60/ 64															
55/ 59															
50/ 54		0		0	45										
45/ 49	0	0	0	0	41.5										
40/ 44	0	2	0	2	38.3							0		0	29
35/ 39	3	7	5	15	34.8	0	0	0	0	32.9	0	0	0	0	32.7
30/ 34	28	33	29	90	30.6	2	2	2	6	30.1	1	1	1	3	29.2
25/ 29	58	58	58	174	25.7	6	6	6	18	25.5	2	2	2	6	25.4
20/ 24	39	34	38	111	21	12	12	11	35	21	2	3	2	7	21
15/ 19	45	45	42	132	16.8	23	20	22	65	16.4	6	6	7	19	16.2
10/ 14	27	26	28	81	11.1	29	27	28	84	11.1	10	10	10	30	11
5/ 9	22	19	21	62	6.5	31	31	30	92	6.2	18	19	18	55	6.3
0/ 4	13	13	13	39	1.5	39	40	40	119	1	37	34	36	107	0.9
-5/ -1	5	5	5	15	-3.4	22	20	21	63	-3.4	23	21	21	65	-3.5
-10/ -6	6	5	6	17	-7.6	25	28	27	80	-7.8	32	36	35	103	-8
-15/-11	1	1	1	3	-12.1	13	14	15	42	-12.4	27	27	28	82	-12.4
-20/-16	1	1	1	3	-17	16	17	17	50	-17.1	32	33	32	97	-17.1
-25/-21	0	0	0	0	-22	10	10	11	31	-21.9	25	23	24	72	-22.2
-30/-26		0	0	0	-27	7	7	8	22	-27	17	17	19	53	-27.1
-35/-31						4	4	3	11	-31.9	5	8	6	19	-32
-40/-36						1	0	1	2	-35.4	7	6	6	19	-36
-45/-41											2	2	2	6	-41.7
-50/-46												0	0	0	
-55/-51															
-60/-56															

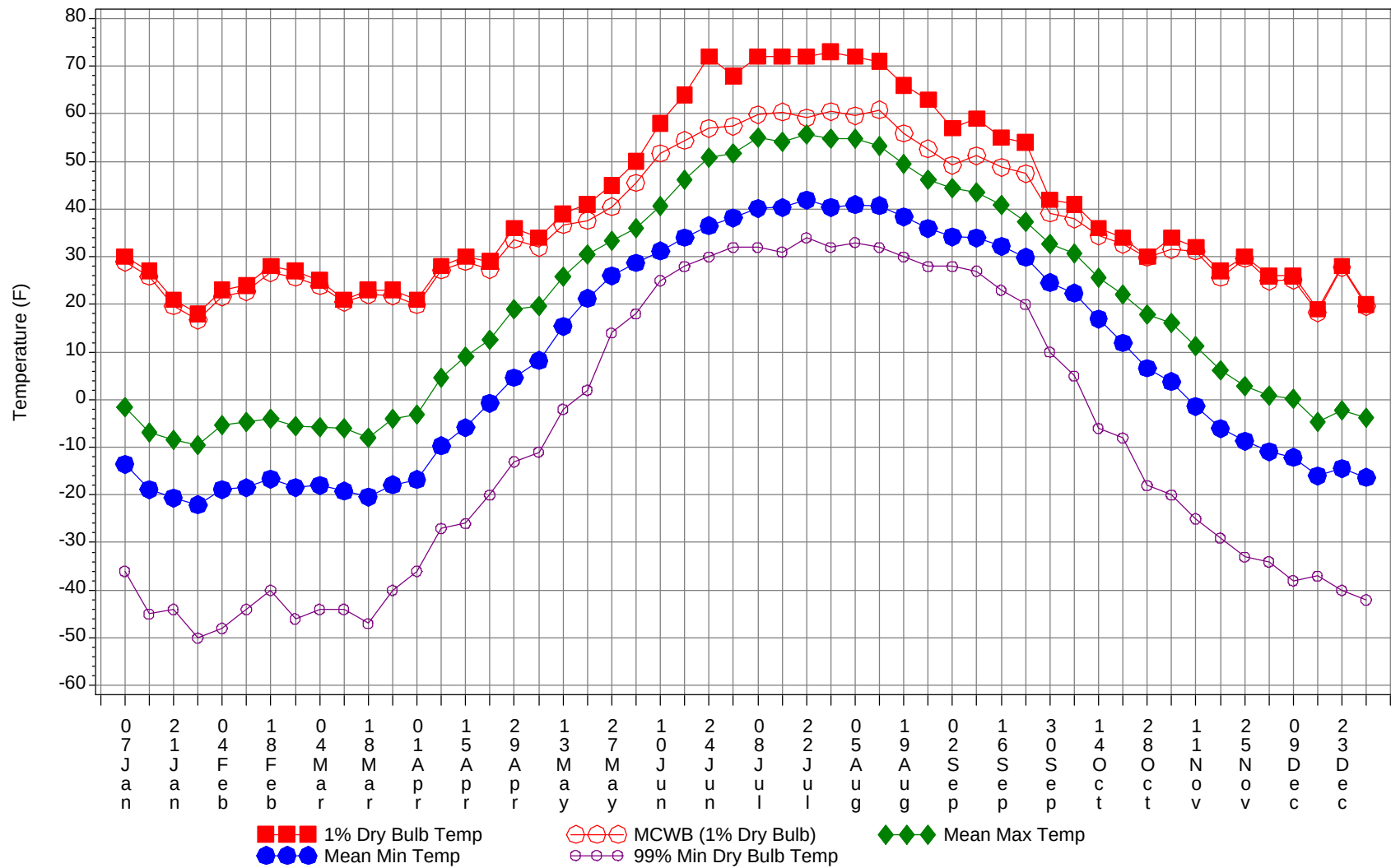
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

Dry-Bulb Temperature Hours For An Average Year

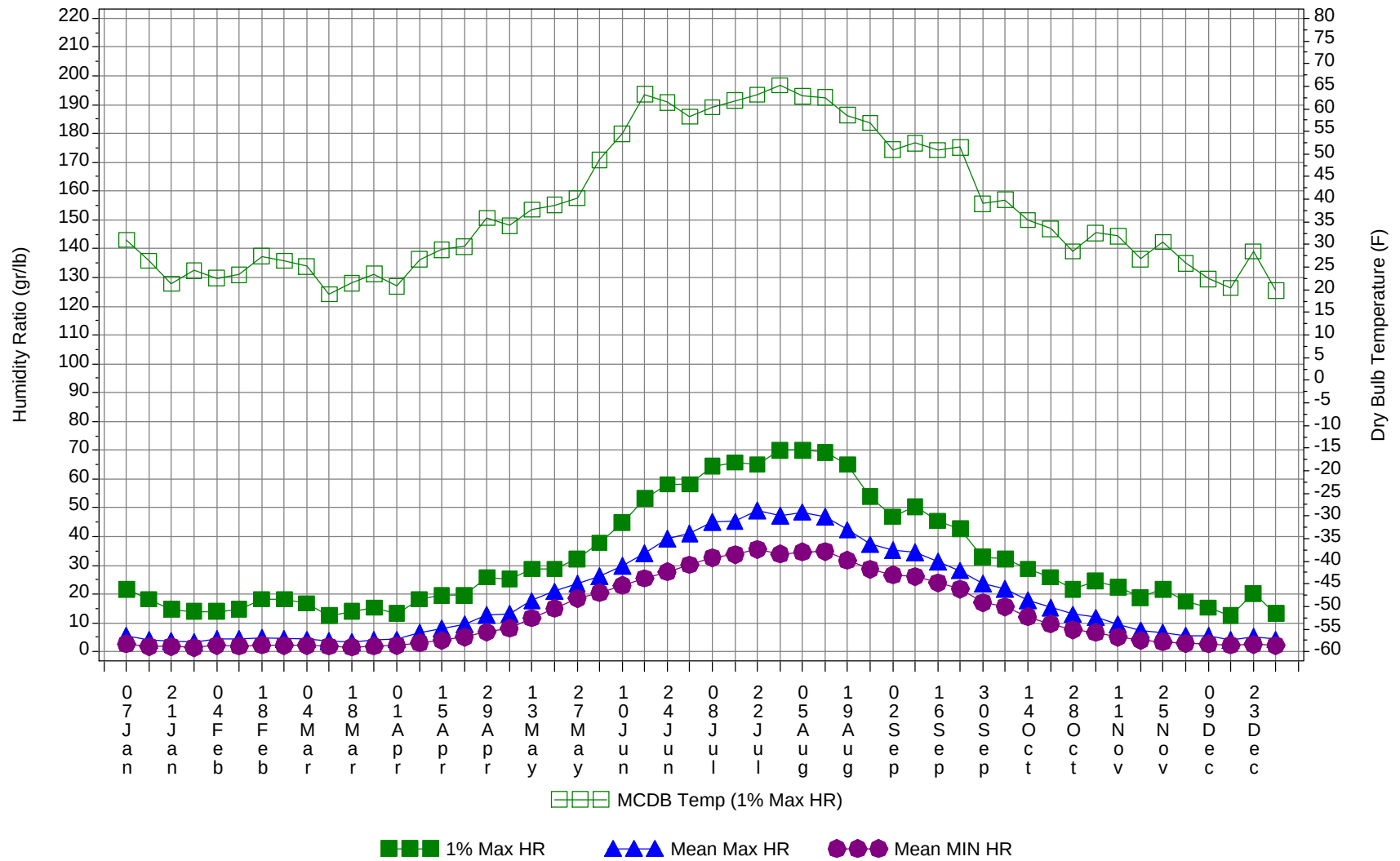
Temperature Range (°F)	Annual				
	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
85/ 89			0	0	66
80/ 84		0	0	0	62.8
75/ 79		5	1	6	61.2
70/ 74	0	13	5	18	58.9
65/ 69	1	25	11	37	57.1
60/ 64	9	58	34	101	54.7
55/ 59	30	71	58	159	51.9
50/ 54	63	105	92	260	48.4
45/ 49	121	162	146	429	44
40/ 44	143	163	160	466	40
35/ 39	297	267	287	851	35.8
30/ 34	336	240	283	859	31.1
25/ 29	210	171	179	560	26
20/ 24	115	109	113	337	21
15/ 19	153	150	152	455	16.6
10/ 14	133	136	136	405	11.1
5/ 9	148	149	148	445	6.3
0/ 4	196	197	204	597	1
-5/ -1	125	119	121	365	-3.4
-10/ -6	195	189	185	569	-7.9
-15/-11	125	123	120	368	-12.4
-20/-16	161	155	162	478	-17.1
-25/-21	132	123	120	375	-22.2
-30/-26	110	94	103	307	-27.2
-35/-31	45	38	39	122	-31.7
-40/-36	39	35	35	109	-36.1
-45/-41	20	18	18	56	-41.3
-50/-46	10	6	7	23	-46.6
-55/-51	2	2	1	5	-52.4
-60/-56	0	0	0	0	-55

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Annual Summary of Temperatures



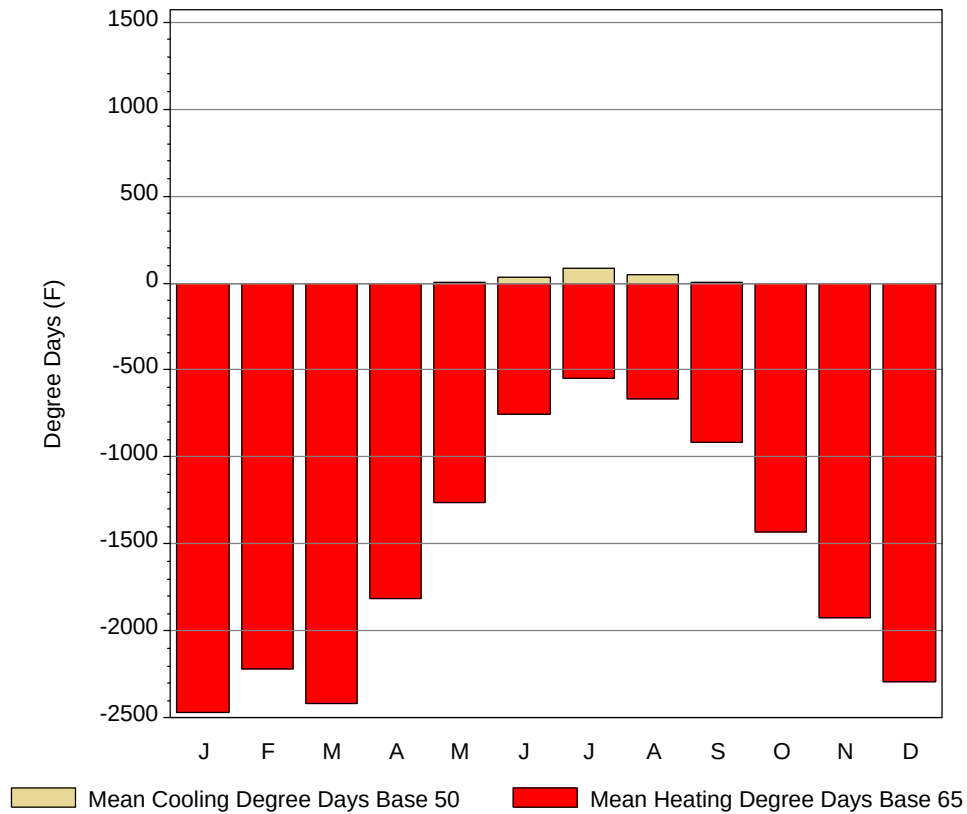
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

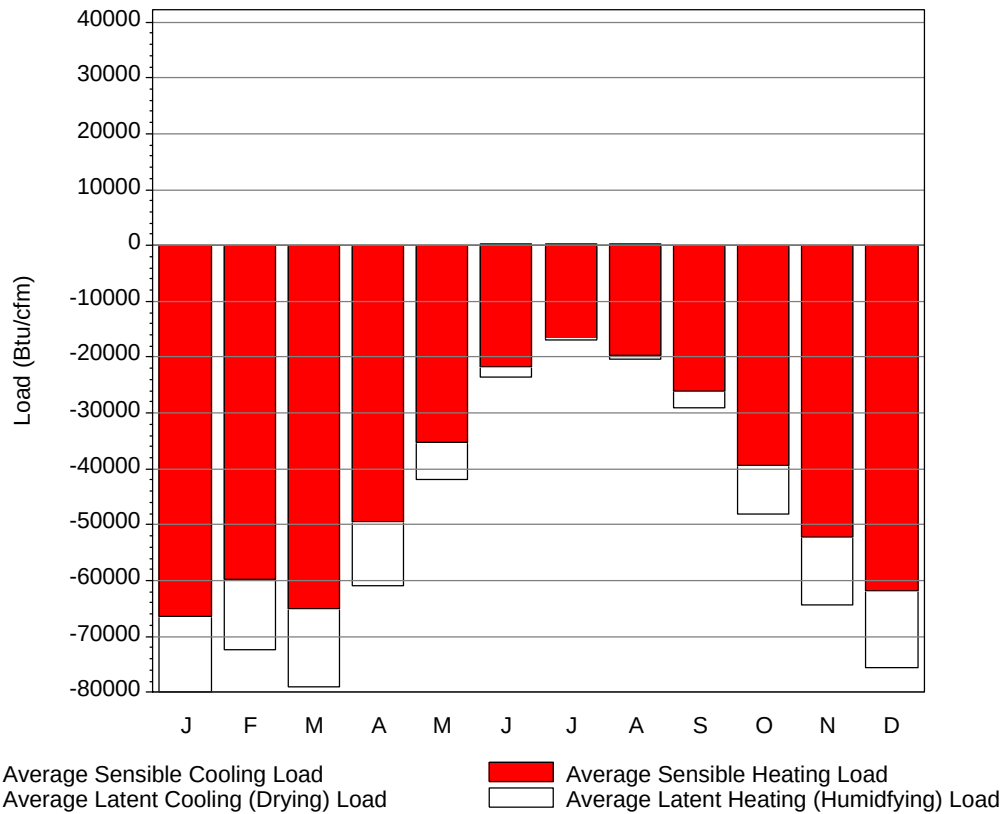
Week Ending	1.0% Temp (°F)	MCWB@ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB@ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	30	28.9	-1.6	-13.6	-36	21.7	31	5.5	2.7
14-Jan	27	25.9	-7	-18.9	-45	18.2	26.4	4	1.8
21-Jan	21	19.7	-8.5	-20.7	-44	14.7	21.3	3.6	1.8
28-Jan	18	16.7	-9.5	-22.1	-50	14	24.3	3.3	1.5
4-Feb	23	21.6	-5.4	-18.9	-48	14	22.6	4.4	2.1
11-Feb	24	22.7	-4.6	-18.5	-44	14.7	23.3	4.4	2
18-Feb	28	26.7	-4	-16.7	-40	18.2	27.4	4.7	2.3
25-Feb	27	25.6	-5.6	-18.4	-46	18.2	26.4	4.5	2.1
4-Mar	25	23.9	-5.7	-18	-44	16.8	25.2	4.3	2.1
11-Mar	21	20.5	-6.1	-19.2	-44	12.6	19	3.6	1.9
18-Mar	23	22	-7.9	-20.4	-47	14	21.5	3.5	1.7
25-Mar	23	21.8	-4.1	-17.9	-40	15.4	23.5	4.2	2
1-Apr	21	19.9	-3.1	-16.8	-36	13.3	20.8	4.3	2.1
8-Apr	28	27.2	4.5	-9.7	-27	18.2	26.7	6.5	3.1
15-Apr	30	29	9	-5.9	-26	19.6	28.9	8	3.9
22-Apr	29	27.3	12.6	-0.8	-20	19.6	29.6	9.5	5.1
29-Apr	36	33.6	19	4.6	-13	25.9	35.9	12.7	6.8
6-May	34	31.9	19.6	8.2	-11	25.2	34.2	13.2	8.2
13-May	39	36.7	25.9	15.4	-2	28.7	37.7	17.7	11.7
20-May	41	37.6	30.4	21.2	2	28.7	38.7	21	15
27-May	45	40.5	33.4	26	14	32.2	40.3	23.6	18.5
4-Jun	50	45.5	35.9	28.7	18	37.8	48.7	26.1	20.5
10-Jun	58	51.7	40.6	31.2	25	44.8	54.5	29.9	23
17-Jun	64	54.4	46.1	34	28	53.2	63.2	34.1	25.5
24-Jun	72	56.9	50.9	36.5	30	58.1	61.4	39.3	27.8
1-Jul	68	57.4	51.7	38.1	32	58.1	58.3	41	30.2
8-Jul	72	59.8	55.1	40.1	32	64.4	60.4	45.1	32.7
15-Jul	72	60.4	54.2	40.3	31	65.8	61.8	45.3	33.7
22-Jul	72	59.1	55.7	41.9	34	65.1	63.1	49	35.6
29-Jul	73	60.5	54.7	40.4	32	70	65.2	47.3	33.9
5-Aug	72	59.6	54.7	40.9	33	70	62.8	48.5	34.7
12-Aug	71	60.8	53.2	40.7	32	69.3	62.5	46.9	34.8
19-Aug	66	55.9	49.5	38.4	30	65.1	58.6	42.4	31.7
26-Aug	63	52.6	46.2	35.9	28	53.9	56.9	37.3	28.6
2-Sep	57	49.2	44.3	34.2	28	46.9	51	35.3	26.7
9-Sep	59	51.2	43.4	33.9	27	50.4	52.4	34.7	26.1
16-Sep	55	48.8	40.8	32.2	23	45.5	50.9	31.4	24
23-Sep	54	47.4	37.3	29.9	20	42.7	51.5	28.2	21.7
30-Sep	42	39.1	32.6	24.6	10	32.9	39	23.7	17.1
7-Oct	41	37.9	30.6	22.3	5	32.2	39.9	22	15.6
14-Oct	36	34.4	25.5	16.9	-6	28.7	35.4	17.8	12.1
21-Oct	34	32.6	22	11.9	-8	25.9	33.5	15.4	9.7
28-Oct	30	29.8	17.8	6.6	-18	21.7	28.5	13	7.6
4-Nov	34	31.5	16	3.8	-20	24.5	32.6	11.9	6.7
11-Nov	32	31.2	11.3	-1.4	-25	22.4	31.9	9.6	5.1
18-Nov	27	25.7	6.2	-6.1	-29	18.9	26.8	7.5	3.9
25-Nov	30	29.6	2.8	-8.7	-33	21.7	30.6	6.5	3.5
2-Dec	26	24.9	0.8	-10.9	-34	17.5	25.9	5.7	2.9
9-Dec	26	25.1	0.1	-12.1	-38	15.4	22.4	5.5	2.8
16-Dec	19	18.2	-4.7	-16	-37	12.6	20.4	4.2	2.3
23-Dec	28	27.7	-2.3	-14.5	-40	20.3	28.5	5.1	2.6
31-Dec	20	19.6	-3.7	-16.3	-42	13.3	19.9	4.3	2.1

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	0	0	2465.2
FEB	0	0	2217
MAR	0	0	2416.6
APR	0	0	1815.4
MAY	0.1	0	1262.6
JUN	31.5	1.9	752.6
JUL	81.9	6.1	549.7
AUG	45	2.3	666.7
SEP	4.4	0	917.1
OCT	0	0	1430.1
NOV	0	0	1924.9
DEC	0	0	2294.4
ANN	162.9	10.3	18712.3

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	0	-66310	0	-14027
FEB	0	-59660	0	-12691
MAR	0	-65048	0	-14020
APR	0	-49387	0	-11594
MAY	0	-35137	0	-6766
JUN	1	-21814	0	-1727
JUL	8	-16576	1	-330
AUG	2	-19657	0	-667
SEP	0	-26105	0	-2928
OCT	0	-39478	0	-8629
NOV	0	-52227	0	-12106
DEC	0	-61879	0	-13738
ANN	11	-513278	1	-99223

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	N/A	N/A	N/A
Lat, Lon, Elev	N/A	N/A	N/A
Press Stn Type	N/A	N/A	N/A

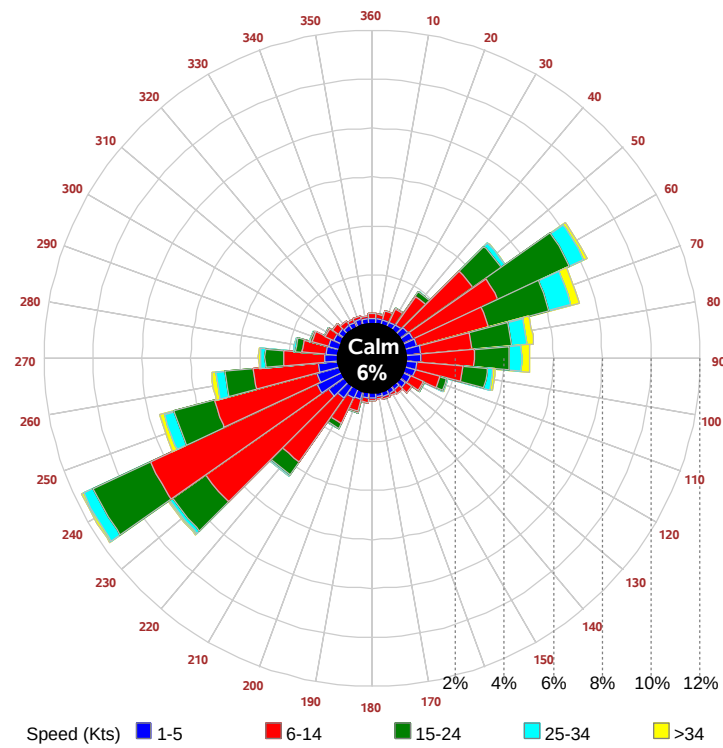
AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day), Percentage Uncertainty = 9														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ.	Global													
	Std.Dev.													
	Minimum													
	Maximum													
	Diffuse													
Clear Day	Global													
NORTH	Global													
	Diffuse													
	Clear Day	Global												
EAST	Global													
	Diffuse													
	Clear Day	Global												
SOUTH	Global													
	Diffuse													
	Clear Day	Global												
WEST	Global													
	Diffuse													
	Clear Day	Global												

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													
NORTH	Unshaded													
	Shaded													
EAST	Unshaded													
	Shaded													
SOUTH	Unshaded													
	Shaded													
WEST	Unshaded													
	Shaded													

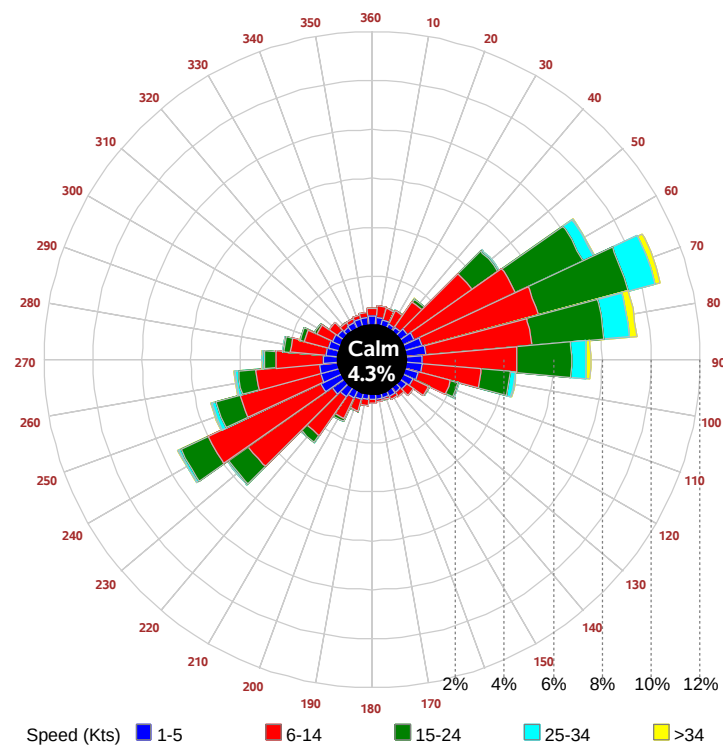
AVERAGE INCIDENT ILLUMINENCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9											
		March						June			
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear										
	M.Cloudy										
NORTH	M.Clear										
	M.Cloudy										
EAST	M.Clear										
	M.Cloudy										
SOUTH	M.Clear										
	M.Cloudy										
WEST	M.Clear										
	M.Cloudy										
M.Clear	(% hrs)										

		Sept						Dec			
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear										
	M.Cloudy										
NORTH	M.Clear										
	M.Cloudy										
EAST	M.Clear										
	M.Cloudy										
SOUTH	M.Clear										
	M.Cloudy										
WEST	M.Clear										
	M.Cloudy										
M.Clear	(% hrs)										

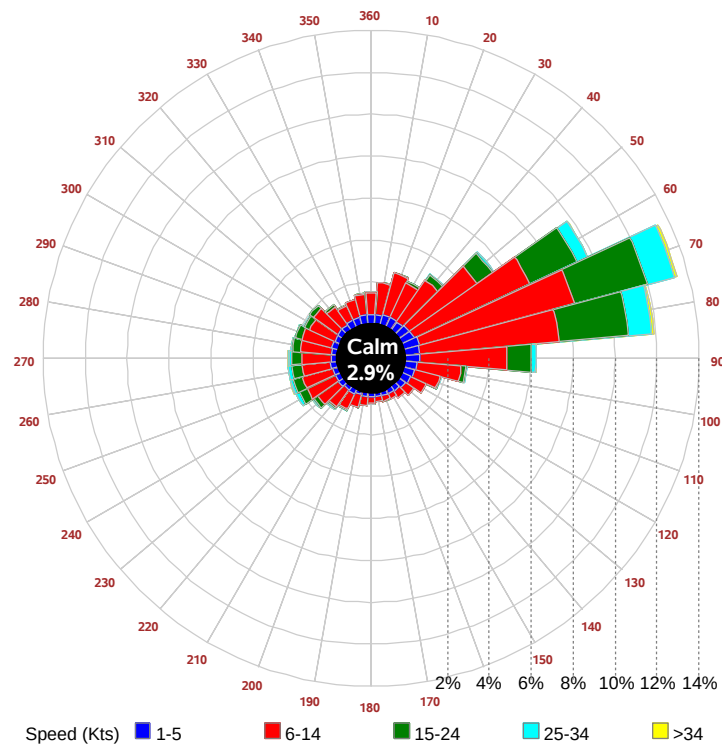
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

