

GRAY AAF, WA	Station ID = MSWT_KGRF
Latitude = 47.08 N	Elevation = 302 Feet
Longitude = 122.58 W	Average Pressure = 29.71 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	95	68	60	7	NNE
0.4% Occurrence	88	66	61	7.2	N
1.0% Occurrence	84	65	61	7.1	N
2.0% Occurrence	81	64	60	7.1	N
Mean Daily Range	18	-	-	-	S
97.5% Occurrence	28	27	19	3	S
99.0% Occurrence	25	24	17	3	SSE
99.6% Occurrence	21	20	13	3.5	SE
Median of Extreme Lows	16	15	10	4.1	SE

	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	70	87	80	7.1	W
0.4% Occurrence	68	84	75	7.1	W
1.0% Occurrence	66	81	71	7	N
2.0% Occurrence	64	76	68	6.7	N

	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	92	73	0.61	6.3	W
0.4% Occurrence	84	70	0.56	6	W
1.0% Occurrence	80	69	0.54	5.7	W
2.0% Occurrence	76	68	0.5	5.8	W

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	11	187	7	59

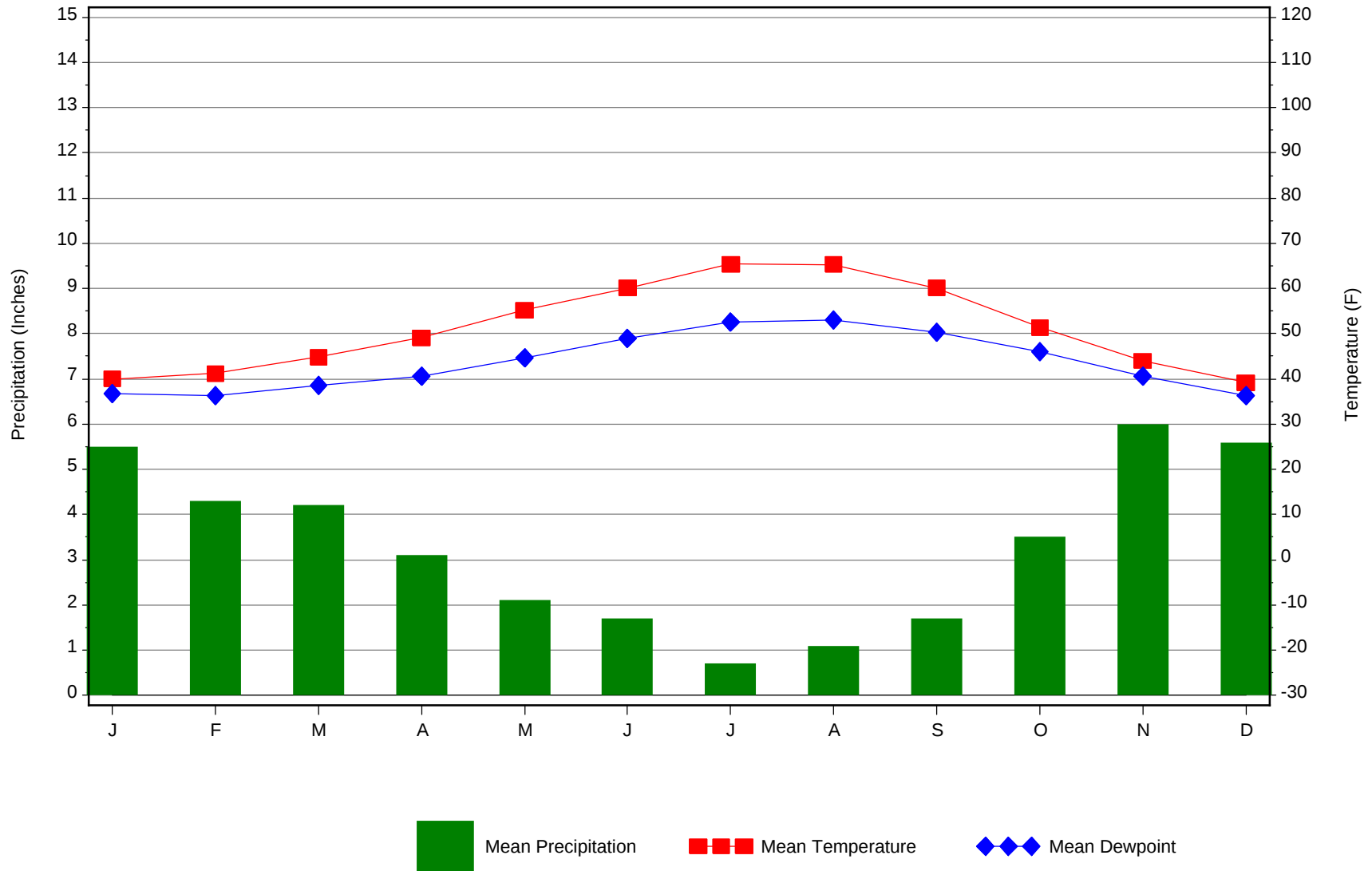
Other Site Data

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
7	1	85	0.0 + 0.2
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 (#)
53.9	9	20	41

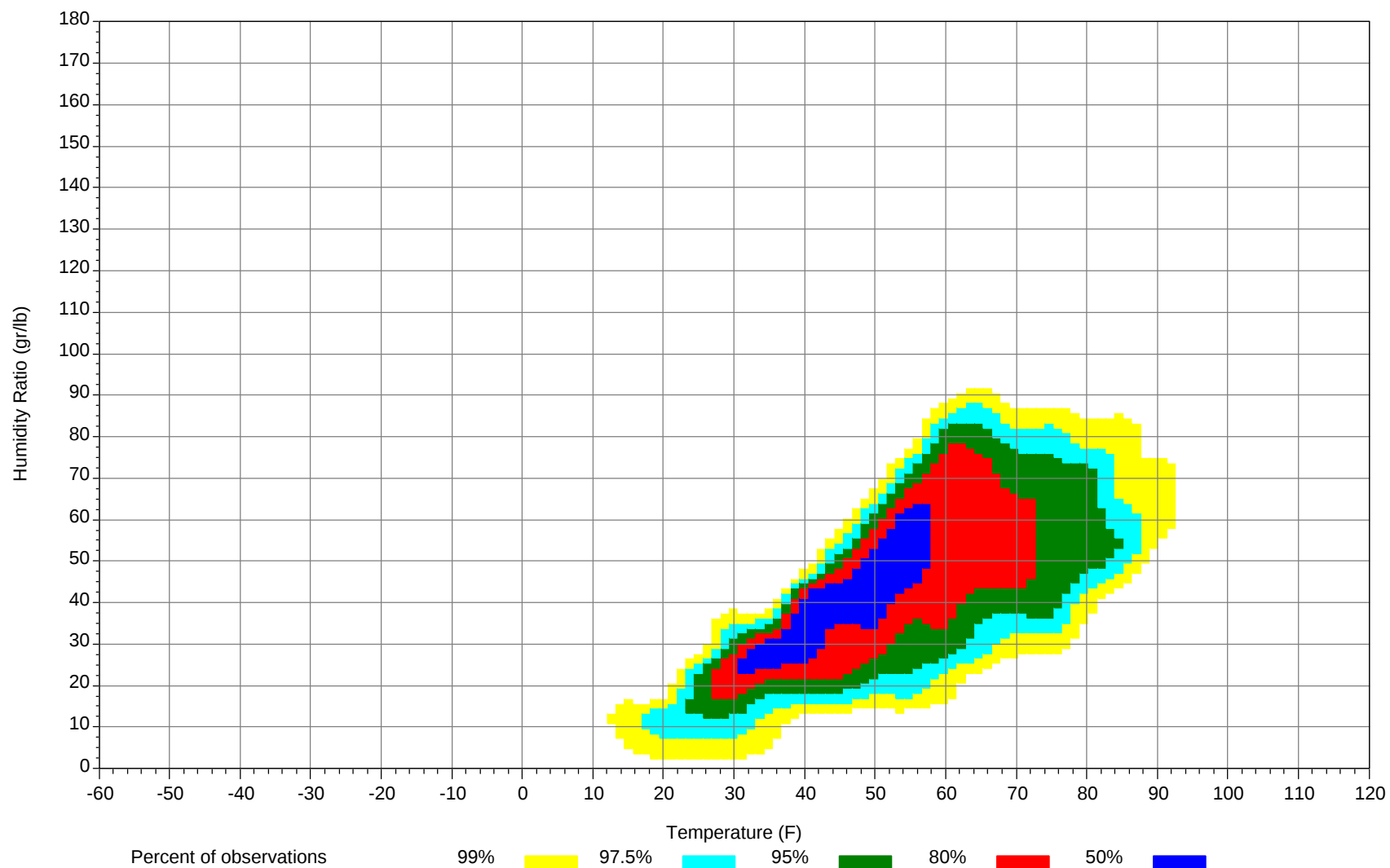
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



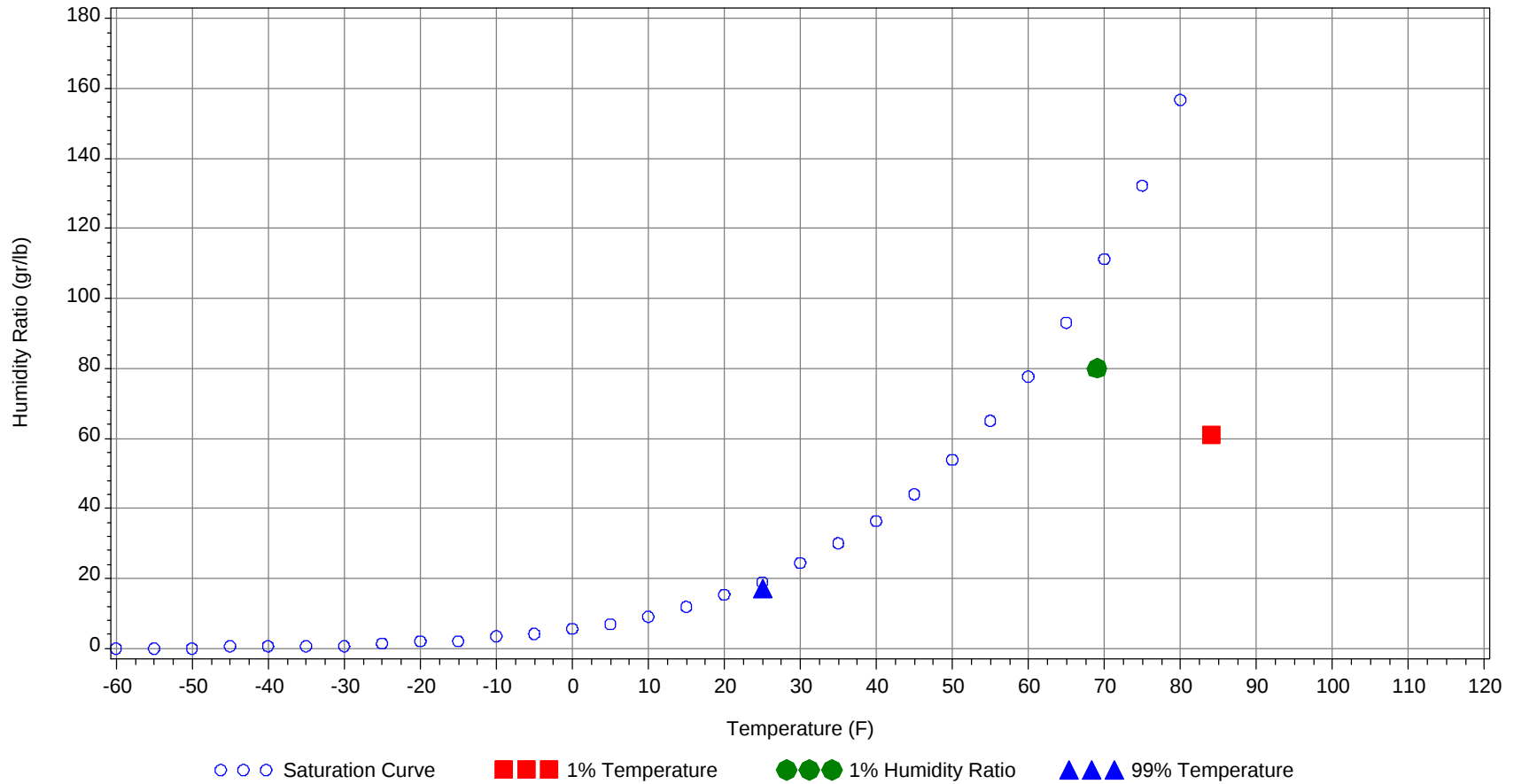
Average Annual Climate



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	84.0		65		61.0	29.6
99.0% Dry Bulb	25.0				17.0	8.6
1.0% Humidity Ratio	80.0	69.0	63.7	60.8		29.0

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															
80/ 84															
75/ 79															
70/ 74												1	0	1	54.9
65/ 69							0	0	0	54	0	4	1	5	53.1
60/ 64	0	1	0	1	55.5		3	1	4	50.8	0	12	4	16	51.2
55/ 59	2	7	3	12	52.6	1	15	4	20	50.1	2	33	15	50	49.5
50/ 54	14	36	17	67	48.9	6	48	21	75	47.5	14	73	45	132	47.1
45/ 49	36	67	53	156	44.8	32	69	62	163	44.1	52	79	75	206	44
40/ 44	48	55	55	158	40.7	48	43	50	141	40.4	60	32	54	146	40.4
35/ 39	60	50	60	170	36.3	52	30	48	130	36.2	61	13	39	113	36.5
30/ 34	49	24	39	112	31.4	49	12	28	89	31.3	44	2	14	60	31.7
25/ 29	23	6	16	45	26.4	27	2	7	36	26.3	15	0	1	16	27.3
20/ 24	10	2	4	16	21.4	5	1	2	8	21.1	1	0	0	1	22.1
15/ 19	6	1	1	8	17.5	3	1	1	5	15.8	0		0	0	15.5
10/ 14	0	0		0	12.4	1	0	0	1	11.6	0		0	0	13.5
5/ 9	0			0	8.5	0			0	7.4					
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)
100/104															
95/ 99												0	0	0	70.7
90/ 94							0	0	0	66.9		2	1	3	66.5
85/ 89		0	0	0	62.5		1	1	2	62.2		4	3	7	65
80/ 84		1	0	1	60.1		4	2	6	61.1		9	5	14	63.5
75/ 79		2	1	3	58.4		12	6	18	59.5	0	17	11	28	61.1
70/ 74		7	3	10	56.1	0	22	11	33	57.4	1	34	21	56	59.1
65/ 69		12	6	18	53.9	1	28	17	46	55.7	3	42	29	74	57.1
60/ 64	0	26	13	39	51.9	5	54	36	95	53.5	19	72	58	149	55.3
55/ 59	4	58	32	94	49.5	28	68	61	157	51.2	70	50	66	186	52.9
50/ 54	29	78	63	170	47.3	80	48	66	194	48.6	93	9	38	140	49.8
45/ 49	72	46	67	185	44.3	81	11	37	129	44.9	46	0	8	54	45.8
40/ 44	62	8	34	104	40.6	33	0	10	43	40.8	7		1	8	41.7
35/ 39	49	1	19	69	36.7	17		3	20	36.8	0			0	37.6
30/ 34	21	0	2	23	32	3			3	32.4					
25/ 29	2			2	27.9	0			0	28.5					
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)
100/104		0	0	0	71.1										
95/ 99		2	1	3	68.8		1	0	1	67.3		0	0	0	67.3
90/ 94		5	3	8	67.3		4	2	6	67.5		1	0	1	65.4
85/ 89		10	6	16	65.9		9	5	14	66.2		3	1	4	65.1
80/ 84	0	25	16	41	64.3		28	15	43	64.5		13	4	17	62.9
75/ 79	1	42	28	71	62.4	0	45	25	70	62.6		28	10	38	61.8
70/ 74	3	55	40	98	60.5	2	62	40	104	60.7	0	42	20	62	59.8
65/ 69	10	49	44	103	58.9	8	50	48	106	59.2	2	48	29	79	58.1
60/ 64	54	47	64	165	57.2	61	41	69	171	57.8	21	64	61	146	56.7
55/ 59	109	12	39	160	54.2	107	9	35	151	54.6	68	34	66	168	54.1
50/ 54	57	0	7	64	50.6	54	0	7	61	50.4	76	7	36	119	50.3
45/ 49	13		0	13	46.4	15		0	15	46.1	50	1	11	62	45.7
40/ 44	0			0	41.4	1			1	41.7	18		1	19	41.3
35/ 39											6		0	6	37
30/ 34											0			0	33.2
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)
100/104															
95/ 99															
90/ 94															
85/ 89		0		0	61.7										
80/ 84		0		0	61.1										
75/ 79		2	0	2	59.7										
70/ 74		7	1	8	58.2	0	0		0	59.8					
65/ 69	0	15	4	19	57.2	0	1	0	1	59	0	0		0	54.3
60/ 64	3	49	17	69	55.6	1	6	2	9	57.3	0	1	0	1	54.9
55/ 59	28	80	53	161	53.3	8	29	12	49	53.3	3	5	3	11	53.1
50/ 54	61	64	81	206	49.6	28	66	41	135	49.3	11	22	13	46	49
45/ 49	68	23	56	147	45.5	54	76	64	194	44.8	32	69	41	142	44.6
40/ 44	42	5	24	71	41.2	50	34	54	138	40.8	47	63	60	170	40.6
35/ 39	32	1	10	43	36.9	43	17	36	96	36.6	64	51	65	180	36.4
30/ 34	11	0	2	13	32.1	32	8	22	62	31.8	49	25	41	115	31.6
25/ 29	2		1	3	26.7	17	2	8	27	26.5	27	7	17	51	26.4
20/ 24	0			0	21.9	6	0	1	7	21.7	9	3	4	16	21.1
15/ 19						1	0	0	1	17	4	1	2	7	16.4
10/ 14						1		0	1	11.7	2	0	1	3	11.4
5/ 9											1	0	0	1	7.7
0/ 4											0	0		0	3

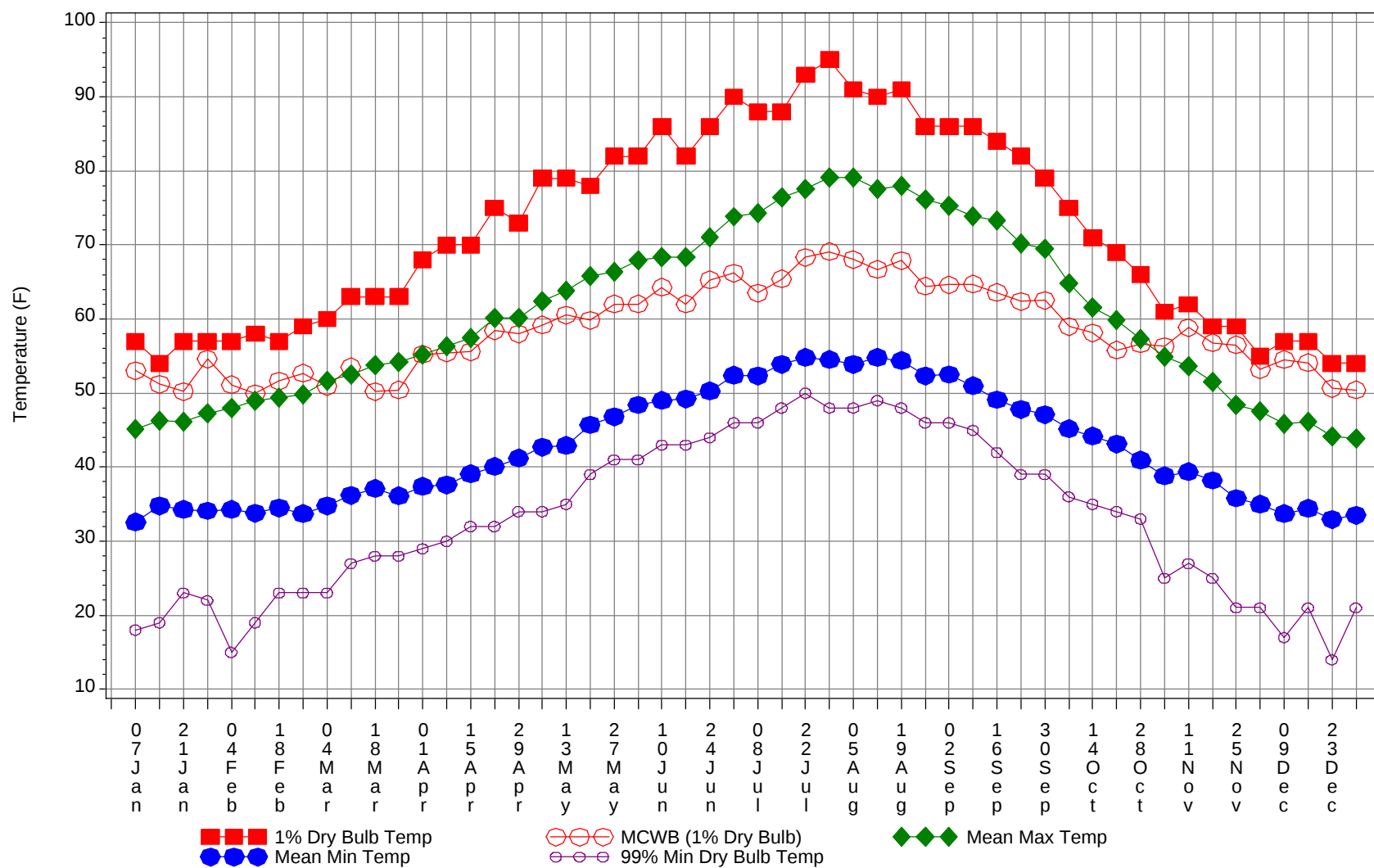
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Dry-Bulb Temperature Hours For An Average Year

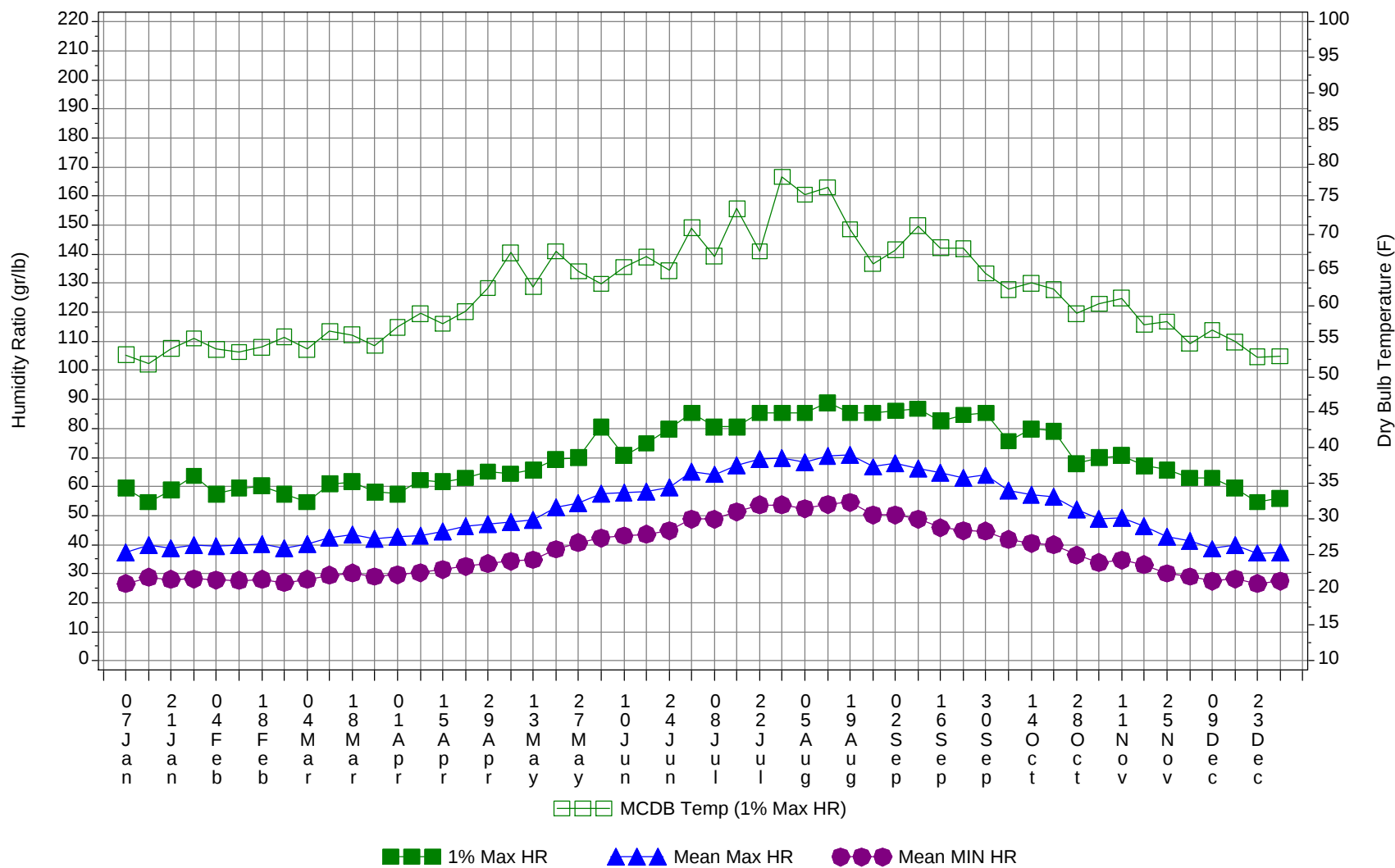
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
100/104		0	0	0	71.1
95/ 99		3	1	4	68.6
90/ 94		13	7	20	67.1
85/ 89		28	16	44	65.6
80/ 84	0	80	43	123	63.9
75/ 79	1	149	82	232	61.9
70/ 74	7	231	137	375	59.8
65/ 69	25	250	180	455	57.9
60/ 64	166	375	326	867	56
55/ 59	433	399	389	1221	52.9
50/ 54	522	452	433	1407	48.9
45/ 49	550	440	474	1464	44.7
40/ 44	415	240	340	995	40.7
35/ 39	381	163	278	822	36.5
30/ 34	256	71	146	473	31.6
25/ 29	112	18	50	180	26.5
20/ 24	31	6	10	47	21.3
15/ 19	14	2	4	20	16.7
10/ 14	4	1	2	7	11.6
5/ 9	1	0	0	1	7.7
0/ 4	0	0		0	3

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



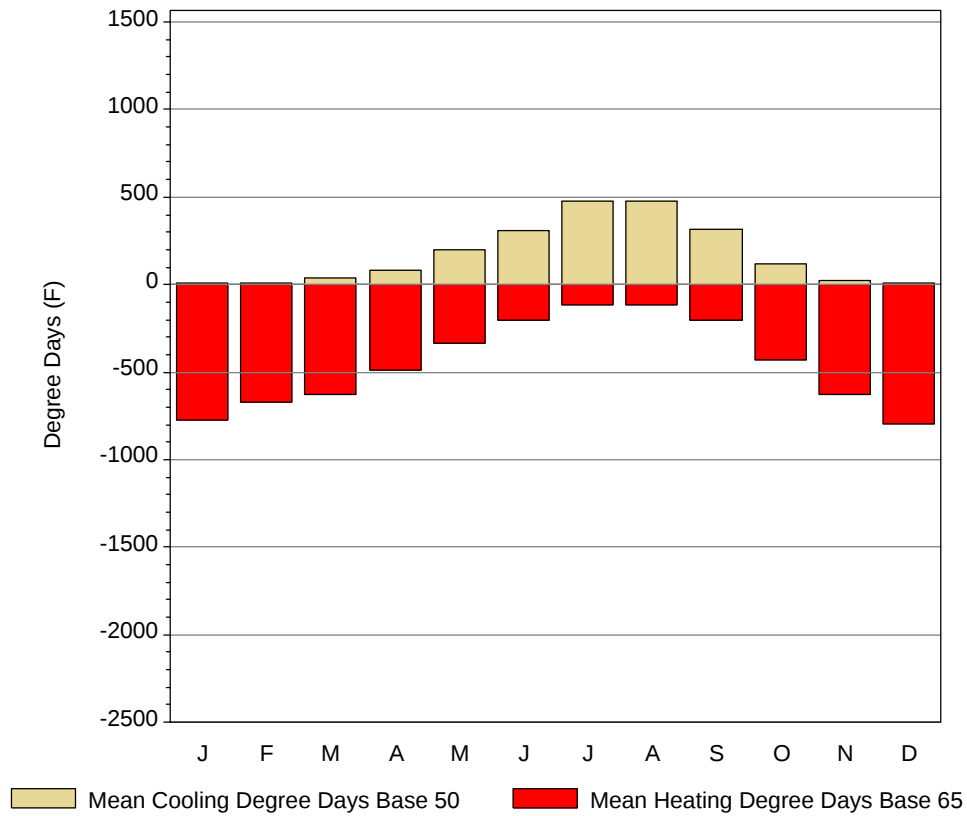
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

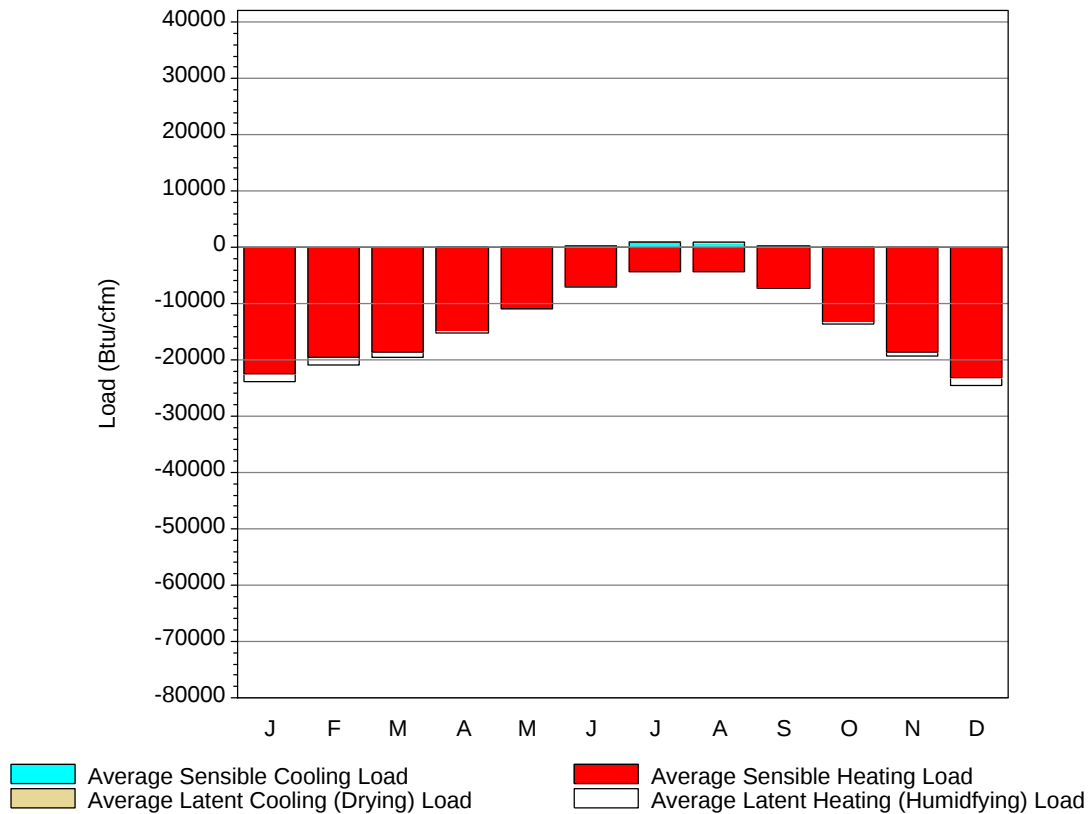
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	57	53	45.1	32.6	18	59.5	53.1	37.3	26.5
14-Jan	54	51.2	46.2	34.8	19	54.6	51.8	39.9	28.7
21-Jan	57	50.2	46.1	34.3	23	58.8	54	38.8	28
28-Jan	57	54.6	47.3	34.1	22	63.7	55.4	39.9	28.2
4-Feb	57	51.1	47.9	34.3	15	57.4	53.9	39.5	27.8
11-Feb	58	49.9	48.9	33.8	19	59.5	53.5	39.7	27.6
18-Feb	57	51.6	49.4	34.5	23	60.2	54.2	40.2	28
25-Feb	59	52.7	49.8	33.7	23	57.4	55.6	38.7	27
4-Mar	60	50.9	51.6	34.8	23	54.6	53.9	40.1	28
11-Mar	63	53.5	52.5	36.2	27	60.9	56.4	42.4	29.5
18-Mar	63	50.2	53.7	37.1	28	61.6	55.9	43.4	30.2
25-Mar	63	50.4	54.2	36.1	28	58.1	54.4	42.1	29
1-Apr	68	55.2	55.2	37.4	29	57.4	57	42.7	29.7
8-Apr	70	55.4	56.3	37.6	30	62.3	58.9	43.2	30.3
15-Apr	70	55.6	57.4	39.1	32	61.6	57.5	44.5	31.4
22-Apr	75	58.4	60.2	40.1	32	63	59.2	46.4	32.5
29-Apr	73	58	60.2	41.2	34	65.1	62.5	47.2	33.4
6-May	79	59.2	62.4	42.7	34	64.4	67.5	47.9	34.3
13-May	79	60.5	63.8	42.9	35	65.8	62.7	48.4	34.8
20-May	78	59.8	65.8	45.7	39	69.3	67.7	52.8	38.4
27-May	82	62	66.4	46.8	41	70	64.9	54.4	40.6
4-Jun	82	62	67.9	48.4	41	80.5	63.1	57.6	42.3
10-Jun	86	64.3	68.3	49	43	70.7	65.5	58	43.1
17-Jun	82	62	68.3	49.2	43	74.9	66.9	58.3	43.6
24-Jun	86	65.3	71.1	50.3	44	79.8	65	59.7	44.8
1-Jul	90	66.2	73.8	52.4	46	85.4	71	65.1	48.8
8-Jul	88	63.5	74.3	52.3	46	80.5	67	64.2	48.7
15-Jul	88	65.4	76.4	53.9	48	80.5	73.7	67.3	51.3
22-Jul	93	68.3	77.6	54.8	50	85.4	67.7	69.4	53.6
29-Jul	95	69.1	79.1	54.5	48	85.4	78.2	69.7	53.6
5-Aug	91	68	79.1	53.9	48	85.4	75.7	68.5	52.4
12-Aug	90	66.7	77.6	54.8	49	88.9	76.7	70.5	53.8
19-Aug	91	67.9	78	54.4	48	85.4	70.8	70.9	54.6
26-Aug	86	64.4	76.1	52.3	46	85.4	65.9	66.8	50.3
2-Sep	86	64.6	75.3	52.5	46	86.1	67.9	67.9	50.3
9-Sep	86	64.7	73.9	51	45	86.8	71.3	66.1	48.8
16-Sep	84	63.6	73.3	49.1	42	82.6	68.2	64.8	45.8
23-Sep	82	62.4	70.2	47.8	39	84.7	68.1	63	44.8
30-Sep	79	62.5	69.5	47.1	39	85.4	64.6	63.9	44.6
7-Oct	75	59	64.8	45.2	36	75.6	62.3	58.6	41.8
14-Oct	71	58.1	61.6	44.2	35	79.8	63.2	57.2	40.5
21-Oct	69	55.8	59.8	43.1	34	79.1	62.3	56.4	40
28-Oct	66	56.6	57.3	40.9	33	67.9	58.9	52.2	36.4
4-Nov	61	56.3	54.9	38.8	25	70	60.3	48.8	33.8
11-Nov	62	58.8	53.6	39.4	27	70.7	61.1	49.3	34.7
18-Nov	59	56.8	51.5	38.2	25	67.2	57.4	46.3	33.1
25-Nov	59	56.5	48.4	35.8	21	65.8	57.8	42.8	30.1
2-Dec	55	53.2	47.5	35	21	63	54.7	41.2	29
9-Dec	57	54.5	45.8	33.7	17	63	56.6	38.6	27.5
16-Dec	57	54.1	46.1	34.4	21	59.5	54.9	39.8	28.2
23-Dec	54	50.6	44.1	32.9	14	54.6	52.8	37.1	26.6
31-Dec	54	50.4	43.8	33.5	21	56	52.9	37.2	27.4

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	7.9	0	775
FEB	12.2	0	671.9
MAR	34.5	0.6	628.4
APR	82.5	5.9	489.1
MAY	199.3	26.9	335.1
JUN	310.7	53.3	201.1
JUL	479.1	127	114.4
AUG	477.1	123.3	113.2
SEP	318.7	58.6	206.7
OCT	117.5	4.7	430.1
NOV	26.1	0.1	630.6
DEC	6.1	0	797.2
ANN	2071.7	400.4	5392.8

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	0	-22498	0	-1414
FEB	0	-19614	0	-1337
MAR	0	-18687	0	-782
APR	13	-14936	0	-345
MAY	104	-10825	10	-107
JUN	293	-7058	24	-3
JUL	862	-4398	58	-1
AUG	767	-4355	98	-3
SEP	266	-7140	63	-19
OCT	6	-13491	9	-149
NOV	0	-18676	3	-715
DEC	0	-23074	0	-1426
ANN	2311	-164752	265	-6301

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	OLYMPIA, WA 24227	Window:	1.000
Lat, Lon, Elev	46.97N 122.90W 200ft	Overhang:	0.735
Press, Stn_Type	14.6psia Secondary	Vert Gap:	0.328

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	320	530	880	1250	1590	1770	1860	1600	1200	700	380	270	1030
	Std.Dev.	31	65	97	116	143	186	167	150	103	76	38	17	38
	Minimum	260	390	710	1020	1280	1460	1540	1260	960	590	300	240	940
	Maximum	400	700	1140	1460	1880	2090	2180	1900	1450	880	480	310	1100
	Diffuse	250	370	530	730	860	900	810	700	550	410	280	210	550
Clear Day	Global	590	930	1460	2040	2460	2640	2540	2180	1650	1080	660	490	1560
NORTH	Global	130	200	300	420	540	610	590	470	350	240	150	110	340
	Diffuse	130	200	300	410	500	540	520	440	340	240	150	110	330
Clear Day	Global	130	190	290	400	580	700	650	460	320	220	140	110	350
EAST	Global	200	320	520	730	880	950	1000	870	700	400	230	170	580
	Diffuse	160	240	360	490	590	620	600	530	420	280	180	130	380
Clear Day	Global	510	730	1030	1330	1500	1560	1520	1380	1130	820	550	440	1040
SOUTH	Global	450	640	830	890	870	860	950	1020	1080	810	490	390	770
	Diffuse	230	320	430	540	590	600	590	550	490	370	250	200	430
Clear Day	Global	1640	1840	1870	1620	1340	1200	1240	1470	1750	1830	1670	1530	1580
WEST	Global	220	360	570	770	970	1080	1160	1040	820	510	260	180	660
	Diffuse	160	240	370	500	600	640	630	550	430	300	180	140	400
Clear Day	Global	510	730	1030	1330	1500	1560	1520	1380	1130	820	550	440	1040

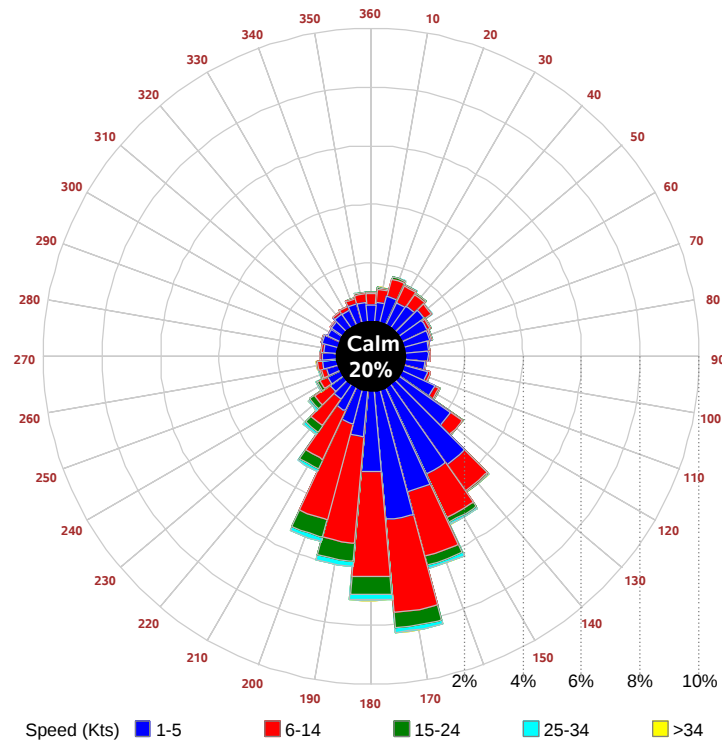
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	210	360	610	890	1130	1270	1340	1150	850	480	250	170	730
NORTH	Unshaded	93	140	210	290	360	410	390	310	240	170	100	79	230
	Shaded	71	110	170	230	290	330	320	260	200	130	81	61	190
EAST	Unshaded	140	220	370	510	620	670	710	610	490	280	160	120	410
	Shaded	110	180	290	400	480	520	550	480	390	220	130	95	320
SOUTH	Unshaded	330	470	590	600	570	550	600	680	750	590	370	290	530
	Shaded	310	410	440	360	330	340	340	350	490	480	330	270	370
WEST	Unshaded	150	250	400	550	690	770	830	750	580	360	180	120	470
	Shaded	120	200	320	440	540	600	650	590	470	290	140	100	370

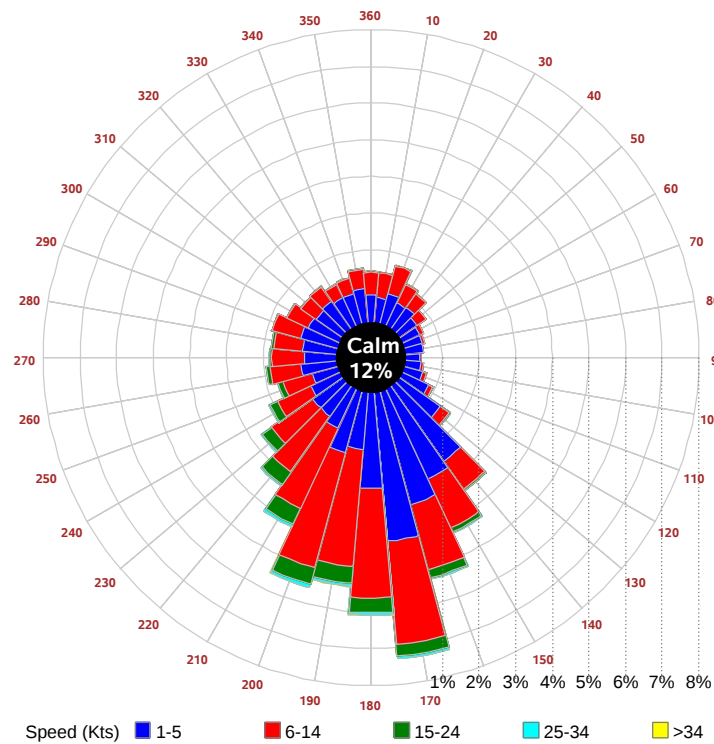
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	29	59	69	55	24	46	79	97	93	70	
	M.Cloudy	16	33	38	32	15	26	45	60	59	43	
NORTH	M.Clear	8	12	13	12	7	15	15	17	16	15	
	M.Cloudy	7	13	14	12	6	11	16	19	19	15	
EAST	M.Clear	62	54	13	12	7	78	73	34	16	15	
	M.Cloudy	18	24	14	12	6	27	34	26	19	15	
SOUTH	M.Clear	35	73	86	69	28	11	39	58	54	30	
	M.Cloudy	12	28	35	29	12	11	24	36	34	21	
WEST	M.Clear	8	12	17	59	59	11	15	17	48	79	
	M.Cloudy	7	13	15	26	20	11	16	19	32	38	
M.Clear	(% hrs)	15	14	15	17	18	23	23	24	28	31	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	23	57	75	71	45	5	25	31	18	0	
	M.Cloudy	12	31	46	45	26	3	14	16	10	0	
NORTH	M.Clear	7	13	15	14	11	2	8	8	6	0	
	M.Cloudy	6	12	16	15	10	2	6	7	5	0	
EAST	M.Clear	59	68	30	14	11	17	31	8	6	0	
	M.Cloudy	15	27	22	15	10	3	10	7	5	0	
SOUTH	M.Clear	19	58	81	75	44	15	62	74	48	0	
	M.Cloudy	8	24	40	40	20	3	14	16	11	0	
WEST	M.Clear	7	13	15	48	73	2	8	15	34	0	
	M.Cloudy	6	12	16	29	29	2	6	8	9	0	
M.Clear	(% hrs)	27	31	35	38	43	8	9	10	11	13	

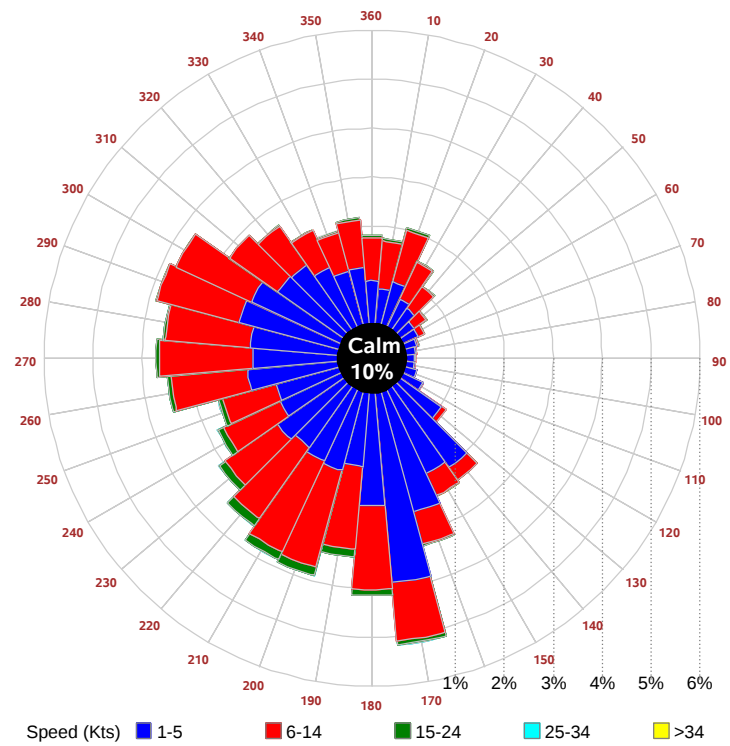
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

