

MEADOWS FLD, CA

Latitude = 35.43 N

Longitude = 119.06 W

Period of Record = 1988 To 2017

Station ID = ICAO_KBFL

Elevation = 507 Feet

Average Pressure = 29.46 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	109	72	64	12.7	NW
0.4% Occurrence	103	70	60	11.3	WNW
1.0% Occurrence	100	69	58	10.8	WNW
2.0% Occurrence	99	69	58	10.7	WNW
Mean Daily Range	23	-	-	-	E
97.5% Occurrence	38	36	28	3.6	E
99.0% Occurrence	36	35	27	3.5	E
99.6% Occurrence	32	31	23	3.5	E
Median of Extreme Lows	29	28	19	3.2	E

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	75	99	92	10.4	WNW
0.4% Occurrence	74	98	87	10	WNW
1.0% Occurrence	72	96	80	9.5	WNW
2.0% Occurrence	70	93	73	8.9	WNW

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	99	88	0.65	7.6	WNW
0.4% Occurrence	92	89	0.61	7.6	WNW
1.0% Occurrence	87	84	0.57	6.6	WNW
2.0% Occurrence	81	84	0.54	6.8	WNW

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	547	1922	75	695

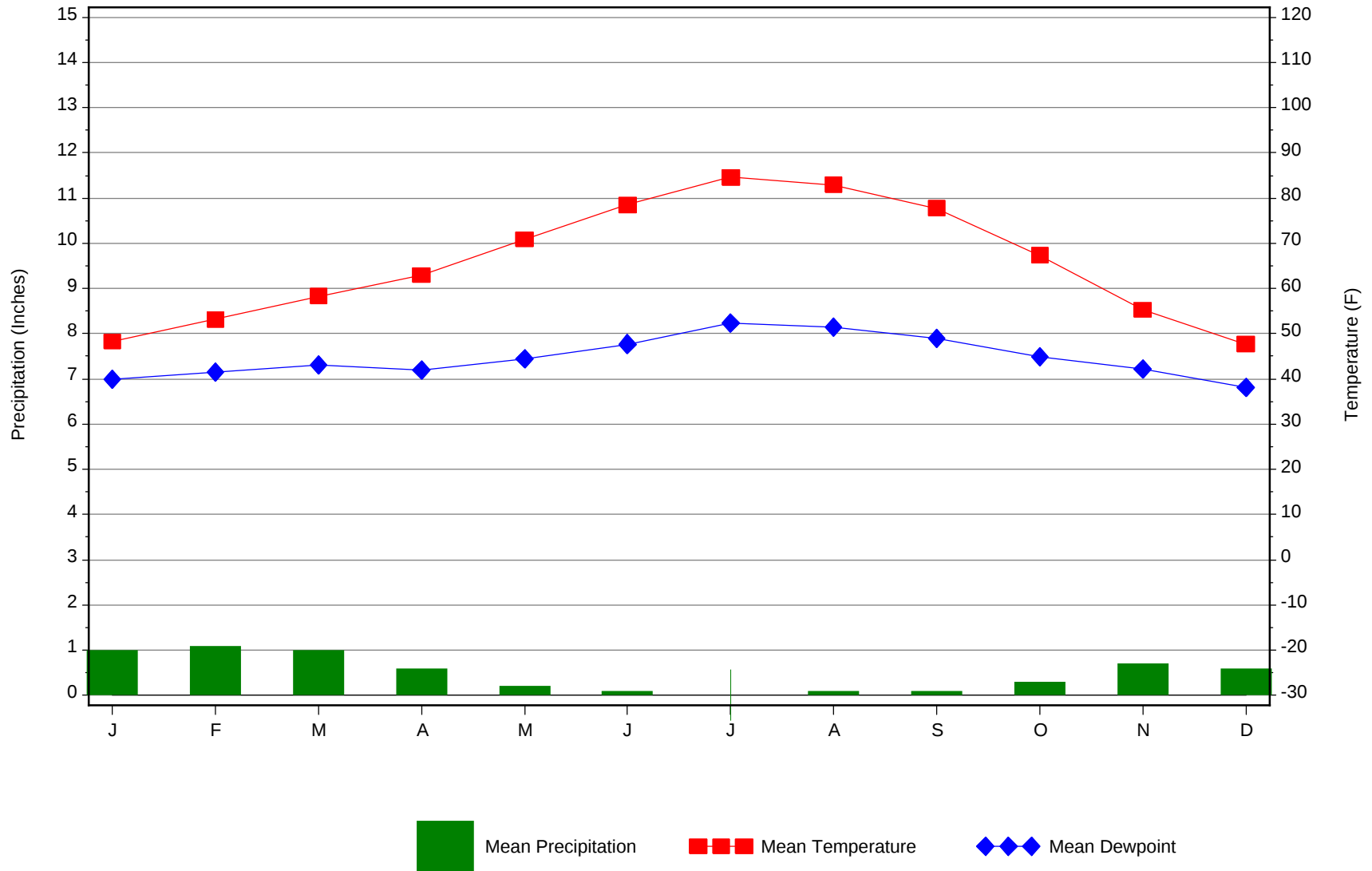
Other Site Data

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	1.3	85	0.1 + 2.5
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 (#)
68.2	N/A	N/A	7

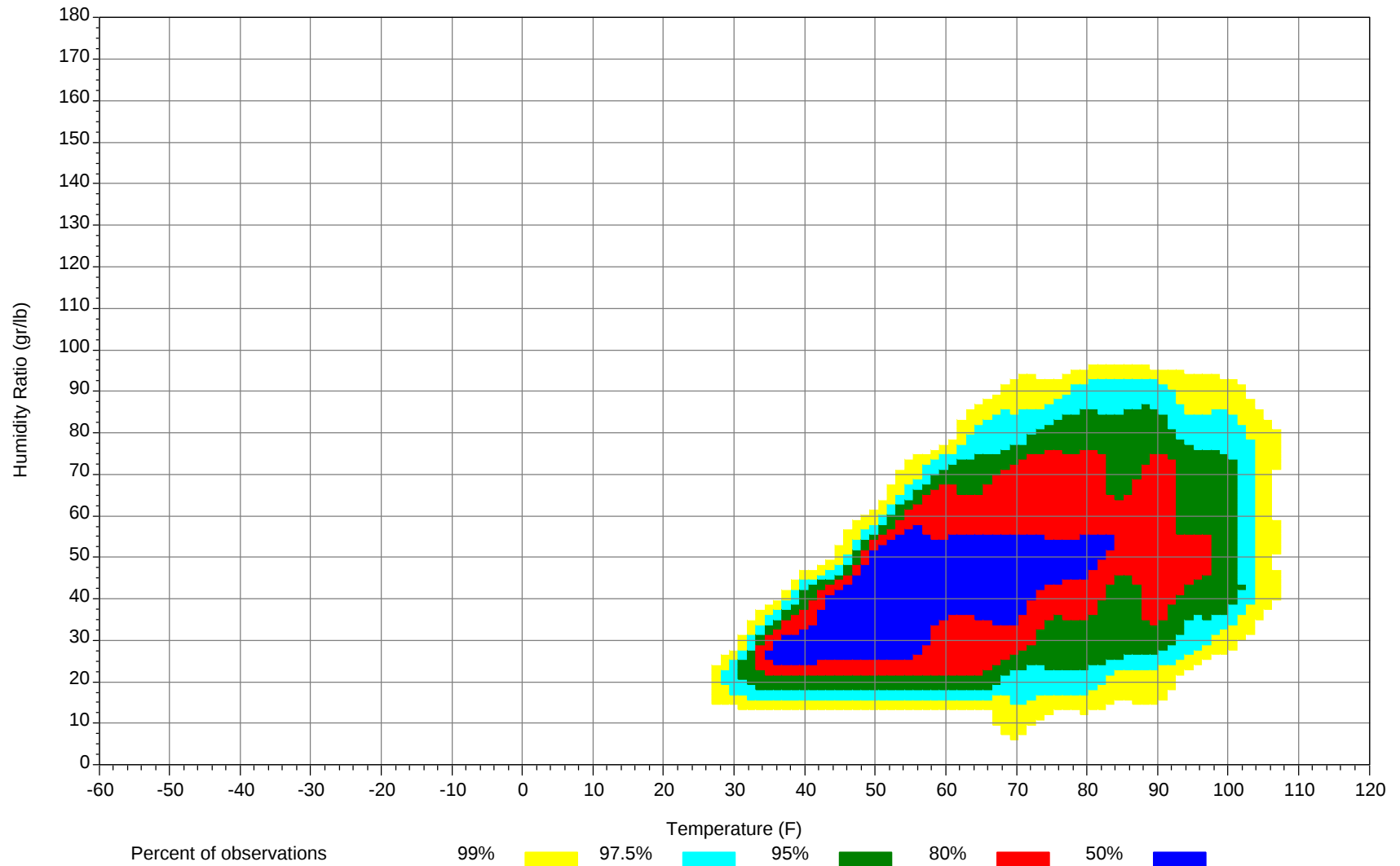
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



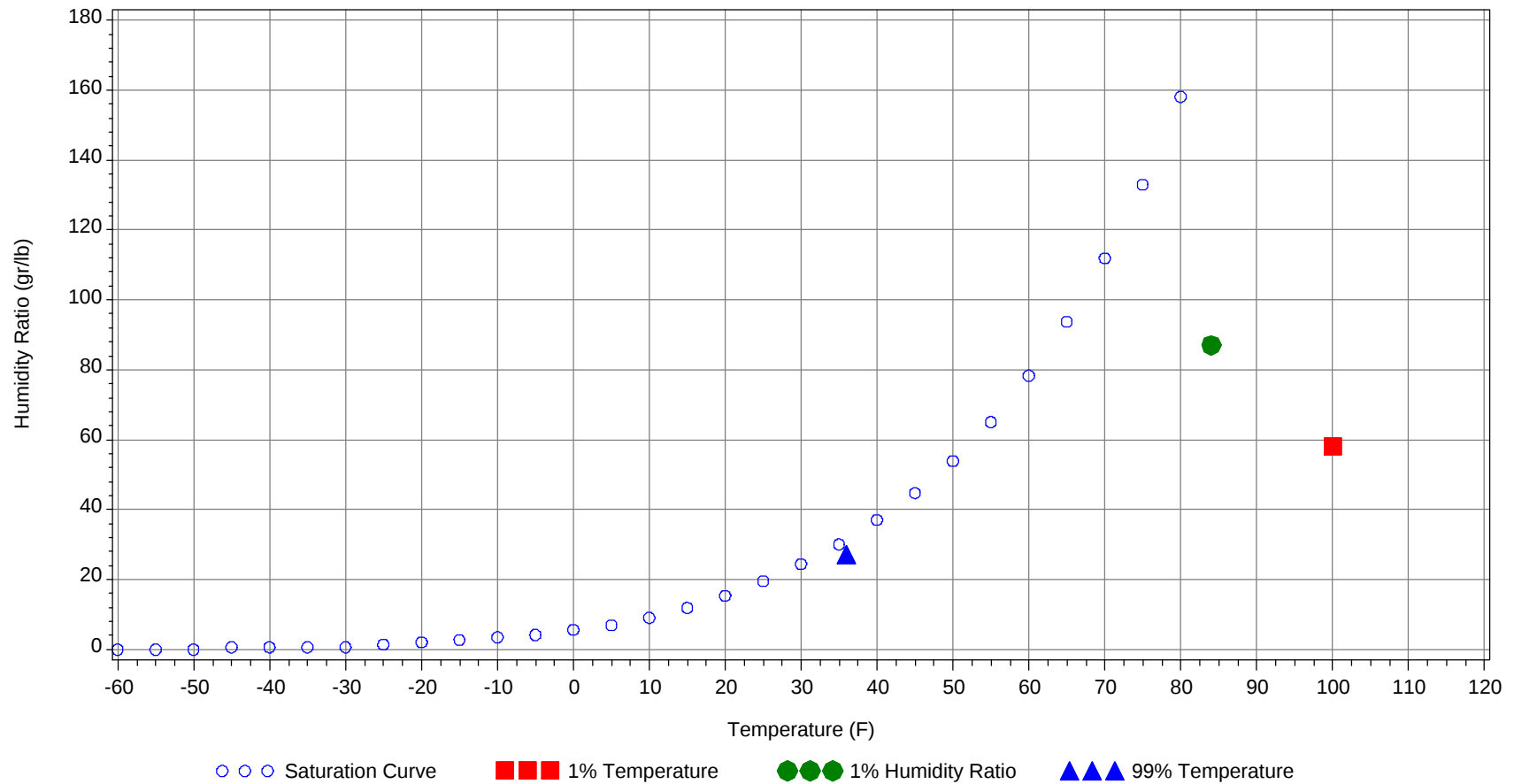
Average Annual Climate



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	100.0		69		58.0	33.2
99.0% Dry Bulb	36.0				27.0	12.6
1.0% Humidity Ratio	87.0	84.0	69.7	62.7		33.9

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)
110/114															
105/109															
100/104															
95/ 99															
90/ 94												1	0	1	61.7
85/ 89		0		0	59		0		0	61.5		2	0	2	61.2
80/ 84		0		0	55.8		1	0	1	56.6		11	3	14	60.4
75/ 79		1		1	53.6		6	1	7	56.9		24	8	32	58.3
70/ 74	0	5	1	6	53	0	17	4	21	55.7	0	44	18	62	56.5
65/ 69	0	10	2	12	53.4	1	25	9	35	54.5	2	39	24	65	54.8
60/ 64	2	35	10	47	52.2	5	53	29	87	52.3	16	58	56	130	52.8
55/ 59	10	54	32	96	50	17	56	52	125	50.2	50	40	60	150	50.5
50/ 54	30	63	60	153	47.5	53	45	65	163	47.6	82	22	49	153	47.7
45/ 49	67	51	80	198	43.8	80	18	47	145	43.7	68	7	25	100	43.6
40/ 44	61	20	40	121	40.3	40	3	12	55	39.8	21	0	4	25	39.8
35/ 39	58	8	20	86	36.1	26	1	4	31	35.7	9		1	10	36.2
30/ 34	18	2	4	24	31.2	3	0	1	4	31.2	0			0	32.1
25/ 29	2	0	0	2	25.3	1		0	1	26.2					
20/ 24															
15/ 19															

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)
110/114												0		0	73.5
105/109							0	0	0	73.4		2	1	3	70.5
100/104							2	1	3	69.2		13	6	19	69.4
95/ 99		1	0	1	65.1		9	4	13	66.6		28	14	42	67
90/ 94		7	2	9	62.6	0	25	11	36	64.2	1	50	28	79	65.3
85/ 89		12	4	16	61.5	0	28	14	42	62.6	4	40	30	74	63.8
80/ 84	0	25	11	36	60	3	47	31	81	60.9	16	48	48	112	62.1
75/ 79	1	35	18	54	58	11	46	41	98	58.8	34	31	45	110	60.1
70/ 74	6	48	35	89	56	30	42	49	121	56.7	63	19	38	120	58
65/ 69	13	34	34	81	54.1	38	23	35	96	54.9	50	6	16	72	56
60/ 64	40	42	57	139	52	68	19	37	124	52.8	48	3	11	62	53.8
55/ 59	61	24	41	126	49.6	58	6	18	82	50.4	18	0	3	21	50.9
50/ 54	68	10	27	105	47	32	1	6	39	47.5	5		0	5	47.8
45/ 49	41	2	11	54	43.3	7		0	7	43.9	1		0	1	43.1
40/ 44	7	0	2	9	39.6	0		0	0	39.9					
35/ 39	3		0	3	36	0			0	36.7					
30/ 34	0			0	33.5										
25/ 29															
20/ 24															
15/ 19															

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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)
110/114		0	0	0	72.4		0		0	73.5		0	0	0	75
105/109		7	3	10	71.5		5	1	6	72.1		1	0	1	73.6
100/104		32	15	47	70		23	8	31	69.4		8	1	9	68.9
95/ 99	0	59	32	91	68.6	0	54	25	79	67.9		31	9	40	67.3
90/ 94	4	69	48	121	67.2	2	65	40	107	66.7	0	52	21	73	65.8
85/ 89	12	37	39	88	65.7	5	41	39	85	65.4	1	38	24	63	64.6
80/ 84	46	31	59	136	64.1	30	39	66	135	63.7	11	48	54	113	62.9
75/ 79	69	10	36	115	62.1	67	16	44	127	61.7	34	34	54	122	60.7
70/ 74	75	3	14	92	60	85	5	19	109	59.8	70	21	46	137	58.6
65/ 69	28	0	2	30	58	38	0	4	42	58	51	6	20	77	56.5
60/ 64	13		0	13	56.1	20		1	21	56.3	54	2	10	66	54.2
55/ 59	1			1	53.5	2			2	53.1	17	0	1	18	51.3
50/ 54											2			2	48.6
45/ 49															
40/ 44															
35/ 39															
30/ 34															
25/ 29															
20/ 24															
15/ 19															

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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)
110/114															
105/109															
100/104		0		0	69.1										
95/ 99		3	0	3	66.4										
90/ 94		14	2	16	65		0		0	61.2					
85/ 89	0	21	4	25	63		0		0	59.4					
80/ 84	1	42	13	56	61.3		4	0	4	60.4					
75/ 79	3	48	28	79	59.6	0	14	1	15	58.3		0		0	53.1
70/ 74	14	53	55	122	57.4	0	31	6	37	56.9	0	5	0	5	54.6
65/ 69	27	29	49	105	55.3	1	34	14	49	54.8	0	12	1	13	52.8
60/ 64	76	27	59	162	53.3	9	58	43	110	52.9	2	36	11	49	51.6
55/ 59	74	8	25	107	50.1	33	52	62	147	50.3	10	55	26	91	49.6
50/ 54	39	2	12	53	46.7	71	33	62	166	47.5	28	62	55	145	46.9
45/ 49	13	0	2	15	42.3	73	11	37	121	43.4	54	48	76	178	43.1
40/ 44	1		0	1	38.7	31	2	11	44	39.2	54	19	45	118	39.5
35/ 39	0			0	35.5	18	0	3	21	35.5	69	9	27	105	35.5
30/ 34	0			0	34	3	0	0	3	30.7	25	2	5	32	31
25/ 29						0			0	28.5	3	0	1	4	26.6
20/ 24											1	0		1	21.6
15/ 19											0			0	19

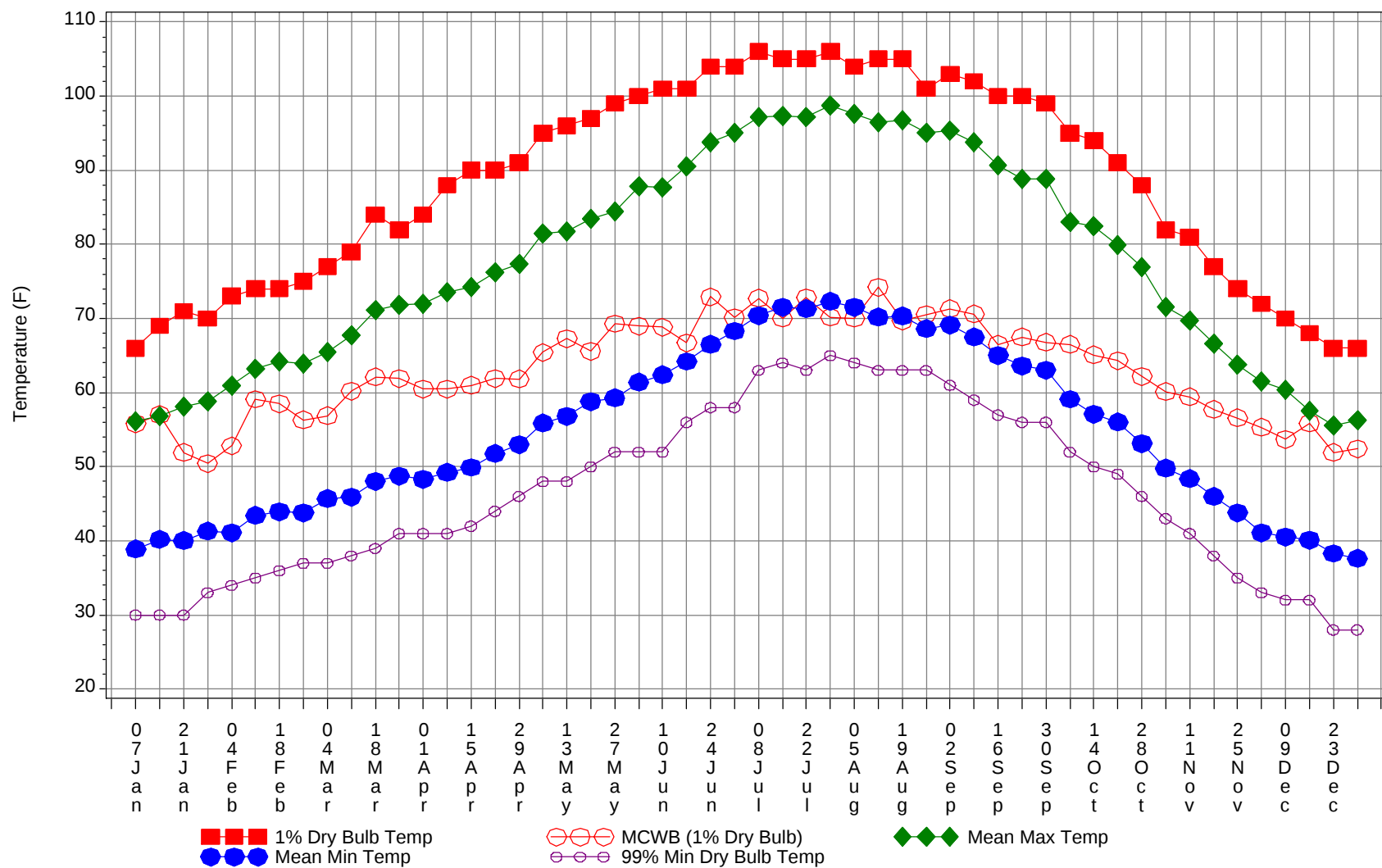
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Dry-Bulb Temperature Hours For An Average Year

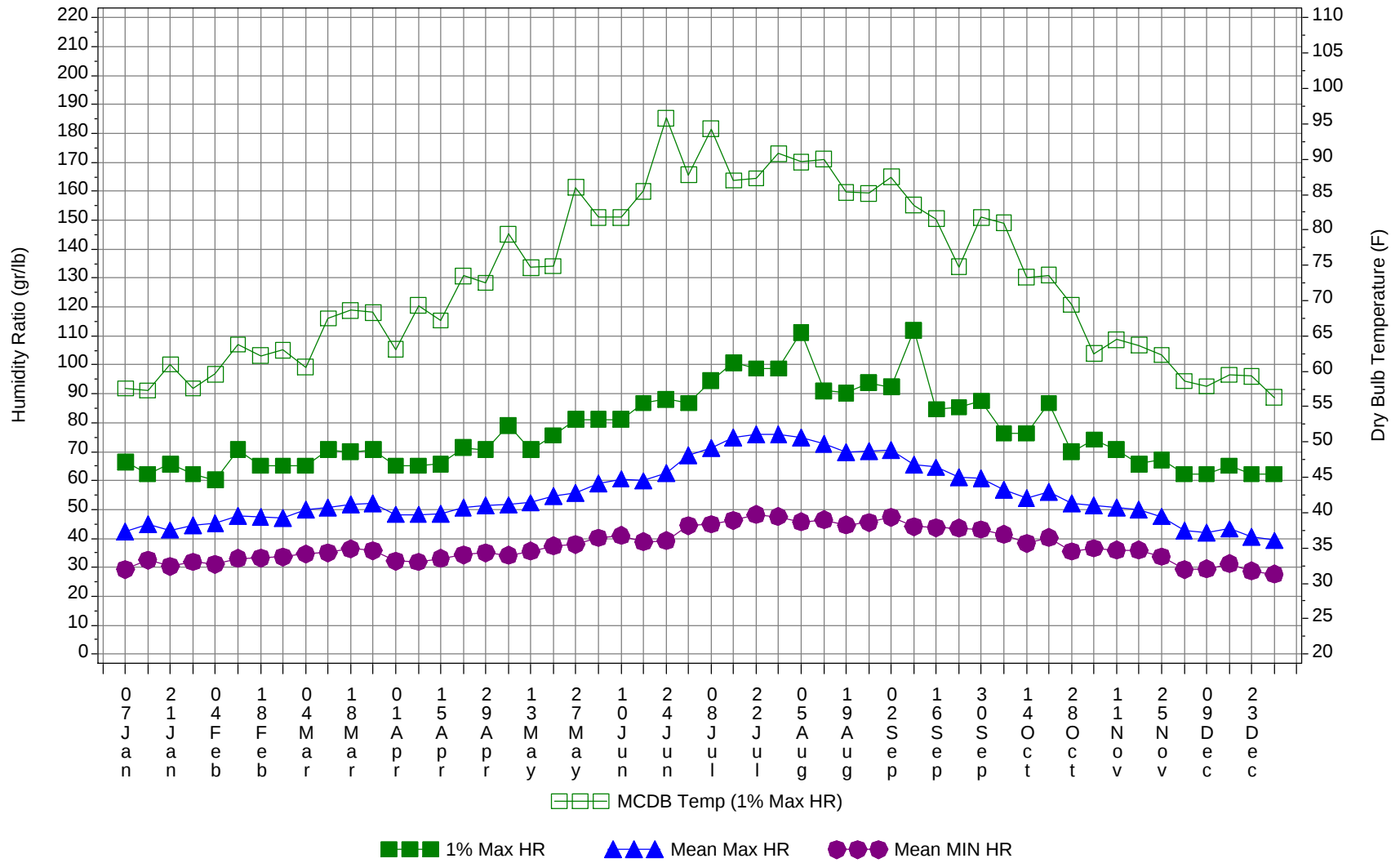
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
110/114		0	0	0	73.3
105/109		15	5	20	71.6
100/104		79	31	110	69.6
95/ 99	0	185	84	269	67.8
90/ 94	7	282	152	441	66.1
85/ 89	23	219	154	396	64.4
80/ 84	107	295	284	686	62.6
75/ 79	219	264	274	757	60.3
70/ 74	344	292	286	922	57.8
65/ 69	248	219	209	676	55.4
60/ 64	351	333	322	1006	52.9
55/ 59	352	295	322	969	50.2
50/ 54	411	237	338	986	47.3
45/ 49	403	137	279	819	43.5
40/ 44	216	44	114	374	39.8
35/ 39	182	19	55	256	35.8
30/ 34	50	4	10	64	31.1
25/ 29	6	0	1	7	26.2
20/ 24	1	0		1	21.6
15/ 19	0			0	19

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



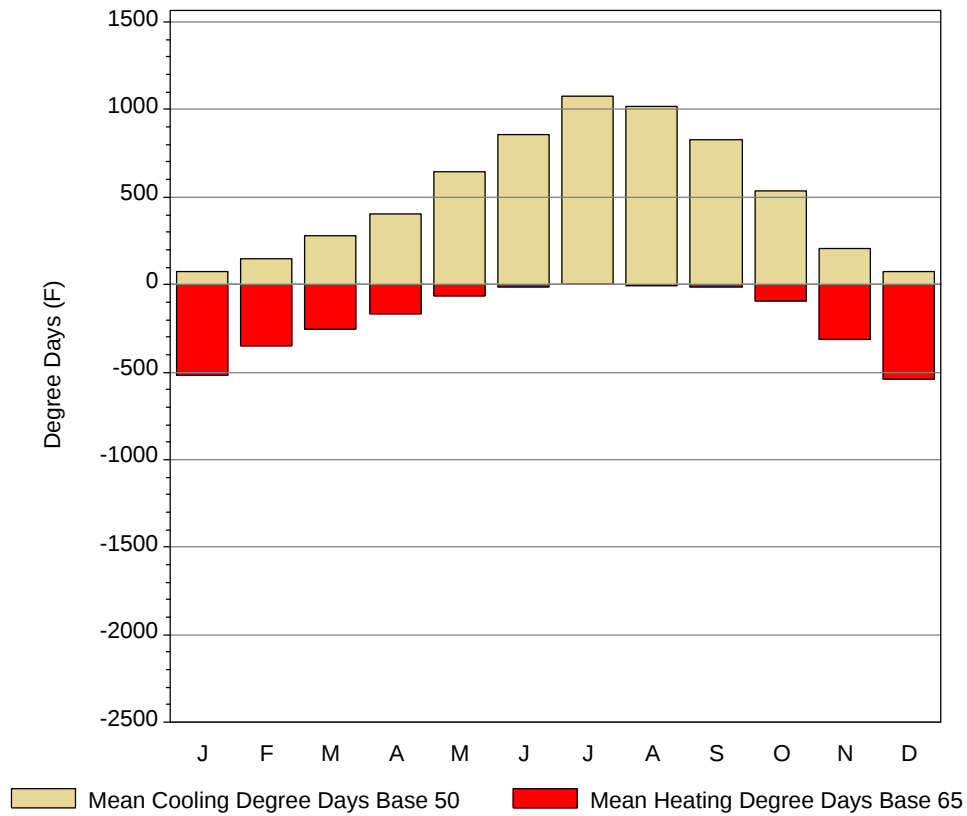
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

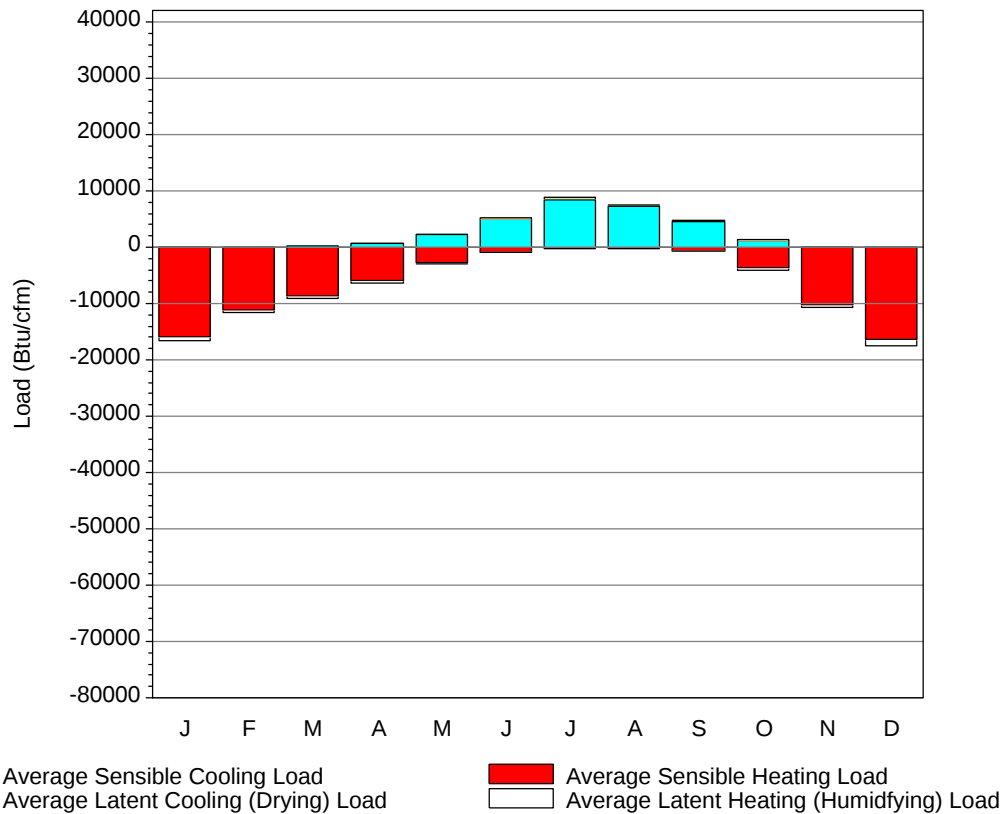
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	66	55.8	56.1	38.9	30	66.5	57.6	42.3	29.3
14-Jan	69	57	56.8	40.2	30	62.3	57.3	44.9	32.6
21-Jan	71	51.9	58.1	40	30	65.8	61	42.9	30.3
28-Jan	70	50.4	58.8	41.3	33	62.3	57.6	44.6	31.9
4-Feb	73	52.8	61	41.1	34	60.2	59.6	45.4	31
11-Feb	74	59.1	63.2	43.4	35	70.7	63.8	47.8	33
18-Feb	74	58.5	64.2	43.9	36	65.1	62.2	47.5	33.2
25-Feb	75	56.3	63.9	43.8	37	65.1	63	47.1	33.6
4-Mar	77	56.9	65.5	45.7	37	65.1	60.6	50	34.6
11-Mar	79	60.2	67.8	45.9	38	70.7	67.5	50.7	35
18-Mar	84	62.1	71.1	48	39	70	68.6	51.8	36.4
25-Mar	82	61.9	71.8	48.7	41	70.7	68.3	52.1	35.8
1-Apr	84	60.5	72	48.3	41	65.1	63.1	48.3	32.2
8-Apr	88	60.5	73.6	49.2	41	65.1	69.3	48.3	31.9
15-Apr	90	61	74.2	49.9	42	65.8	67.2	48.6	33
22-Apr	90	61.9	76.2	51.8	44	71.4	73.5	50.7	34.3
29-Apr	91	61.8	77.4	53	46	70.7	72.5	51.5	35.1
6-May	95	65.4	81.5	55.9	48	79.1	79.4	51.6	34.1
13-May	96	67.3	81.8	56.8	48	70.7	74.7	52.3	35.6
20-May	97	65.6	83.5	58.8	50	75.6	74.9	54.6	37.4
27-May	99	69.3	84.5	59.3	52	81.2	86	55.8	37.9
4-Jun	100	69	87.8	61.4	52	81.2	81.8	58.9	40.2
10-Jun	101	68.8	87.7	62.4	52	81.2	81.8	60.6	41
17-Jun	101	66.7	90.5	64.2	56	86.8	85.5	59.9	38.9
24-Jun	104	72.9	93.8	66.5	58	88.2	95.8	62.5	39.2
1-Jul	104	70.1	95	68.3	58	86.8	87.8	68.7	44.4
8-Jul	106	72.7	97.2	70.4	63	94.5	94.3	71.2	44.9
15-Jul	105	70	97.3	71.5	64	100.8	87	74.9	46.3
22-Jul	105	72.8	97.2	71.3	63	98.7	87.3	76.1	48.2
29-Jul	106	70.2	98.7	72.3	65	98.7	90.8	76	47.6
5-Aug	104	70	97.6	71.5	64	111.3	89.6	74.8	45.7
12-Aug	105	74.2	96.4	70.2	63	91	90	72.6	46.5
19-Aug	105	69.7	96.7	70.3	63	90.3	85.3	69.7	44.6
26-Aug	101	70.5	95.1	68.6	63	93.8	85.2	70.3	45.5
2-Sep	103	71.3	95.3	69.1	61	92.4	87.5	70.6	47.3
9-Sep	102	70.6	93.8	67.5	59	112	83.5	65.5	44.1
16-Sep	100	66.5	90.6	65	57	84.7	81.6	64.6	43.8
23-Sep	100	67.5	88.8	63.6	56	85.4	74.8	61.2	43.5
30-Sep	99	66.8	88.8	63	56	87.5	81.8	60.9	43.1
7-Oct	95	66.5	83	59.1	52	76.3	81	56.9	41.4
14-Oct	94	65.1	82.4	57.1	50	76.3	73.3	54	38.3
21-Oct	91	64.3	79.9	56	49	86.8	73.6	56.2	40.3
28-Oct	88	62.2	77	53.1	46	70	69.4	52.1	35.5
4-Nov	82	60.1	71.6	49.8	43	74.2	62.5	51.5	36.6
11-Nov	81	59.4	69.7	48.4	41	70.7	64.5	50.7	36
18-Nov	77	57.7	66.6	46	38	65.8	63.7	50.1	35.9
25-Nov	74	56.6	63.7	43.8	35	67.2	62.3	47.6	33.7
2-Dec	72	55.3	61.5	41.1	33	62.3	58.6	42.6	29.3
9-Dec	70	53.7	60.4	40.5	32	62.3	57.9	42	29.5
16-Dec	68	55.9	57.5	40.1	32	65.1	59.5	43.3	31.3
23-Dec	66	51.9	55.6	38.3	28	62.3	59.3	40.7	28.8
31-Dec	66	52.4	56.3	37.6	28	62.3	56.3	39.3	27.7

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	77.5	3	521.1
FEB	145.1	12.1	347
MAR	282.2	49.8	258
APR	401.7	107.5	166.8
MAY	646.4	247.3	66.9
JUN	854.6	420.7	16.1
JUL	1073.2	609.5	1.3
AUG	1019.1	556.1	2.1
SEP	831.1	393.8	12.7
OCT	538.5	165.2	93.9
NOV	203	24.3	314.2
DEC	74.9	2.2	539.9
ANN	6147.3	2591.5	2340

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	3	-15873	4	-691
FEB	19	-11039	0	-530
MAR	204	-8622	0	-388
APR	751	-5845	7	-515
MAY	2385	-2683	18	-307
JUN	5127	-797	65	-119
JUL	8462	-111	466	-45
AUG	7328	-169	259	-51
SEP	4490	-699	228	-63
OCT	1266	-3675	25	-396
NOV	60	-10203	4	-553
DEC	1	-16366	0	-1118
ANN	30096	-76082	1076	-4776

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	BAKERSFIELD, CA 23155	Window:	1.000
Lat, Lon, Elev	35.42N 119.05W 492ft	Overhang:	0.404
Press, Stn_Type	14.5psia Secondary	Vert Gap:	0.289

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	730	1050	1470	1950	2340	2550	2530	2290	1880	1400	910	670	1650
	Std.Dev.	83	97	145	150	112	73	67	82	102	67	88	86	44
	Minimum	560	810	1140	1530	2110	2400	2360	2020	1610	1210	750	550	1520
	Maximum	920	1240	1740	2150	2510	2660	2650	2390	2020	1510	1030	870	1710
	Diffuse	400	490	600	650	640	590	550	520	470	430	390	360	510
Clear Day	Global	1030	1370	1850	2310	2590	2700	2630	2380	1990	1510	1100	930	1870
NORTH	Global	240	300	380	460	590	690	650	490	390	320	260	220	420
	Diffuse	240	300	380	450	490	510	490	450	380	320	260	220	380
Clear Day	Global	230	290	360	440	600	700	650	480	380	310	240	210	410
EAST	Global	430	640	870	1110	1300	1390	1400	1310	1120	870	560	410	950
	Diffuse	290	370	480	560	600	610	590	560	490	420	320	260	460
Clear Day	Global	700	890	1150	1340	1450	1480	1460	1370	1200	960	730	640	1110
SOUTH	Global	960	1190	1220	1090	880	760	810	1050	1360	1500	1230	950	1080
	Diffuse	400	490	550	560	530	510	510	510	520	510	440	380	490
Clear Day	Global	1780	1830	1690	1290	940	780	830	1120	1520	1780	1790	1730	1420
WEST	Global	470	660	890	1130	1300	1400	1400	1310	1130	870	580	430	970
	Diffuse	290	380	490	570	610	610	590	560	500	420	320	270	470
Clear Day	Global	700	890	1150	1340	1450	1480	1460	1370	1200	960	730	640	1110

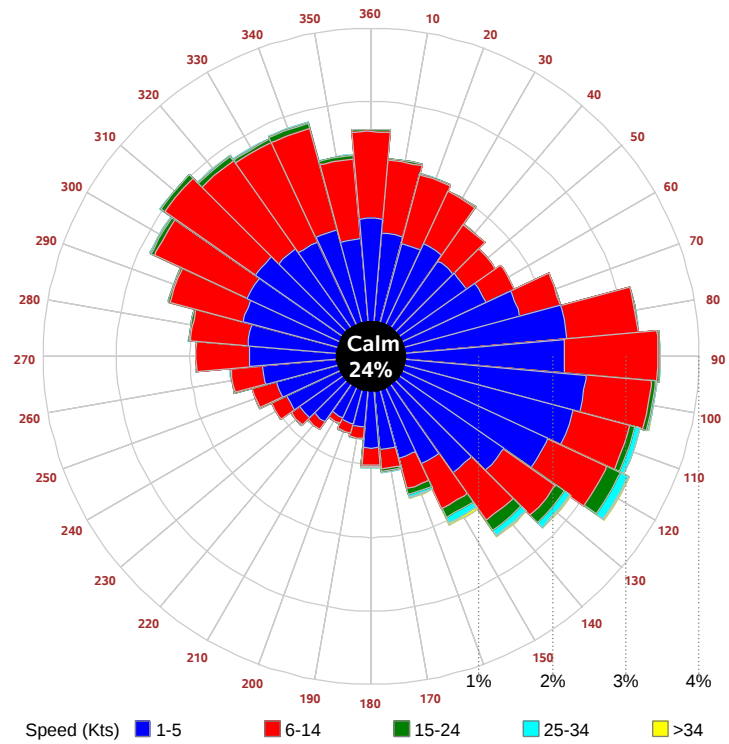
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

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	490	730	1050	1420	1720	1880	1870	1680	1360	990	620	440	1190
NORTH	Unshaded	160	210	270	310	370	430	400	320	270	220	180	150	270
	Shaded	150	190	250	290	350	390	370	300	250	210	160	140	260
EAST	Unshaded	300	440	610	790	930	990	1000	930	790	610	390	280	670
	Shaded	270	410	560	710	830	880	890	840	720	560	360	260	610
SOUTH	Unshaded	720	860	830	680	500	420	450	620	880	1070	910	710	720
	Shaded	700	810	690	480	350	340	330	390	660	960	880	690	610
WEST	Unshaded	330	460	630	810	930	1000	1000	930	800	620	410	300	680
	Shaded	300	420	570	730	830	890	890	840	730	570	370	270	620

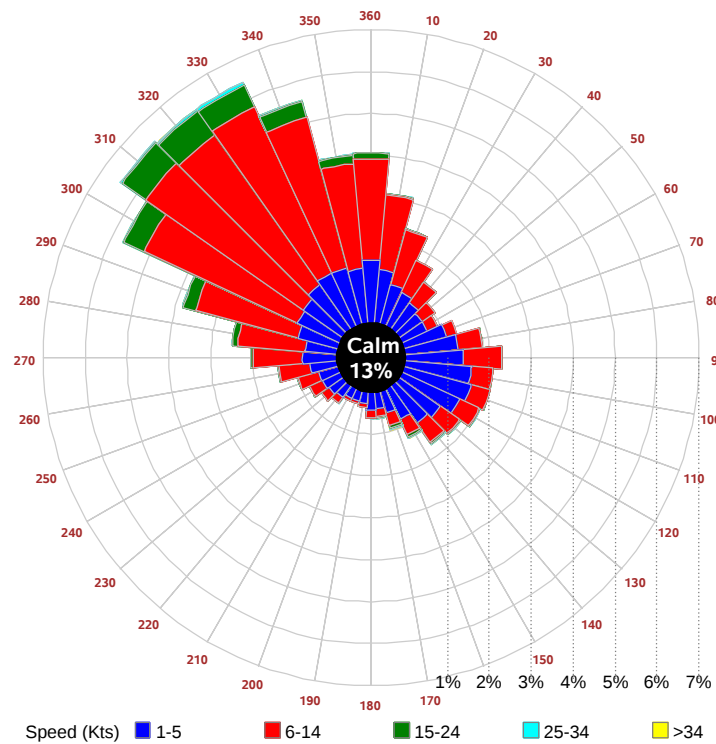
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	45	79	88	67	26	51	90	107	100	70	
	M.Cloudy	29	54	61	47	18	37	70	88	82	54	
NORTH	M.Clear	11	15	16	14	8	21	16	16	16	14	
	M.Cloudy	11	17	18	15	7	17	17	18	18	15	
EAST	M.Clear	75	56	16	14	8	82	73	28	16	14	
	M.Cloudy	36	37	18	15	7	50	56	27	18	15	
SOUTH	M.Clear	40	70	78	60	23	12	27	40	35	14	
	M.Cloudy	22	44	50	39	13	12	25	36	32	15	
WEST	M.Clear	11	15	27	70	61	12	16	16	56	84	
	M.Cloudy	11	17	24	43	28	12	17	18	48	59	
M.Clear	(% hrs)	41	40	39	39	46	80	80	81	82	82	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	33	74	93	84	49	20	47	51	31	3	
	M.Cloudy	21	50	67	63	33	12	29	32	20	2	
NORTH	M.Clear	9	15	16	16	12	7	12	12	9	2	
	M.Cloudy	8	16	18	17	12	5	11	12	8	1	
EAST	M.Clear	71	71	26	16	12	42	37	12	9	2	
	M.Cloudy	30	43	24	17	12	13	19	12	8	1	
SOUTH	M.Clear	22	56	72	65	35	39	77	83	56	5	
	M.Cloudy	13	36	52	47	23	13	31	35	23	2	
WEST	M.Clear	9	15	16	58	79	7	12	25	47	7	
	M.Cloudy	8	16	18	43	43	5	11	16	20	3	
M.Clear	(% hrs)	79	81	81	80	81	30	31	34	35	38	

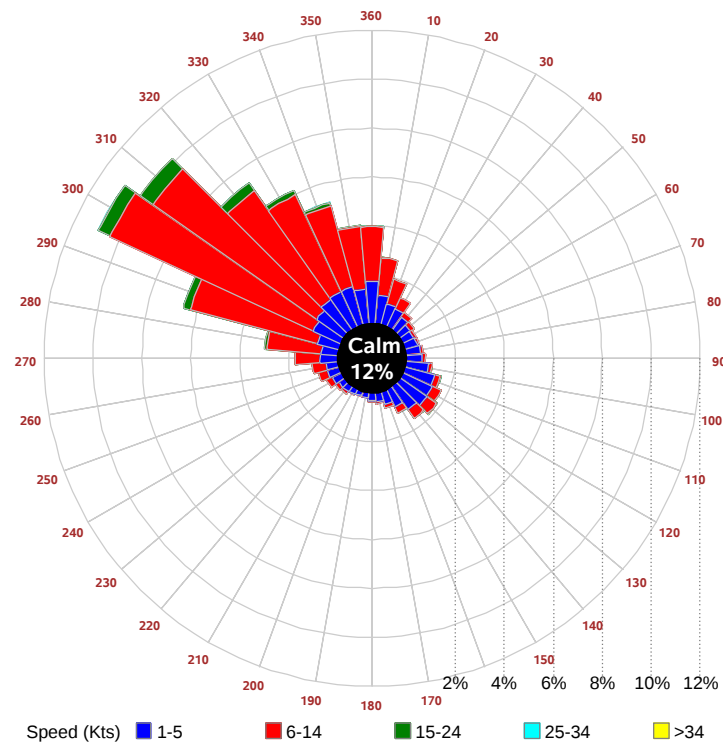
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

