

LA JUNTA CO

Latitude = 38.05 N

Longitude = 103.50 W

Period of Record = 1973 to 1996

WMO No. 724635

Elevation = 4239 feet

Average Pressure = 25.68 inches Hg

Design Criteria Data

	Design Value	Mean Coincident (Average) Values			
		Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Dry Bulb Temperature (T)	(°F)				
Median of Extreme Highs	105	65	43	11.0	W
0.4% Occurrence	101	65	49	11.0	S
1.0% Occurrence	98	65	52	10.5	S
2.0% Occurrence	95	64	54	10.5	E
Mean Daily Range	28	-	-	-	-
97.5% Occurrence	11	10	8	8.2	W
99.0% Occurrence	4	3	6	7.7	W
99.6% Occurrence	-2	-3	4	7.9	W
Median of Extreme Lows	-11	-12	2	8.9	W
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T_{wb})	(°F)				
Median of Extreme Highs	71	88	100	10.1	E
0.4% Occurrence	69	88	89	10.3	E
1.0% Occurrence	68	88	84	10.2	E
2.0% Occurrence	67	87	80	10.2	E
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)	(gr/lb)				
Median of Extreme Highs	116	76	0.67	9.0	ESE
0.4% Occurrence	104	73	0.60	9.1	E
1.0% Occurrence	97	72	0.56	9.1	E
2.0% Occurrence	93	73	0.54	9.0	E
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		292	1209	1	189

Other Site Data

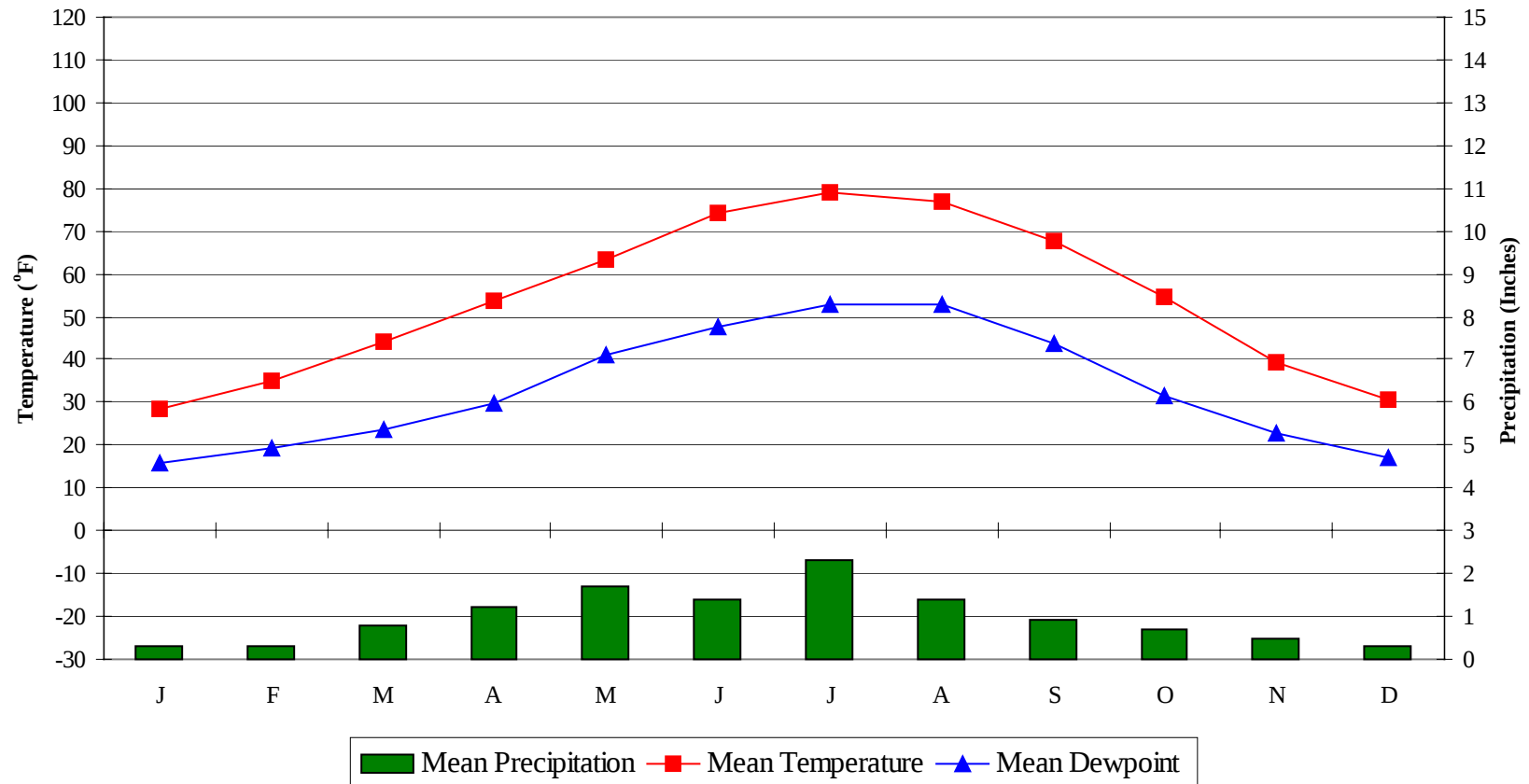
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
6	3.0	90	0.1 + 1.4
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
56.3	N/A	N/A	106

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

LA JUNTA CO

WMO No. 724635

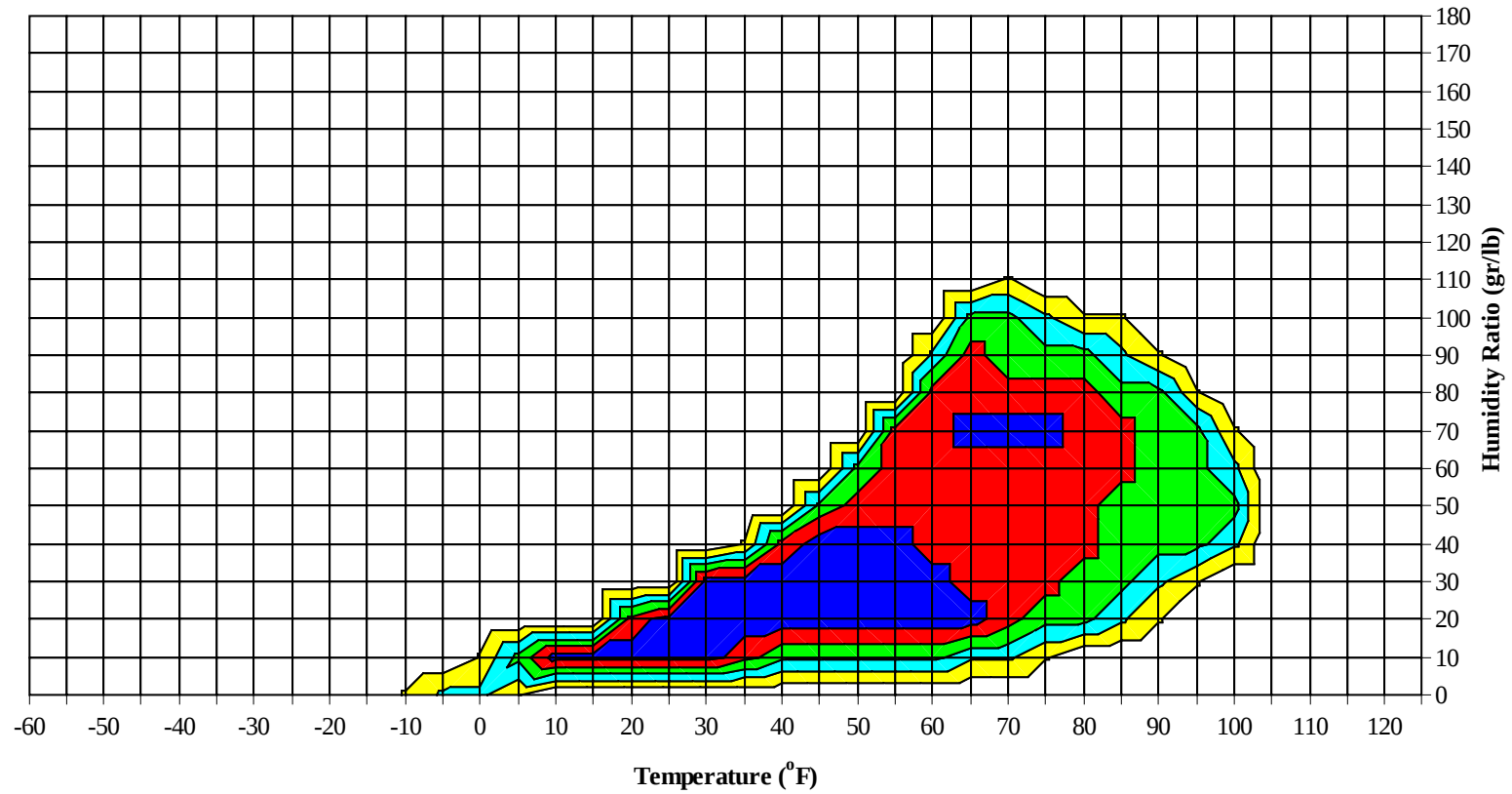
Average Annual Climate



LA JUNTA CO

WMO No. 724635

Long Term Psychrometric Summary

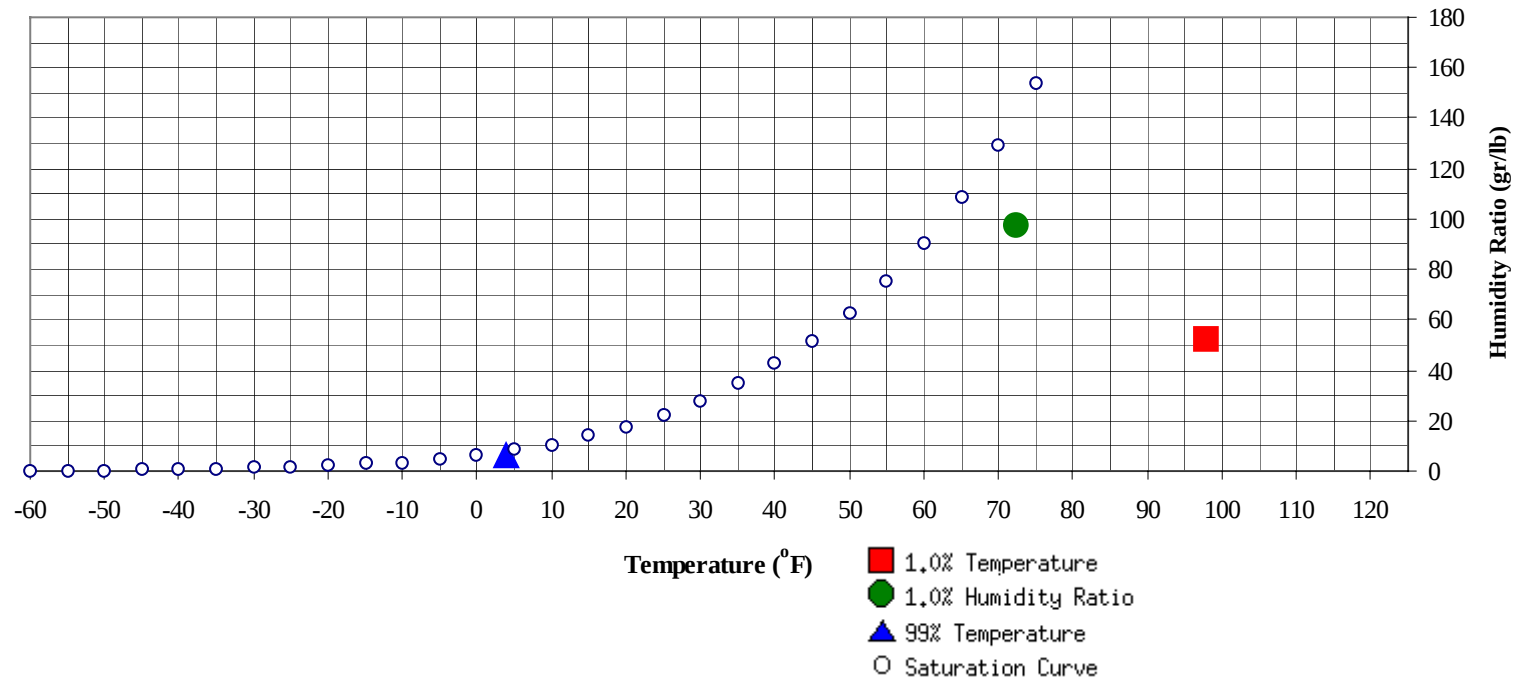


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

LA JUNTA CO

WMO No. 724635

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
99% Dry Bulb	4	6.2	1.9		97.3	72.3	65.2	62.1	32.5

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	98	52.4	64.7	31.8

LA JUNTA CO

WMO No. 724635

Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	January					February					March				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89												1		1	53.0
80 / 84							0		0	50.0		3	0	3	52.5
75 / 79		0		0	48.1		2		2	49.8		8	2	10	49.7
70 / 74		1	0	1	46.3		6	1	7	47.8	0	20	4	24	47.7
65 / 69		4	0	4	44.6		11	2	13	45.5	0	24	9	33	46.2
60 / 64		8	1	9	43.0	0	17	5	22	43.4	2	27	16	45	44.2
55 / 59		12	2	14	40.7	1	20	9	30	41.6	4	30	25	60	42.0
50 / 54	0	21	6	27	38.9	1	23	15	39	39.3	9	32	30	71	40.1
45 / 49	1	26	11	38	36.3	3	26	22	51	36.7	19	27	35	80	37.9
40 / 44	4	30	22	56	34.0	10	27	28	65	34.2	33	25	38	96	35.6
35 / 39	14	28	35	77	31.2	26	25	35	87	31.4	52	21	37	110	32.5
30 / 34	32	31	42	105	28.1	45	21	37	104	28.4	56	16	29	101	29.3
25 / 29	48	27	39	114	24.4	54	15	28	96	24.7	39	7	14	60	24.7
20 / 24	48	21	31	99	20.0	38	13	16	67	20.5	19	5	5	28	20.3
15 / 19	31	14	20	64	15.6	19	8	10	37	15.8	8	2	2	12	15.5
10 / 14	26	11	17	54	10.7	10	5	7	21	11.3	3	1	2	6	10.4
5 / 9	20	8	13	41	6.3	5	2	4	11	6.2	2	0	1	3	6.6
0 / 4	12	3	7	22	1.6	4	2	2	8	1.4	1	0		1	2.1
-5 / -1	7	1	3	10	-2.7	2	1	2	5	-3.2	0			0	-2.0
-10 / -6	3	1	1	5	-7.4	3	1	2	6	-7.1					
-15 / -11	2	0	0	2	-12.7	1	0	0	1	-11.7					
-20 / -16	0		0	0	-16.3	0			0	-17.1					

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.

LA JUNTA CO

WMO No. 724635

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	April					May					June				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
110 / 114												0		0	67.0
105 / 109												2	0	2	63.8
100 / 104							0		0	59.4		11	2	13	63.6
95 / 99		0		0	56.0		2	0	2	60.6		24	8	32	63.2
90 / 94		2	0	2	56.3		7	1	8	59.1	0	34	13	48	62.7
85 / 89		7	1	8	55.0	0	24	5	29	58.2	1	42	21	64	62.0
80 / 84		18	5	23	53.5	0	36	14	50	57.3	4	44	33	81	60.9
75 / 79	0	23	9	32	51.7	1	39	22	61	56.2	14	33	40	87	59.6
70 / 74	1	28	13	42	50.4	6	39	31	76	54.7	34	23	42	99	58.1
65 / 69	3	31	22	56	48.7	17	33	39	89	53.2	52	13	34	99	56.9
60 / 64	9	33	31	73	46.7	34	29	42	105	51.6	61	7	27	94	54.9
55 / 59	17	29	33	79	44.6	54	18	39	111	49.8	48	5	14	67	52.2
50 / 54	31	24	35	90	42.9	65	11	31	107	47.1	21	1	5	27	48.6
45 / 49	41	19	34	94	40.1	40	6	13	59	43.0	5	0	1	6	45.1
40 / 44	50	12	25	87	36.9	20	4	6	30	39.2	0			0	43.0
35 / 39	46	7	19	73	33.2	8	2	3	13	35.8					
30 / 34	27	6	9	42	29.8	2	0	1	3	32.2					
25 / 29	10	2	4	16	25.3	0			0	25.7					
20 / 24	3	0	1	4	20.9										
15 / 19	1		0	1	15.8										
10 / 14	0			0	13.0										
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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.

LA JUNTA CO

WMO No. 724635

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	July					August					September				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
110 / 114															
105 / 109		1		1	64.2		1	0	1	69.1					
100 / 104		21	4	25	65.2		9	1	10	65.4		1	0	1	64.5
95 / 99		44	14	58	64.9		36	8	44	64.9		8	1	9	63.2
90 / 94	0	51	23	75	65.0		48	17	66	64.7		25	5	30	61.3
85 / 89	2	49	32	83	64.5	0	49	26	75	64.3		35	11	47	60.4
80 / 84	11	39	44	93	63.5	4	44	41	89	63.2	1	40	20	61	59.3
75 / 79	31	26	43	99	62.2	18	28	48	94	62.1	3	35	30	69	58.1
70 / 74	60	12	43	115	61.1	47	19	48	114	61.0	15	33	41	88	56.6
65 / 69	75	4	32	110	60.1	75	10	37	123	59.8	30	24	38	92	54.7
60 / 64	55	1	11	67	58.1	73	3	16	92	57.8	45	16	36	98	53.2
55 / 59	14	0	2	16	54.7	26	1	3	31	54.5	57	10	27	95	50.3
50 / 54	1		0	1	50.8	4	0	1	5	50.5	45	7	17	69	46.4
45 / 49						0		0	0	44.2	26	2	7	35	42.4
40 / 44						0			0	39.0	12	2	3	17	38.1
35 / 39											4	1	1	6	34.9
30 / 34											1	0	1	2	30.6
25 / 29											0			0	24.4
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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.

LA JUNTA CO

WMO No. 724635

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	October					November					December				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94		2		2	57.8										
85 / 89		9	0	9	55.8		0		0	52.0					
80 / 84		22	3	25	54.5		2		2	51.7					
75 / 79		27	6	33	53.0		6		6	50.6		0		0	50.8
70 / 74	0	34	13	48	51.4		12	0	12	49.1		2		2	48.1
65 / 69	3	33	23	59	49.6	0	17	2	19	46.9		7	0	7	45.7
60 / 64	6	34	34	74	47.5	1	23	8	32	44.9	0	11	1	12	43.8
55 / 59	17	30	41	87	45.4	2	23	13	38	42.8	0	16	3	19	41.4
50 / 54	35	23	44	102	43.2	5	29	21	56	40.1	1	22	8	31	38.9
45 / 49	56	15	36	107	40.3	10	28	29	67	37.5	4	29	14	48	36.2
40 / 44	53	8	25	87	36.6	22	27	36	85	35.1	9	32	22	63	33.6
35 / 39	43	5	14	62	33.2	40	26	40	106	32.2	19	33	35	86	30.8
30 / 34	22	3	6	31	29.3	54	20	37	111	28.8	35	29	49	113	28.0
25 / 29	7	1	2	10	24.6	43	13	29	85	24.8	54	25	46	125	24.4
20 / 24	2	0	1	3	20.2	34	8	15	56	20.4	49	17	28	94	20.0
15 / 19	1	1	0	2	16.4	16	3	6	25	15.8	34	10	16	60	15.6
10 / 14	1		0	1	12.4	6	2	3	11	10.9	19	6	10	34	11.0
5 / 9	0			0	8.0	4	1	1	6	6.6	10	4	8	22	6.4
0 / 4						1	0	1	2	1.7	7	3	4	13	1.4
-5 / -1						0	0	0	0	-3.1	4	1	3	8	-3.0
-10 / -6						1		0	1	-7.6	2	1	1	4	-7.4
-15 / -11						0			0	-11.5	1	0	1	2	-12.3
-20 / -16											1		0	1	-16.4

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.

LA JUNTA CO

WMO No. 724635

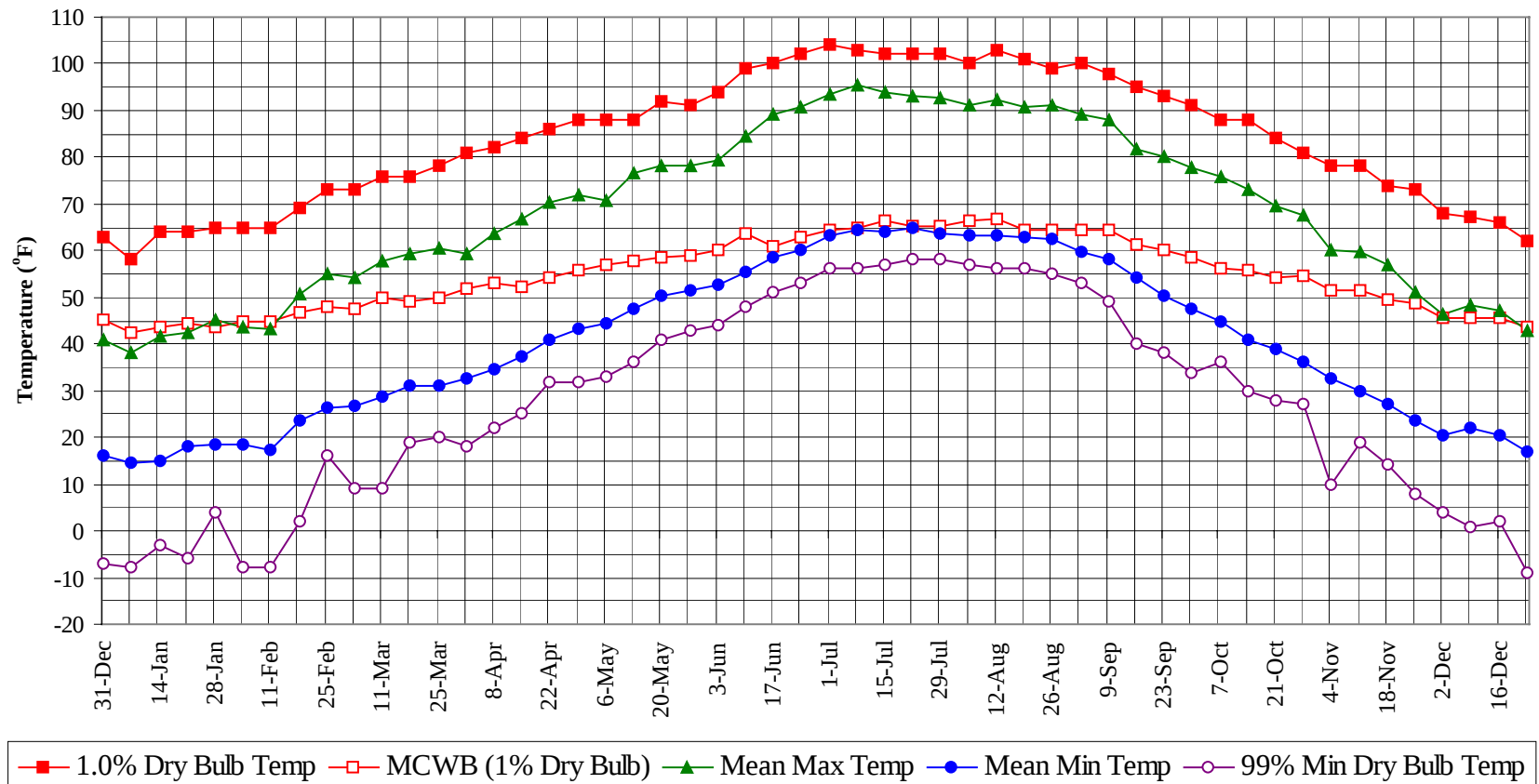
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

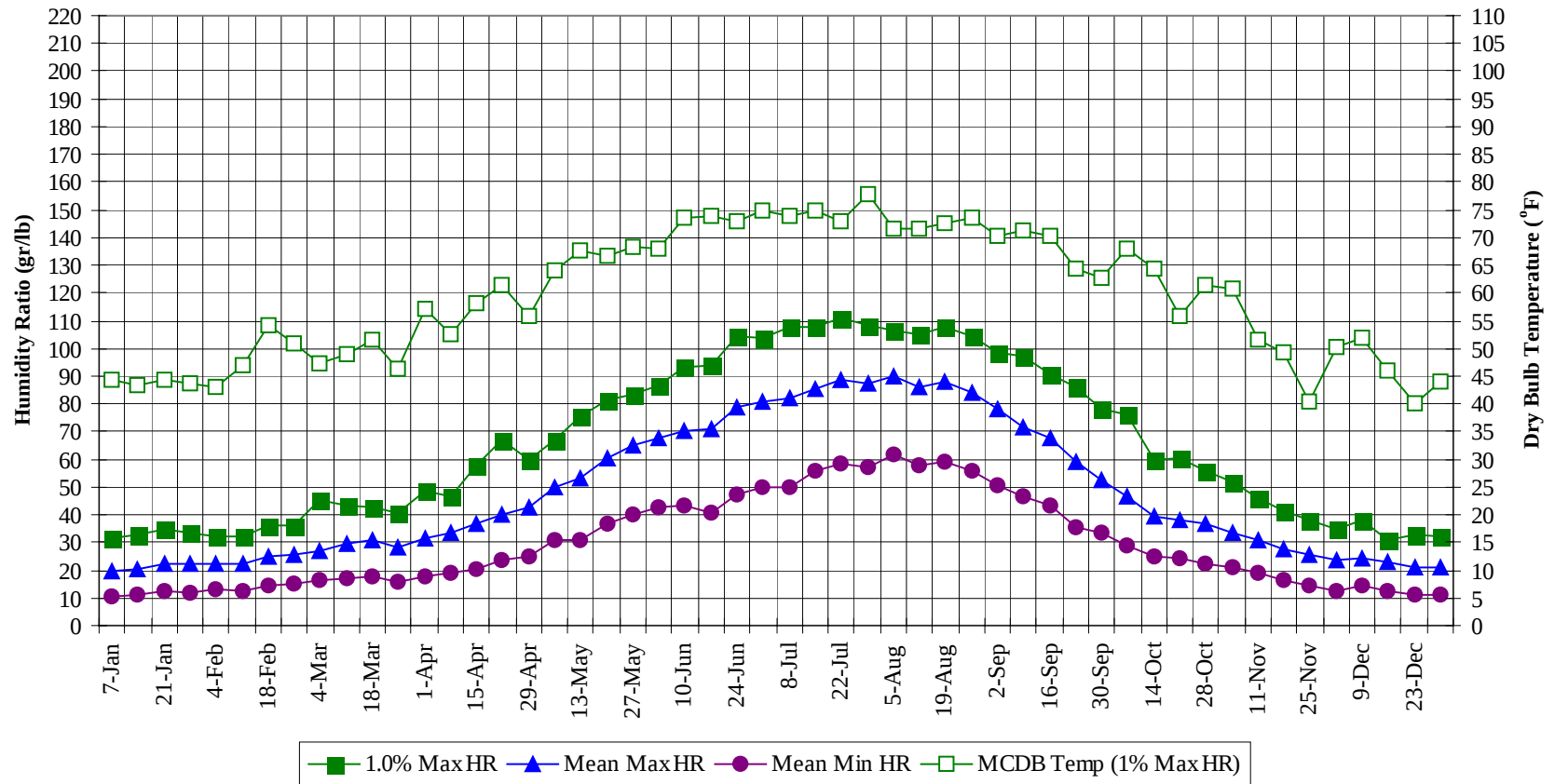
Annual Totals						
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	
	01 To 08	09 To 16	17 To 00			
110 / 114	0			0	67.0	
105 / 109	3			0	3	64.8
100 / 104	43			7	50	64.8
95 / 99	113			31	144	64.4
90 / 94	0	169	59	228	63.6	
85 / 89	3	215	94	313	62.2	
80 / 84	20	246	156	422	60.4	
75 / 79	67	227	194	488	58.5	
70 / 74	163	229	229	622	56.6	
65 / 69	256	210	234	700	54.5	
60 / 64	288	210	224	722	51.3	
55 / 59	240	196	211	647	47.1	
50 / 54	221	194	214	629	43.1	
45 / 49	209	179	204	592	39.1	
40 / 44	212	168	207	587	35.6	
35 / 39	252	151	224	627	32.1	
30 / 34	273	125	217	615	28.6	
25 / 29	253	90	164	508	24.6	
20 / 24	193	62	100	355	20.2	
15 / 19	108	36	55	200	15.7	
10 / 14	65	24	40	130	10.9	
5 / 9	42	16	27	85	6.3	
0 / 4	25	8	14	47	1.5	
-5 / -1	13	3	7	23	-2.9	
-10 / -6	10	2	4	16	-7.3	
-15 / -11	4	0	2	6	-12.3	
-20 / -16	1		0	1	-16.5	

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

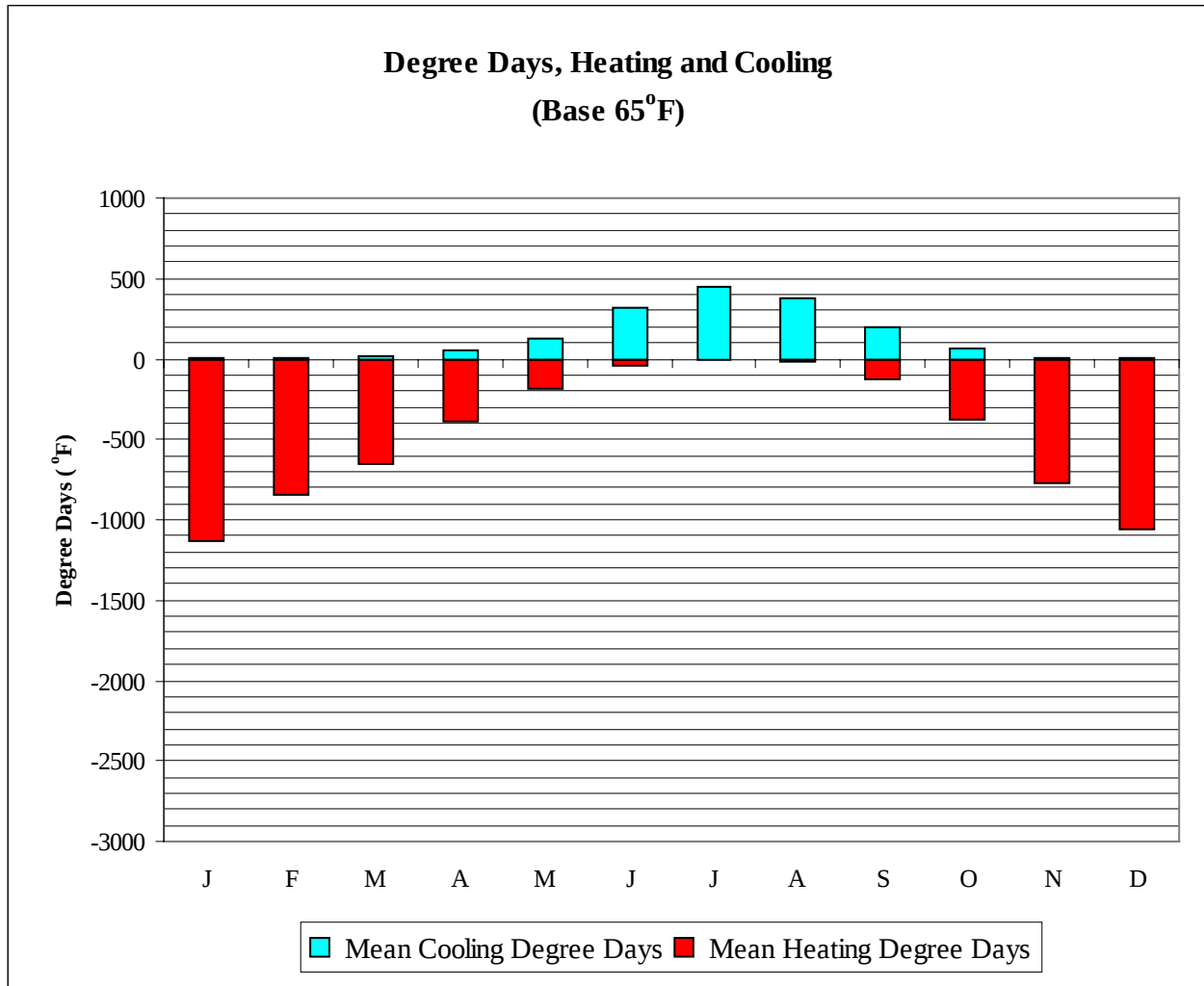


LA JUNTA CO

WMO No. 724635

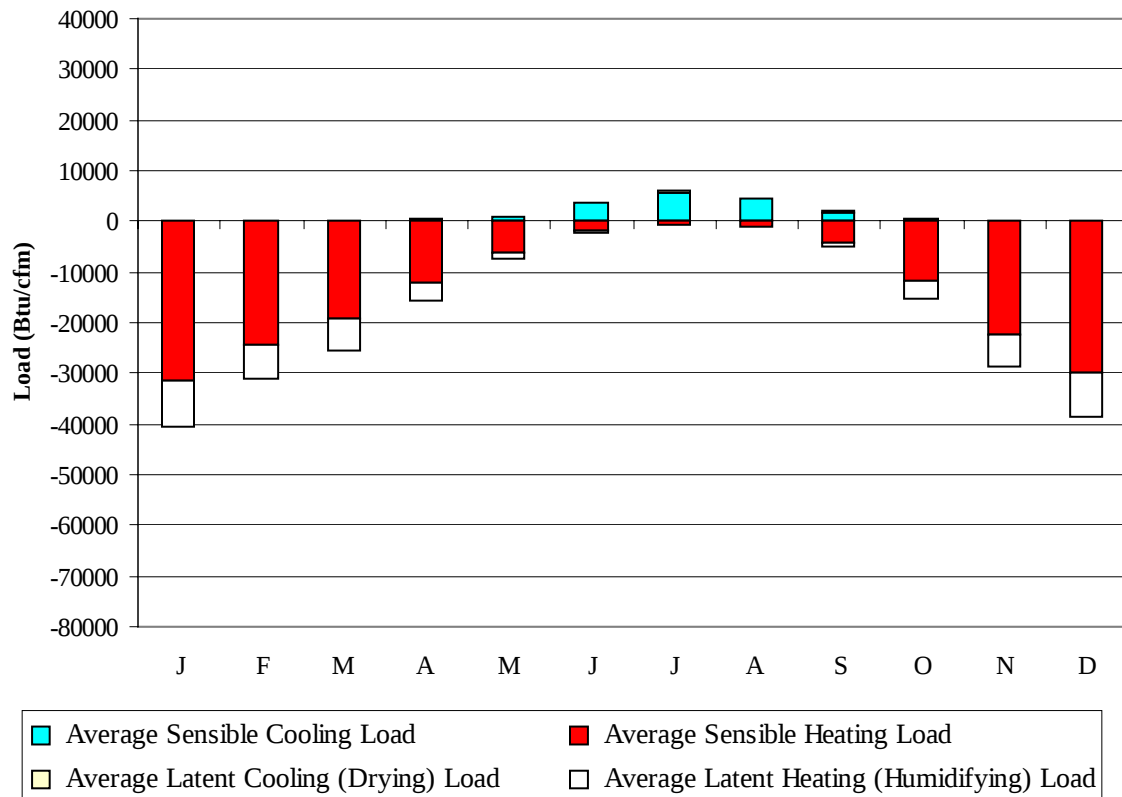
Long Term Dry Bulb Temperature and Humidity Summary

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	58.0	42.4	38.2	14.5	-8.0	31.5	44.4	19.9	10.7
14-Jan	64.0	43.5	41.5	14.9	-3.0	32.9	43.3	20.1	10.9
21-Jan	64.0	44.4	42.4	18.0	-6.0	35.0	44.4	22.4	12.6
28-Jan	65.0	43.5	45.2	18.6	4.0	33.6	43.6	22.4	12.0
4-Feb	65.0	44.9	43.6	18.6	-8.0	32.2	43.1	22.6	13.1
11-Feb	65.0	45.0	43.3	17.3	-8.0	32.2	47.1	22.2	12.4
18-Feb	69.0	46.7	50.9	23.8	2.0	36.4	54.1	25.1	14.7
25-Feb	73.0	47.9	55.0	26.5	16.0	36.4	50.8	25.7	15.1
4-Mar	73.0	47.6	54.2	26.8	9.0	45.5	47.4	26.8	16.1
11-Mar	76.0	49.9	57.6	28.8	9.0	43.4	49.0	29.6	16.9
18-Mar	76.0	49.0	59.4	30.9	19.0	42.7	51.4	30.6	17.9
25-Mar	78.0	49.7	60.6	31.1	20.0	40.6	46.3	28.4	15.9
1-Apr	81.0	51.9	59.2	32.5	18.0	48.3	57.0	31.3	17.9
8-Apr	82.0	53.2	63.8	34.5	22.0	46.9	52.7	33.5	19.2
15-Apr	84.0	52.3	66.7	37.3	25.0	58.1	58.3	36.7	20.7
22-Apr	86.0	54.3	70.3	40.8	32.0	67.2	61.3	40.1	23.9
29-Apr	88.0	55.7	71.8	43.1	32.0	59.5	56.0	42.6	24.7
6-May	88.0	57.1	70.9	44.4	33.0	67.2	64.1	49.7	31.1
13-May	88.0	57.7	76.6	47.5	36.0	75.6	67.5	53.1	31.0
20-May	92.0	58.7	78.1	50.2	41.0	81.2	66.8	60.4	36.7
27-May	91.0	59.0	78.3	51.6	43.0	83.3	68.3	65.1	40.0
3-Jun	94.0	60.1	79.2	52.8	44.0	86.8	67.9	67.9	42.5
10-Jun	99.0	63.6	84.5	55.6	48.0	93.1	73.4	70.6	43.6
17-Jun	100.0	60.9	89.3	58.6	51.0	93.8	74.0	70.8	41.0
24-Jun	102.0	63.1	90.9	60.0	53.0	104.3	73.1	79.0	47.0
1-Jul	104.0	64.6	93.4	63.1	56.0	103.6	75.0	81.1	49.7
8-Jul	103.0	64.7	95.7	64.4	56.0	107.8	73.7	82.3	49.7
15-Jul	102.0	66.2	93.7	64.0	57.0	107.8	74.9	85.1	56.1
22-Jul	102.0	65.2	93.2	64.7	58.0	111.3	73.0	88.8	58.2
29-Jul	102.0	65.3	92.5	63.5	58.0	108.5	77.7	87.1	57.1
5-Aug	100.0	66.3	91.2	63.2	57.0	106.4	71.4	90.3	61.6
12-Aug	103.0	66.8	92.5	63.1	56.0	105.0	71.7	86.2	57.5
19-Aug	101.0	64.3	90.9	62.8	56.0	107.8	72.7	87.9	59.4
26-Aug	99.0	64.6	91.2	62.4	55.0	104.3	73.5	84.0	55.9
2-Sep	100.0	64.5	89.3	59.9	53.0	98.7	70.2	78.2	50.4
9-Sep	98.0	64.3	87.9	58.0	49.0	97.3	71.3	71.6	46.3
16-Sep	95.0	61.2	81.6	54.1	40.0	90.3	70.2	67.6	43.3
23-Sep	93.0	60.1	80.0	50.3	38.0	86.1	64.3	58.9	35.8
30-Sep	91.0	58.6	77.8	47.7	34.0	78.4	62.7	52.6	33.3
7-Oct	88.0	56.3	75.7	44.9	36.0	76.3	68.0	46.9	29.2
14-Oct	88.0	55.8	73.1	40.9	30.0	59.5	64.3	39.6	24.9
21-Oct	84.0	54.1	69.7	38.8	28.0	60.2	55.7	37.8	24.0
28-Oct	81.0	54.6	67.5	36.4	27.0	56.0	61.3	36.7	22.1
4-Nov	78.0	51.3	60.0	32.4	10.0	51.8	60.9	33.2	21.1
11-Nov	78.0	51.7	59.5	30.0	19.0	46.2	51.4	30.9	19.0
18-Nov	74.0	49.5	57.0	27.2	14.0	41.3	49.3	27.6	16.5
25-Nov	73.0	48.9	51.3	23.4	8.0	37.8	40.3	25.6	14.5
2-Dec	68.0	45.4	46.4	20.3	4.0	35.0	50.3	23.6	12.7
9-Dec	67.0	45.5	48.4	21.9	1.0	37.8	51.8	24.5	14.4
16-Dec	66.0	45.6	47.1	20.3	2.0	30.8	46.1	23.0	12.6
23-Dec	62.0	43.5	42.7	17.1	-9.0	32.9	40.2	20.8	11.4
31-Dec	63.0	45.3	40.8	16.0	-7.0	32.2	44.1	20.8	11.4



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	1	1127
FEB	3	849
MAR	16	657
APR	56	394
MAY	131	189
JUN	320	46
JUL	447	11
AUG	381	19
SEP	200	122
OCT	61	383
NOV	9	771
DEC	1	1056
ANN	1626	5624

Average Ventilation and Infiltration Loads
(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)



	Average Sensible Cooling Load	Average Sensible Heating Load	Average Latent Cooling Load	Average Latent Heating Load
	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)
JAN	0	-31610	0	-9060
FEB	3	-24153	0	-7062
MAR	45	-19278	0	-6095
APR	338	-12100	0	-3706
MAY	1014	-6379	1	-1004
JUN	3617	-1898	87	-332
JUL	5524	-638	375	-56
AUG	4342	-984	293	-25
SEP	1897	-4289	33	-560
OCT	390	-11854	0	-3351
NOV	20	-22204	0	-6384
DEC	0	-29756	0	-8710
ANN	17190	-165143	789	-46345

Average Annual Solar Radiation – Nearest Available Site

(Source: National Renewable Energy Laboratory, Golden CO, 1995)

City: PUEBLO
 State: CO
 WBAN No: 93058
 Lat(N): 38.28
 Long(W): 104.52
 Elev(ft): 4721

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.485
 Vert Gap: 0.311

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	840	1120	1490	1900	2110	2340	2280	2060	1710	1330	920	760	1570
	Std Dev	52	62	97	83	103	110	95	82	87	93	50	43	31
	Minimum	720	1010	1240	1660	1930	2130	2110	1890	1540	1090	840	690	1510
	Maximum	920	1230	1640	2050	2330	2560	2460	2210	1870	1460	1030	830	1630
	Diffuse	270	360	500	590	690	640	620	580	460	350	290	250	470
Clear Day	Global	1030	1390	1880	2380	2680	2790	2700	2430	2010	1520	1100	920	1900
NORTH	Global	210	270	350	450	570	660	600	480	370	290	220	190	390
	Diffuse	210	270	350	430	490	510	490	440	360	290	220	190	360
Clear Day	Global	190	240	310	420	610	730	670	470	340	260	200	170	380
EAST	Global	600	750	950	1180	1250	1370	1370	1260	1070	880	640	550	990
	Diffuse	260	340	440	530	580	590	580	540	450	360	280	240	430
Clear Day	Global	790	990	1250	1470	1570	1590	1560	1470	1290	1050	820	720	1220
SOUTH	Global	1500	1500	1360	1140	900	810	860	1060	1320	1570	1500	1480	1250
	Diffuse	370	430	500	530	540	530	520	520	480	430	380	350	470
Clear Day	Global	2100	2110	1870	1410	1030	860	920	1210	1650	2000	2080	2060	1610
WEST	Global	600	750	930	1080	1130	1200	1110	1080	1030	880	650	560	920
	Diffuse	260	340	450	540	600	610	590	550	460	360	280	240	440
Clear Day	Global	790	990	1250	1470	1570	1590	1560	1470	1290	1050	820	720	1220

Average Annual Solar Heat and Illumination – Nearest Available Site

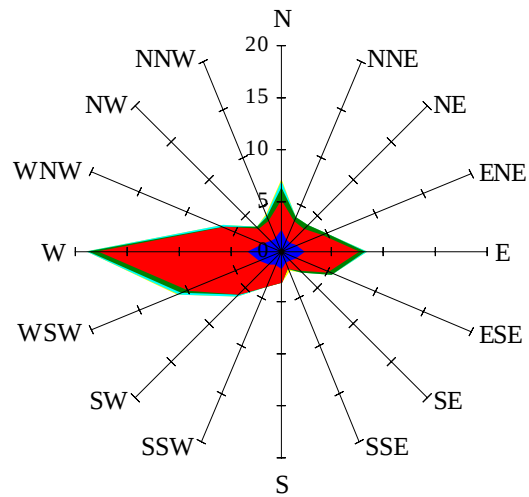
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	540	760	1060	1380	1540	1720	1680	1500	1230	920	610	480	1120
NORTH	Unshaded	150	190	250	300	370	420	380	320	250	200	160	130	260
	Shaded	130	170	230	280	340	380	350	290	240	190	140	120	240
EAST	Unshaded	420	530	680	840	900	980	980	900	760	620	440	380	700
	Shaded	380	480	610	740	780	850	850	790	680	570	400	350	620
SOUTH	Unshaded	1130	1100	930	730	530	460	490	650	880	1120	1120	1120	850
	Shaded	1110	1030	750	470	350	340	330	390	630	1000	1100	1100	710
WEST	Unshaded	420	530	660	770	800	850	780	770	730	620	460	380	650
	Shaded	380	480	590	680	700	730	670	660	650	560	420	350	570

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	46	78	85	67	28	53	89	105	97	69
	M.Cloudy	29	54	62	48	19	37	69	85	76	50
NORTH	M.Clear	10	14	14	13	8	19	15	16	16	13
	M.Cloudy	10	16	17	14	7	16	17	18	18	15
EAST	M.Clear	84	57	14	13	8	88	73	28	16	13
	M.Cloudy	40	38	17	14	7	49	56	27	18	15
SOUTH	M.Clear	45	76	84	66	28	11	30	44	39	17
	M.Cloudy	25	48	56	42	15	12	27	39	34	17
WEST	M.Clear	10	14	25	71	75	11	15	16	53	83
	M.Cloudy	10	16	23	45	33	12	17	18	44	53
M.Clear	(% hrs)	41	41	39	38	34	60	60	61	48	38
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	33	72	89	81	49	19	47	51	32	2
	M.Cloudy	21	50	65	58	34	13	33	37	23	2
NORTH	M.Clear	8	13	15	14	11	6	10	11	8	1
	M.Cloudy	8	15	18	16	12	5	11	12	8	1
EAST	M.Clear	79	72	26	14	11	53	41	11	8	1
	M.Cloudy	31	44	24	16	12	21	25	12	8	1
SOUTH	M.Clear	25	59	76	68	39	50	90	95	69	8
	M.Cloudy	13	38	52	46	24	20	48	55	36	3
WEST	M.Clear	8	13	15	56	82	6	10	25	55	12
	M.Cloudy	8	15	18	40	44	5	11	19	29	5
M.Clear	(% hrs)	57	62	61	57	51	48	47	47	47	49

Wind Summary - December, January, and February

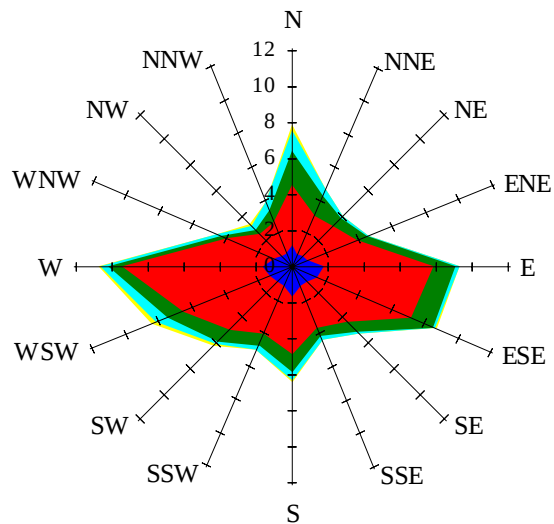
Labels of Percent Frequency on North Axis



Percent Calm = 8.02

Wind Summary - March, April, and May

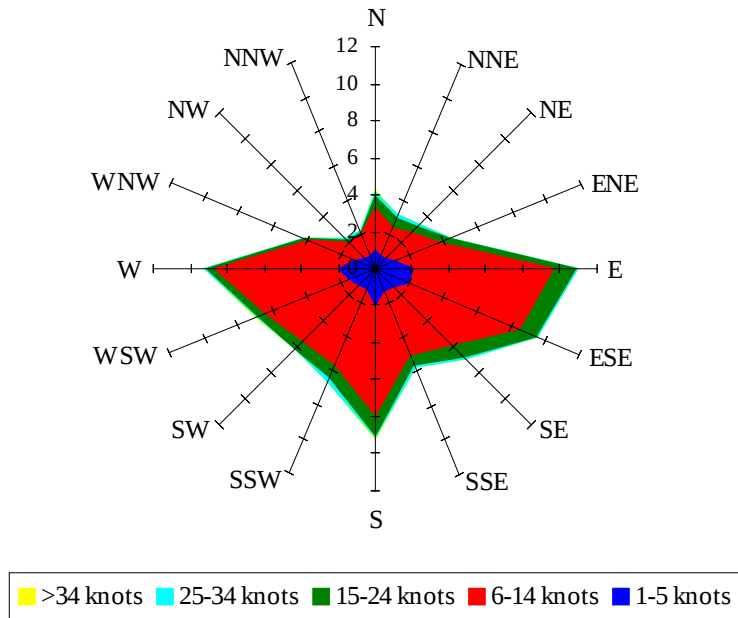
Labels of Percent Frequency on North Axis



Percent Calm = 4.52

Wind Summary - June, July, and August

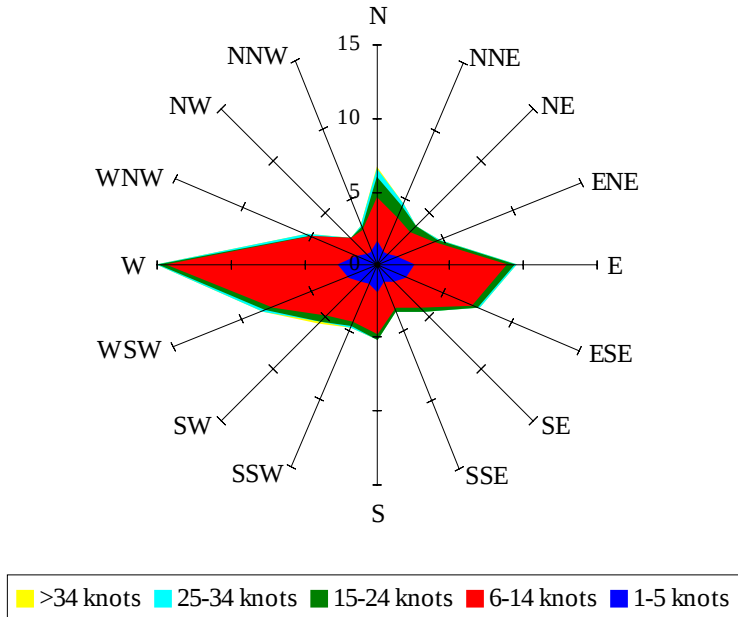
Labels of Percent Frequency on North Axis



Percent Calm = 5.28

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 7.00