

ARMSTRONG CN

Latitude = 50.30 N

Longitude = 89.03 W

Period of Record = 1977 to 1996

WMO No. 718410

Elevation = 1152 feet

Average Pressure = 28.73 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	89	68	73	7.0	W
0.4% Occurrence	84	67	74	7.1	W
1.0% Occurrence	81	65	71	6.8	W
2.0% Occurrence	77	63	67	6.6	W
Mean Daily Range	21	-	-	-	-
97.5% Occurrence	-24	-24	1	2.1	WSW
99.0% Occurrence	-31	-31	1	1.4	SW
99.6% Occurrence	-36	-36	1	0.8	WSW
Median of Extreme Lows	-44	-45	0	0.1	ENE
	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	74	83	112	6.0	S
0.4% Occurrence	70	79	98	5.5	S
1.0% Occurrence	67	75	88	5.1	S
2.0% Occurrence	65	73	81	5.2	S
	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	77	0.74	4.5	S
0.4% Occurrence	101	74	0.65	4.2	S
1.0% Occurrence	94	74	0.61	4.3	S
2.0% Occurrence	85	66	0.54	4.7	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		1	93	7	110

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
3	N/A	N/A	0.1 + 0.1
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 (#)
35.2	N/A	N/A	70

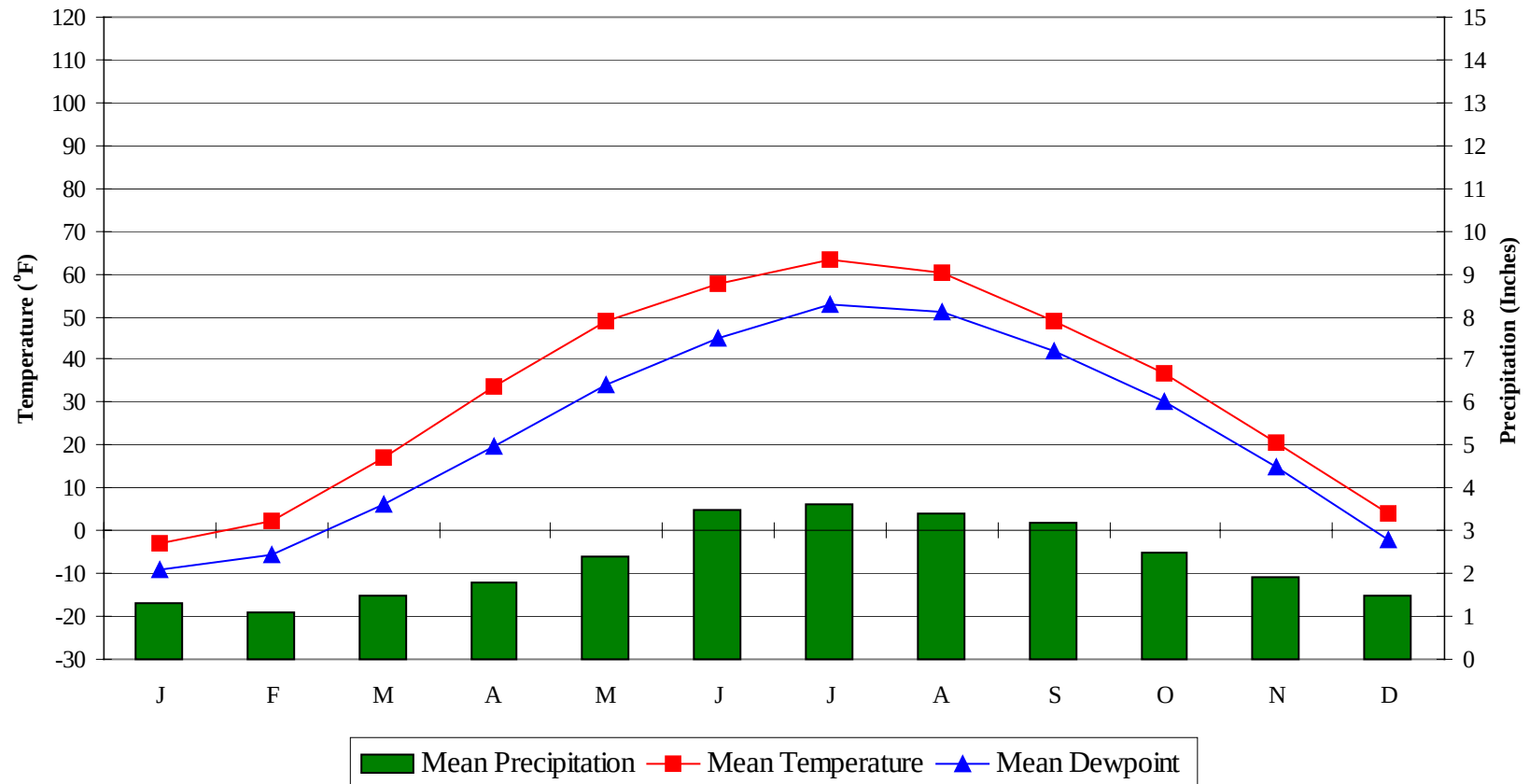
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

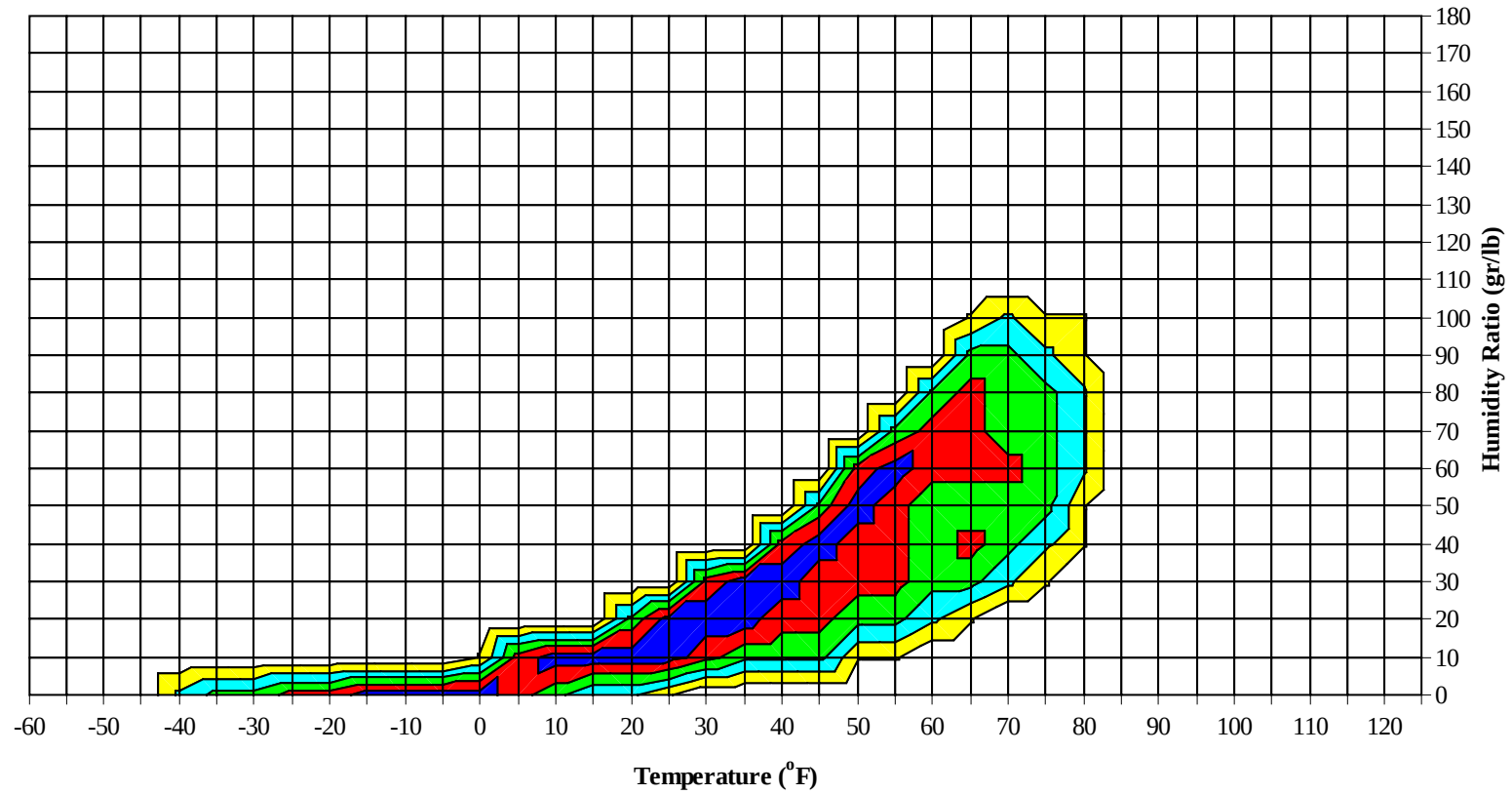


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Long Term Psychrometric Summary



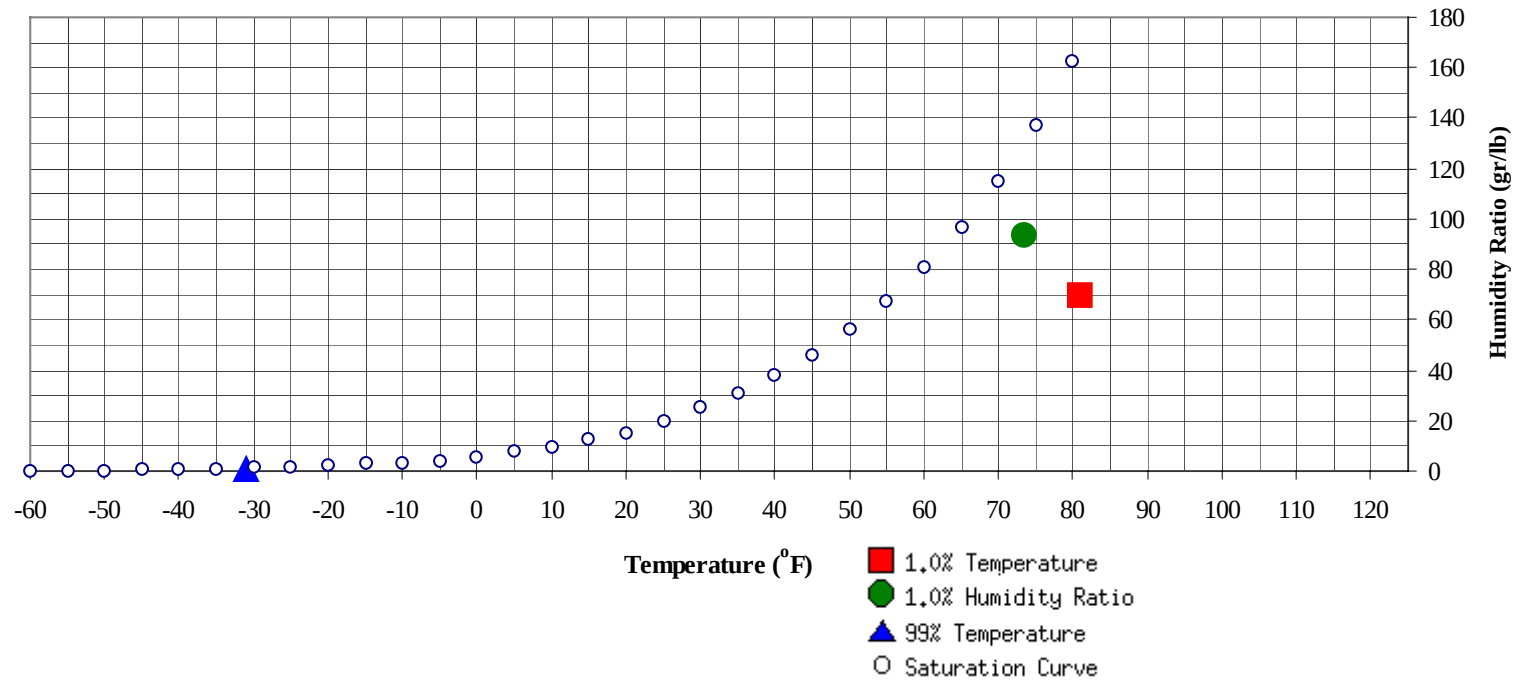
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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Psychrometric Summary of Peak Design Values



99% Dry Bulb	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
	-31	0.7	-7.3		93.8	73.5	67.3	64.4	32.3

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	81	70.1	64.7	30.4

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

Period of Record = 1977 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		
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64												0		0	47.0
55 / 59												1	0	1	46.3
50 / 54							0		0	40.7		3	2	5	41.0
45 / 49							1	1	2	38.1	1	8	5	15	38.1
40 / 44						0	2	1	3	36.4	1	11	8	19	35.0
35 / 39	0	1	1	2	33.9	1	5	4	11	33.7	4	27	23	54	32.2
30 / 34	6	7	8	21	29.5	6	10	10	26	29.8	21	37	34	92	28.7
25 / 29	7	11	11	29	24.9	10	14	18	42	24.5	29	35	44	108	23.6
20 / 24	10	10	11	30	20.9	10	13	13	35	20.5	21	26	25	72	19.6
15 / 19	10	14	14	38	16.3	13	22	20	56	15.7	25	29	31	85	15.1
10 / 14	16	24	19	59	10.9	17	26	27	70	10.4	25	27	25	76	10.3
5 / 9	23	26	28	77	5.8	20	30	29	79	5.5	25	20	16	60	5.4
0 / 4	24	34	29	87	0.5	16	29	24	68	0.3	20	12	13	45	0.4
-5 / -1	16	25	21	62	-3.9	15	14	15	44	-4.2	14	5	5	25	-4.1
-10 / -6	25	28	29	83	-8.2	19	20	21	60	-8.3	17	4	6	28	-8.3
-15 / -11	15	17	19	51	-12.7	15	11	13	39	-12.8	9	2	3	14	-12.7
-20 / -16	24	20	23	67	-17.0	21	11	14	46	-17.1	15	2	4	21	-16.9
-25 / -21	24	14	16	55	-22.3	21	8	8	37	-22.3	9	1	1	11	-22.3
-30 / -26	17	8	11	36	-27.4	16	4	4	25	-27.4	7	0	1	9	-27.6
-35 / -31	10	4	4	17	-31.8	9	2	2	13	-31.9	3	0	0	3	-31.9
-40 / -36	12	4	4	20	-35.8	11	2	0	13	-35.8	2			2	-36.0
-45 / -41	7	2	0	9	-41.0	3	1	0	4		0			0	-42.0
-50 / -46	1	0		1	-45.5	0	0		0	-48.0					
-55 / -51	0	0		0											

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.

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

Period of Record = 1977 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		
100 / 104												0		0	72.0
95 / 99												0	0	0	72.1
90 / 94							1	0	1	63.6		2	1	3	68.7
85 / 89							1	1	2	62.8		3	1	4	66.6
80 / 84		0		0	65.0	0	5	3	8	61.5	0	10	5	15	64.0
75 / 79		1	0	1	58.4	0	12	7	20	58.6	0	19	15	34	61.2
70 / 74		3	1	4	53.5	1	17	13	31	55.7	1	32	26	58	58.1
65 / 69		3	1	4	49.9	1	17	13	31	53.9	7	30	27	63	56.4
60 / 64		7	4	11	47.7	4	29	22	56	50.6	23	46	47	117	54.4
55 / 59	0	13	9	22	44.5	11	34	32	77	47.4	39	45	45	129	51.8
50 / 54	1	21	16	38	41.6	21	42	42	105	44.8	55	32	34	121	48.6
45 / 49	5	29	26	60	38.4	35	41	43	118	41.5	47	15	24	85	44.1
40 / 44	10	29	28	67	35.2	34	20	24	79	38.6	28	4	6	39	40.0
35 / 39	20	46	44	111	32.3	51	19	24	94	35.0	25	3	6	34	36.1
30 / 34	52	41	49	142	28.7	47	7	18	72	30.2	13	1	1	15	31.3
25 / 29	59	23	35	117	23.9	31	2	5	38	25.6	2			2	27.8
20 / 24	29	10	11	50	19.7	7	1	0	8	21.1					
15 / 19	26	9	10	44	15.5	3	0	0	3	17.5					
10 / 14	16	3	3	22	10.9	0			0	13.8					
5 / 9	10	2	2	14	5.6										
0 / 4	6	1	1	8	0.9										
-5 / -1	2	0	0	2	-3.9										
-10 / -6	2			2	-8.2										
-15 / -11	1			1	-12.7										
-20 / -16	0			0	-16.3										
-25 / -21	0			0	-21.8										
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															

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

Period of Record = 1977 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		
100 / 104															
95 / 99		0		0	71.0										
90 / 94		1	0	1	71.7		1	0	1	69.6					
85 / 89		3	1	4	69.6		3	2	5	67.8		0	0	0	71.0
80 / 84		16	10	25	66.5		10	8	18	67.2		2	0	2	67.1
75 / 79	1	41	28	70	63.6	0	26	16	42	64.8		3	1	4	64.0
70 / 74	4	62	46	113	61.0	2	46	29	78	61.7	1	9	5	15	61.2
65 / 69	13	42	37	92	59.4	10	36	34	79	59.9	2	15	10	27	58.2
60 / 64	46	45	51	142	58.0	40	55	57	151	57.8	5	31	23	59	55.5
55 / 59	63	26	43	131	54.5	52	44	47	142	53.9	21	45	37	103	52.3
50 / 54	64	10	23	97	50.8	58	21	32	111	50.0	37	54	47	138	48.3
45 / 49	39	2	8	49	45.8	41	6	17	64	45.4	43	42	49	134	44.0
40 / 44	13		1	14	41.6	22	1	5	28	41.3	34	18	27	79	39.9
35 / 39	6		0	6	37.4	19		1	20	37.2	39	18	25	83	36.0
30 / 34						4			4	32.3	39	4	12	56	31.2
25 / 29						0			0	28.0	14	0	3	18	26.6
20 / 24											2		0	2	22.1
15 / 19											1			1	18.3
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															

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

Period of Record = 1977 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		
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74		0	0	0	60.2										
65 / 69		2	0	2	56.3										
60 / 64	0	6	2	8	52.8		0		0	48.0					
55 / 59	2	11	9	22	50.5		0	0	0	45.2					
50 / 54	8	27	15	50	46.4	1	2	1	4	44.8					
45 / 49	13	42	31	87	42.6	2	8	4	14	42.7	0		0	0	45.7
40 / 44	20	29	28	76	39.1	5	11	6	23	39.5	0	0	0	0	40.7
35 / 39	44	49	47	141	35.0	15	22	18	55	35.0	0	4	1	5	33.5
30 / 34	68	51	64	183	30.2	27	35	31	93	30.2	11	17	16	44	30.3
25 / 29	58	23	39	120	25.2	38	43	46	128	25.0	20	23	20	64	25.3
20 / 24	22	4	10	36	20.9	31	30	27	88	20.8	16	18	18	52	21.1
15 / 19	9	3	3	15	16.8	34	32	30	96	16.5	24	24	26	73	16.5
10 / 14	3	0	0	3	11.9	22	23	27	71	11.2	24	25	17	66	11.3
5 / 9	1	0	0	1	7.7	16	16	17	49	6.1	21	24	24	69	5.9
0 / 4	0	0	0	0	1.1	17	9	11	37	0.9	17	24	25	66	0.6
-5 / -1	1		0	1	-3.8	9	4	9	22	-3.7	13	19	17	49	-3.9
-10 / -6						11	4	6	22	-8.0	20	26	26	72	-8.2
-15 / -11						6	1	2	10	-12.4	17	16	17	50	-12.7
-20 / -16						3	1	1	5	-16.6	22	14	19	56	-16.9
-25 / -21						2	0	1	3	-21.9	19	7	12	38	-22.2
-30 / -26						0	0	0	0	-27.1	10	4	5	19	-27.4
-35 / -31						0	0		0	-31.9	7	2	2	11	-31.9
-40 / -36						0	0		0	-35.0	5	2	1	8	-35.5
-45 / -41											1	0	0	1	
-50 / -46											0			0	
-55 / -51															

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

Period of Record = 1977 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		
100 / 104		0		0	72.0
95 / 99		0	0	0	72.0
90 / 94		4	2	6	68.3
85 / 89		9	5	14	67.5
80 / 84	0	42	26	68	65.6
75 / 79	1	101	67	169	62.9
70 / 74	10	167	118	294	60.0
65 / 69	32	143	120	295	58.1
60 / 64	117	219	204	539	55.8
55 / 59	184	219	219	623	52.0
50 / 54	241	212	211	665	47.8
45 / 49	223	197	209	629	42.9
40 / 44	166	127	138	431	38.6
35 / 39	228	196	198	622	34.5
30 / 34	296	212	246	754	29.8
25 / 29	272	176	223	671	24.7
20 / 24	149	110	116	375	20.5
15 / 19	145	133	135	413	16.0
10 / 14	124	126	119	369	10.8
5 / 9	118	116	116	350	5.7
0 / 4	102	106	101	309	0.5
-5 / -1	69	67	69	204	-4.0
-10 / -6	93	82	89	264	-8.2
-15 / -11	63	46	54	163	-12.7
-20 / -16	87	47	61	195	-17.0
-25 / -21	77	30	38	145	-22.3
-30 / -26	51	17	20	89	-27.4
-35 / -31	29	7	8	43	-31.8
-40 / -36	30	7	5	42	-35.7
-45 / -41	12	3	1	15	-41.5
-50 / -46	2	1		3	-46.3
-55 / -51	0	0		0	

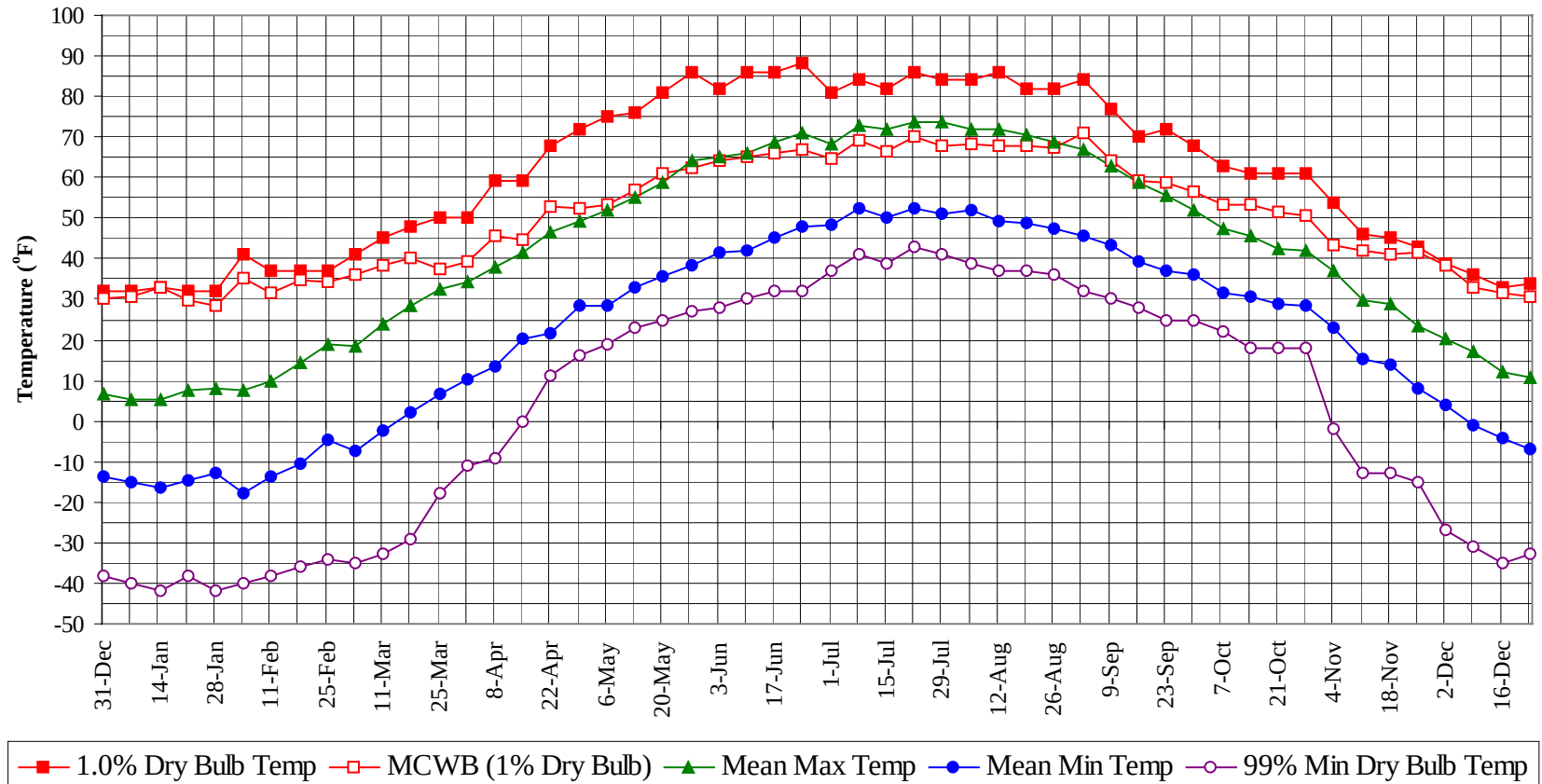
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary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

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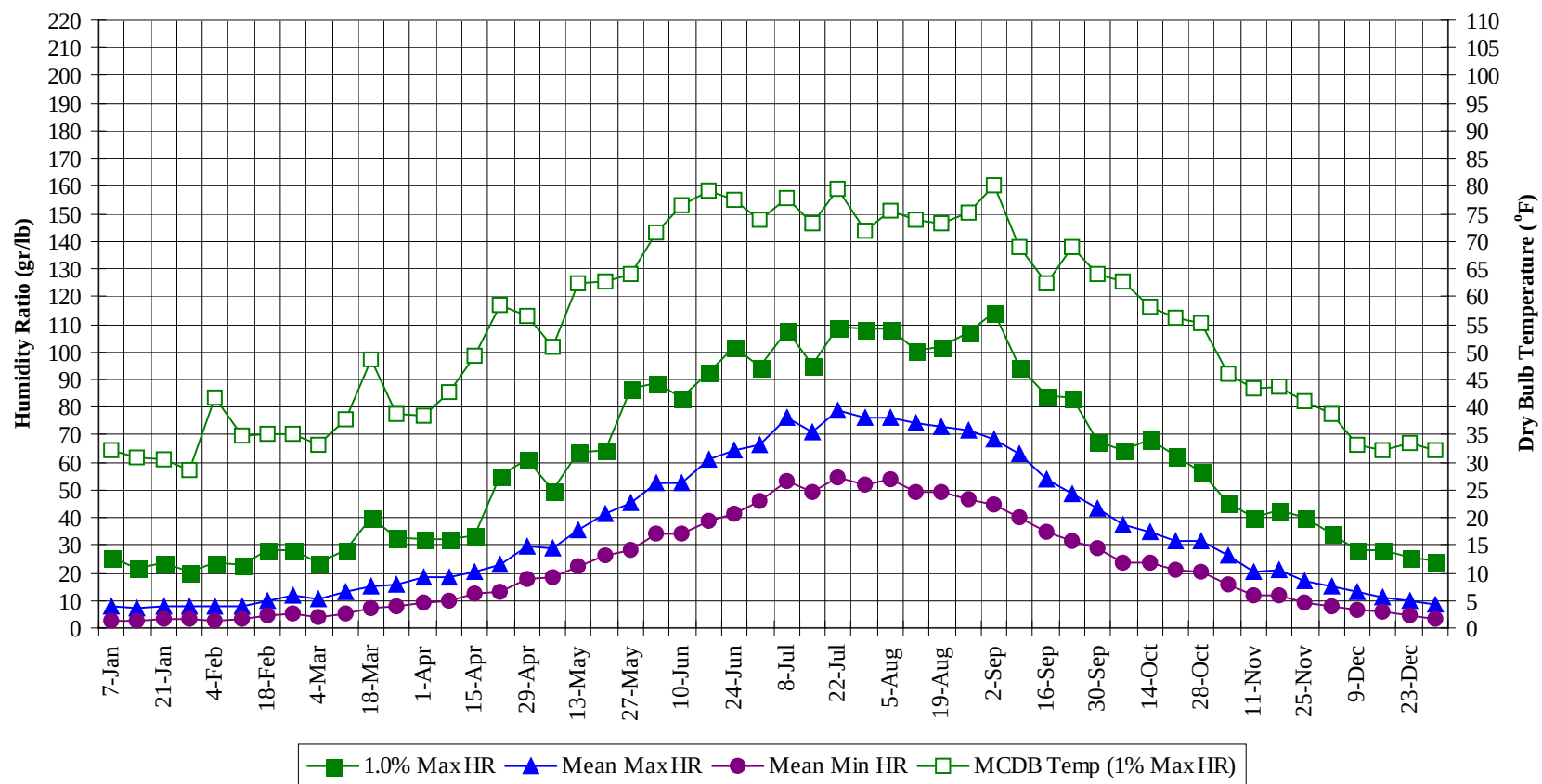
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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



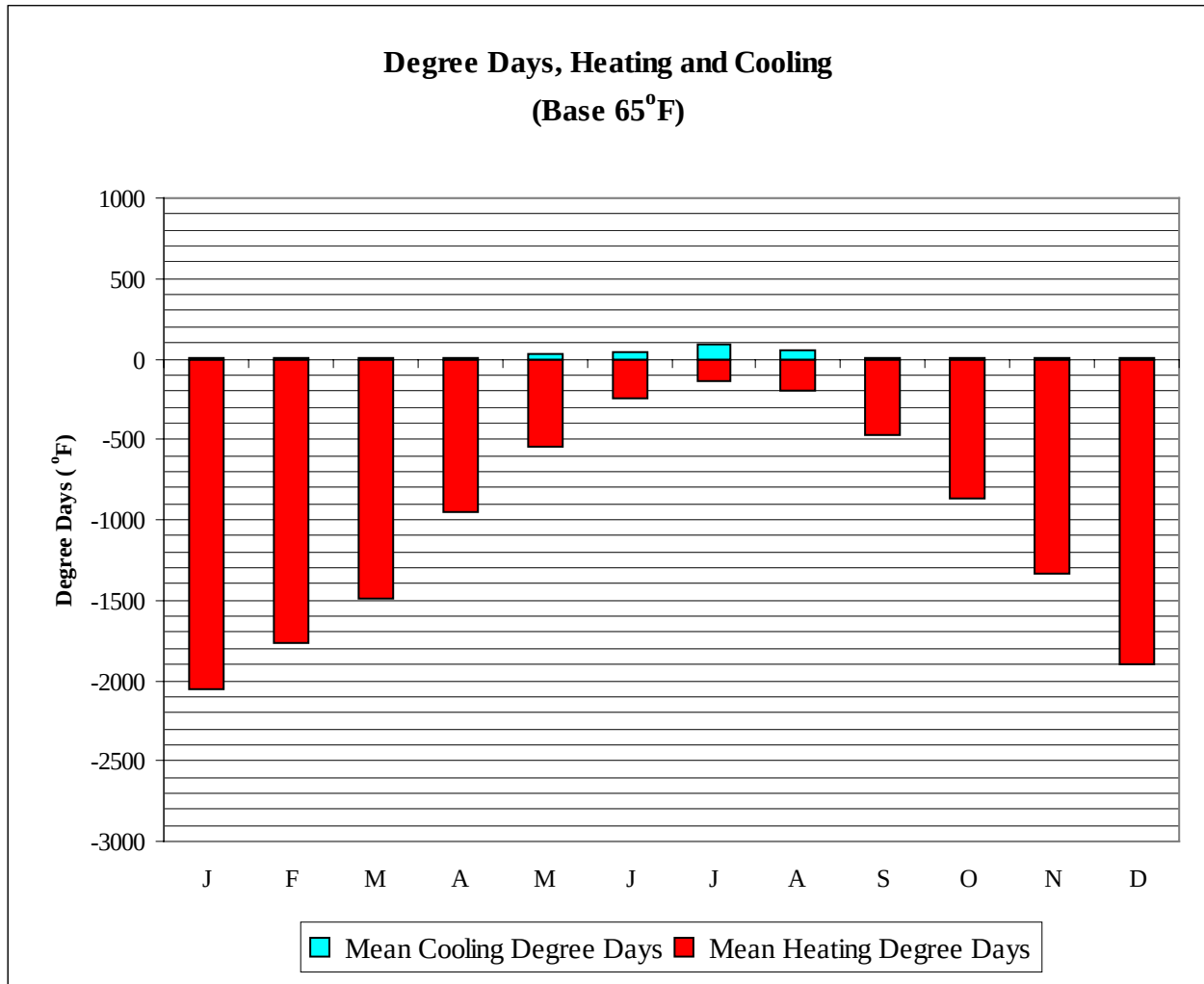
ARMSTRONG**CN****WMO No. 718410****Long Term Dry Bulb Temperature and Humidity Summary**

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	32.0	30.6	5.3	-15.1	-40.0	25.9	32.0	7.6	2.9
14-Jan	33.0	33.0	5.1	-16.5	-42.0	21.7	31.0	7.3	2.8
21-Jan	32.0	29.9	7.4	-14.5	-38.0	23.8	30.5	8.1	3.0
28-Jan	32.0	28.2	8.2	-13.0	-42.0	20.3	28.7	7.6	3.1
4-Feb	41.0	35.2	7.4	-17.6	-40.0	23.8	41.8	7.8	2.7
11-Feb	37.0	31.8	9.8	-13.8	-38.0	23.1	34.8	7.9	3.2
18-Feb	37.0	34.6	14.4	-10.4	-36.0	28.0	35.0	9.9	4.3
25-Feb	37.0	34.2	19.0	-4.7	-34.0	28.0	35.0	12.0	5.5
4-Mar	41.0	35.9	18.5	-7.6	-35.0	23.8	33.2	10.2	3.8
11-Mar	45.0	38.2	24.1	-2.6	-33.0	28.0	37.8	13.0	5.4
18-Mar	48.0	40.1	28.4	2.2	-29.0	39.9	48.7	14.9	7.3
25-Mar	50.0	37.5	32.4	6.5	-18.0	32.9	38.7	16.1	7.6
1-Apr	50.0	39.4	34.3	10.4	-11.0	32.2	38.4	18.2	9.0
8-Apr	59.0	45.5	38.0	13.5	-9.0	32.2	42.6	18.5	10.1
15-Apr	59.0	44.7	41.4	20.2	0.0	33.6	49.3	20.6	12.5
22-Apr	68.0	53.0	46.7	21.7	11.0	55.3	58.3	23.2	13.5
29-Apr	72.0	52.6	49.2	28.2	16.0	60.9	56.6	29.4	17.9
6-May	75.0	53.5	52.2	28.5	19.0	49.7	51.0	28.9	18.2
13-May	76.0	57.0	55.3	32.9	23.0	63.7	62.3	35.6	22.3
20-May	81.0	60.9	58.6	35.4	25.0	64.4	62.8	41.3	26.1
27-May	86.0	62.4	64.2	38.4	27.0	86.8	64.0	45.5	28.4
3-Jun	82.0	64.3	65.0	41.6	28.0	88.9	71.7	52.4	33.9
10-Jun	86.0	65.0	65.9	42.1	30.0	83.3	76.4	52.2	34.0
17-Jun	86.0	66.1	68.9	45.0	32.0	92.4	79.0	60.9	38.4
24-Jun	88.0	66.7	70.9	47.7	32.0	101.5	77.4	64.4	41.6
1-Jul	81.0	64.9	68.4	48.2	37.0	94.5	74.0	66.2	45.8
8-Jul	84.0	69.2	72.7	52.5	41.0	107.8	77.7	76.0	53.1
15-Jul	82.0	66.2	72.0	49.9	39.0	95.2	73.2	70.9	49.3
22-Jul	86.0	70.1	73.9	52.5	43.0	109.2	79.5	78.6	54.7
29-Jul	84.0	67.7	73.7	51.2	41.0	108.5	71.9	76.0	51.7
5-Aug	84.0	68.5	72.1	51.8	39.0	108.5	75.4	76.5	53.6
12-Aug	86.0	67.7	71.8	49.4	37.0	100.8	73.9	74.5	49.2
19-Aug	82.0	67.6	70.3	48.7	37.0	101.5	73.2	72.8	49.0
26-Aug	82.0	67.4	68.7	47.5	36.0	107.1	75.1	71.5	46.7
2-Sep	84.0	71.0	66.8	45.6	32.0	114.1	80.1	68.3	44.7
9-Sep	77.0	64.3	63.0	43.3	30.0	94.5	68.9	62.9	40.3
16-Sep	70.0	59.1	58.9	39.5	28.0	84.0	62.4	53.7	34.7
23-Sep	72.0	58.9	55.6	37.1	25.0	83.3	68.8	48.3	31.3
30-Sep	68.0	56.5	52.0	35.9	25.0	67.9	64.1	43.4	28.9
7-Oct	63.0	53.1	47.6	31.6	22.0	64.4	62.7	37.6	23.8
14-Oct	61.0	53.3	45.7	30.7	18.0	68.6	58.2	34.8	23.4
21-Oct	61.0	51.3	42.7	28.9	18.0	62.3	56.3	31.8	20.9
28-Oct	61.0	50.6	41.8	28.3	18.0	56.7	55.1	31.6	20.4
4-Nov	54.0	43.5	37.2	22.9	-2.0	45.5	46.0	26.2	16.1
11-Nov	46.0	42.0	29.7	15.3	-13.0	39.9	43.3	20.7	11.8
18-Nov	45.0	41.0	28.9	13.7	-13.0	42.7	43.5	21.2	12.1
25-Nov	43.0	41.7	23.2	7.9	-15.0	39.9	41.0	16.8	9.2
2-Dec	39.0	38.4	20.2	4.0	-27.0	34.3	38.8	15.0	8.2
9-Dec	36.0	32.8	16.9	-1.1	-31.0	28.0	33.3	12.9	6.3
16-Dec	33.0	31.7	12.3	-4.4	-35.0	28.0	32.2	11.0	5.7
23-Dec	34.0	30.6	10.9	-6.8	-33.0	25.9	33.4	10.1	4.8
31-Dec	32.0	30.2	6.7	-13.5	-38.0	24.5	32.2	8.3	3.3

ARMSTRONG

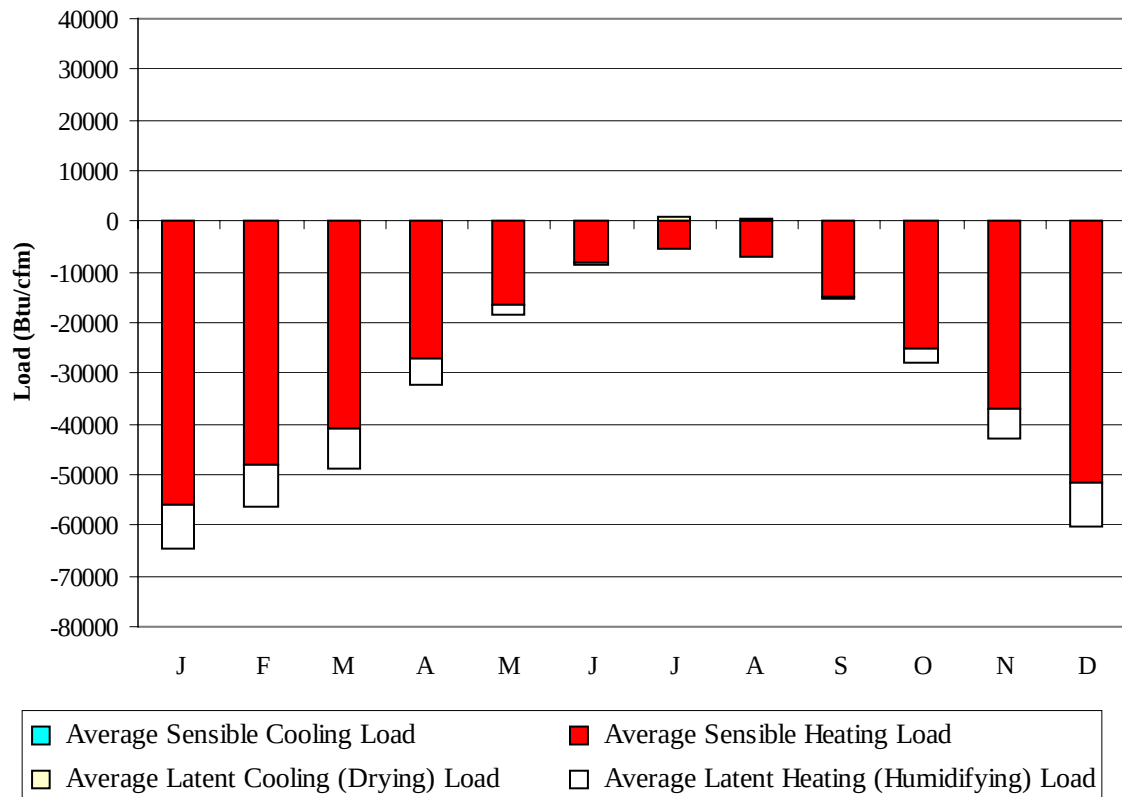
CN

WMO No. 718410



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	2059
FEB	0	1765
MAR	0	1486
APR	1	951
MAY	24	545
JUN	46	249
JUL	84	142
AUG	57	203
SEP	9	479
OCT	0	873
NOV	0	1338
DEC	0	1896
ANN	221	11986

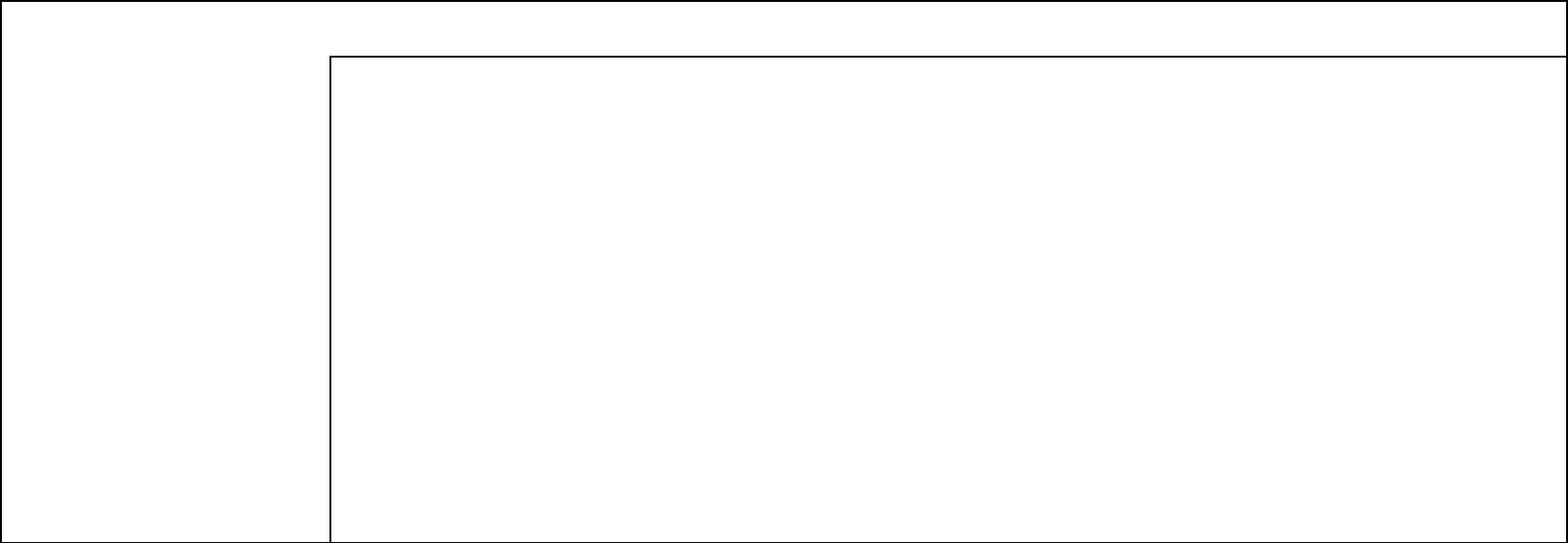
Average Ventilation and Infiltration Loads
(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)



	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	-55737	0	-8981
FEB	0	-47979	0	-8190
MAR	0	-40996	0	-7830
APR	1	-27029	0	-5322
MAY	116	-16343	19	-1915
JUN	219	-8176	106	-266
JUL	310	-5259	418	-4
AUG	221	-7105	467	-26
SEP	19	-14687	53	-529
OCT	0	-25066	0	-2781
NOV	0	-36987	0	-5956
DEC	0	-51579	0	-8549
ANN	886	-336943	1063	-50349

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

No Solar Radiation
Data Available

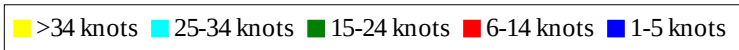
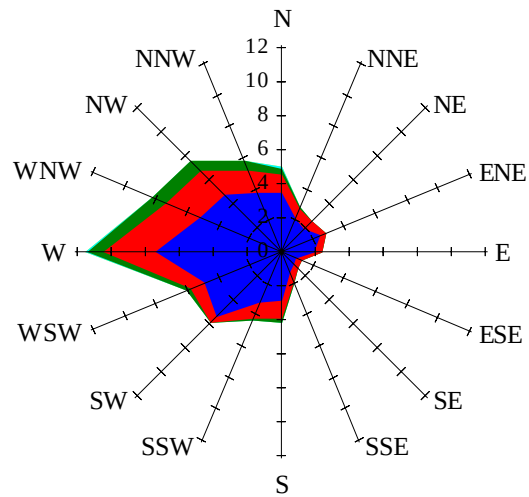


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

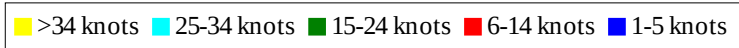
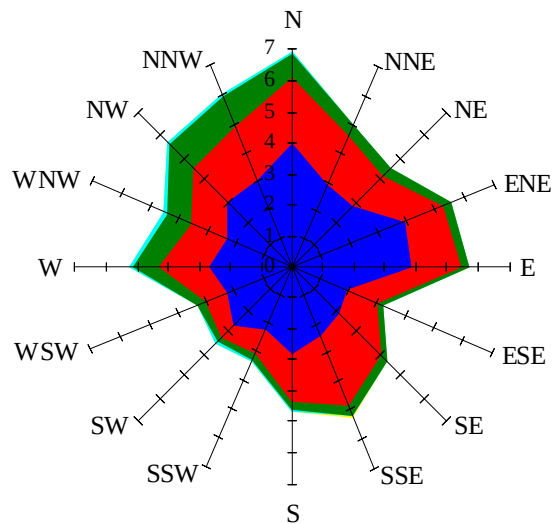
Labels of Percent Frequency on North Axis



Percent Calm = 27.54

Wind Summary - March, April, and May

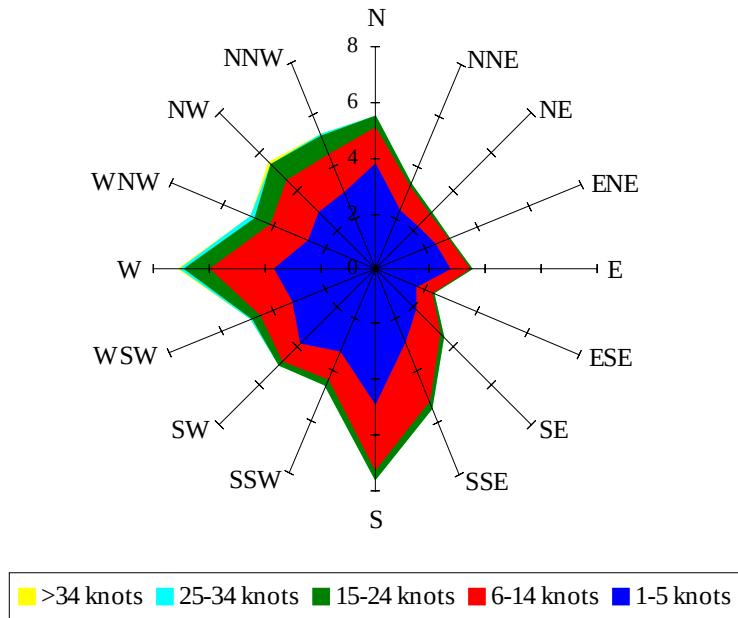
Labels of Percent Frequency on North Axis



Percent Calm = 24.21

Wind Summary - June, July, and August

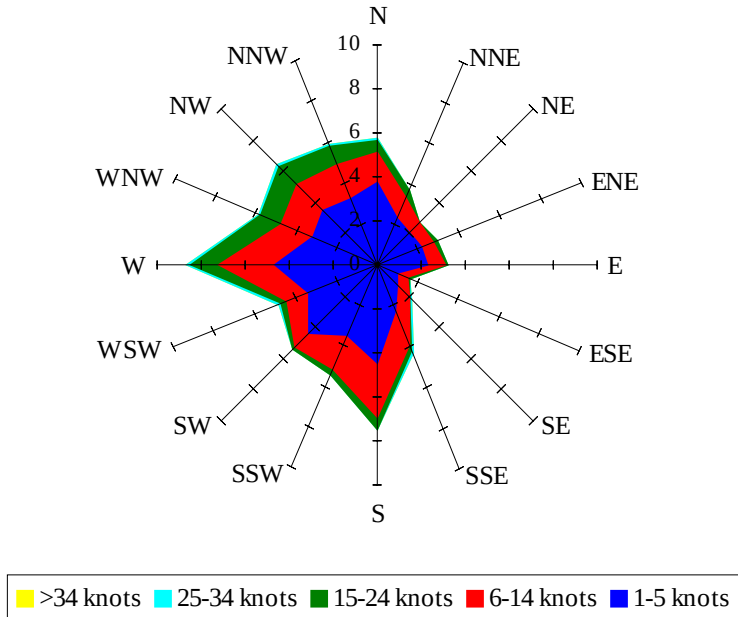
Labels of Percent Frequency on North Axis



Percent Calm = 26.58

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 23.77