CAYENNE/ROCHAMBEAU FG	
Latitude = 4.83 N	WMO No. 814050
Longitude = 52.37 W	Elevation = 30 feet
Period of Record = 1973 to 1996	Average Pressure = 29.82 inches Hg

Design Criteria Data

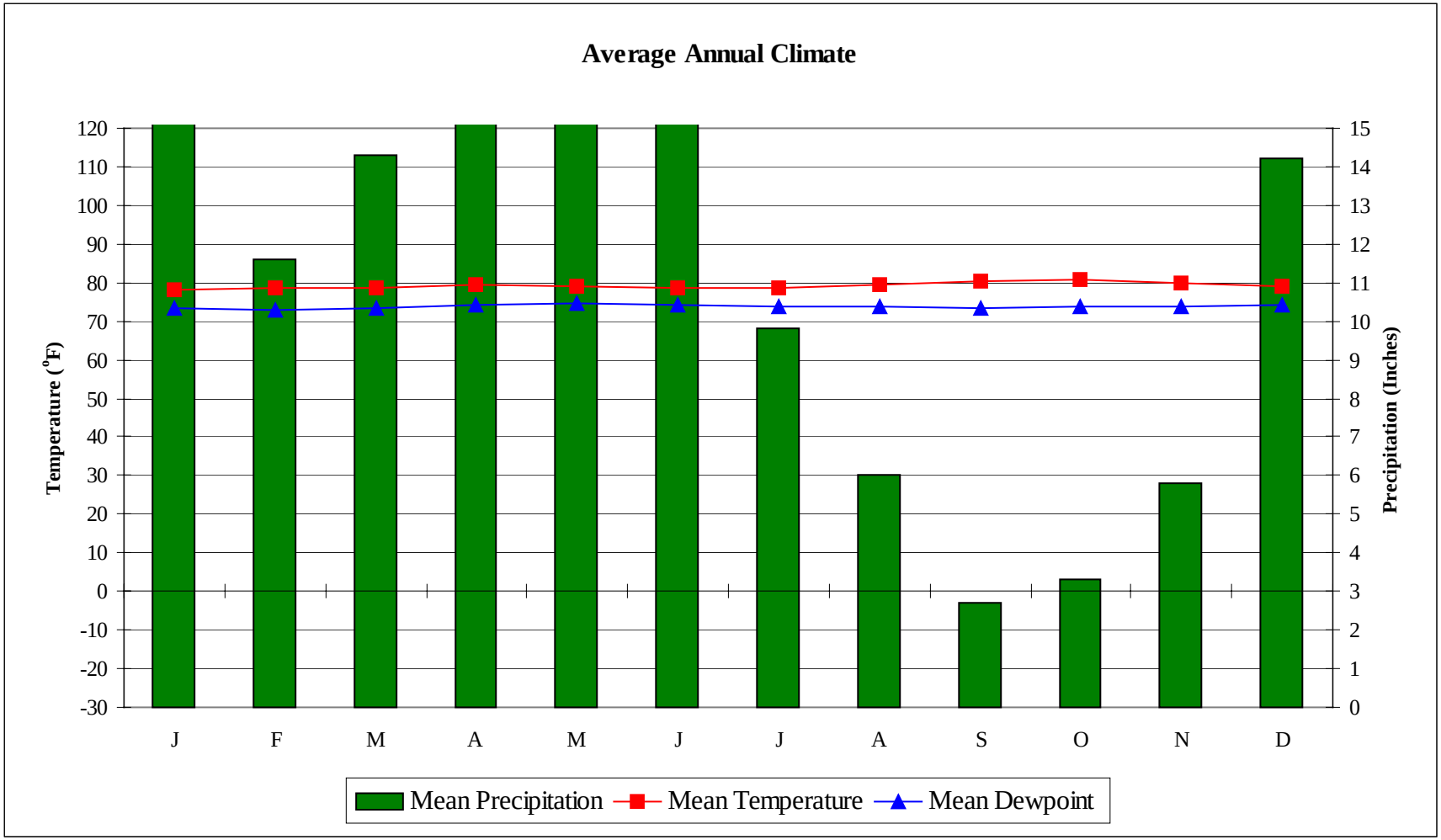
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	91	78	123	11.4	E
0.4% Occurrence	90	78	124	11.3	E
1.0% Occurrence	89	77	125	11.8	E
2.0% Occurrence	88	77	125	11.8	E
Mean Daily Range	11	-	-	-	-
97.5% Occurrence	72	72	119	0.8	VARIABLE
99.0% Occurrence	71	71	114	0.4	VARIABLE
99.6% Occurrence	70	70	109	0.3	WSW
Median of Extreme Lows	68	68	102	0.5	MISSING
		Mean Coincident (Average) Values			
Wet Bulb Temperature (T_{wb})	**Design Value (^oF)**	Dry Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	82	87	153	11.4	E
0.4% Occurrence	80	86	140	10.4	E
1.0% Occurrence	79	84	137	9.3	E
2.0% Occurrence	79	84	137	9.3	E
		Mean Coincident (Average) Values			
Humidity Ratio (HR)	**Design Value (gr/lb)**	Dry Bulb Temperature (^oF)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	169	87	1.12	13.2	E
0.4% Occurrence	150	83	0.99	8.4	E
1.0% Occurrence	142	81	0.94	7.1	E
2.0% Occurrence	141	81	0.94	6.8	E
Air Conditioning/		$T \geq 93^oF$	$T \geq 80^oF$	$T_{wb} \geq 73^oF$	$T_{wb} \geq 67^oF$
Humid Area Criteria	# of Hours	0	3714	7660	8505

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
10	N/A	N/A	11.6 + 3.3
Ground Water Temperature (^oF) 50 Foot Depth *	**Frost Depth 50 Year Recurrence (in.)**	**Ground Snow Load 50 Year Recurrence (lb/ft^2)**	**Average Annual Freeze-Thaw Cycles (#)**
81.6	N/A	N/A	0

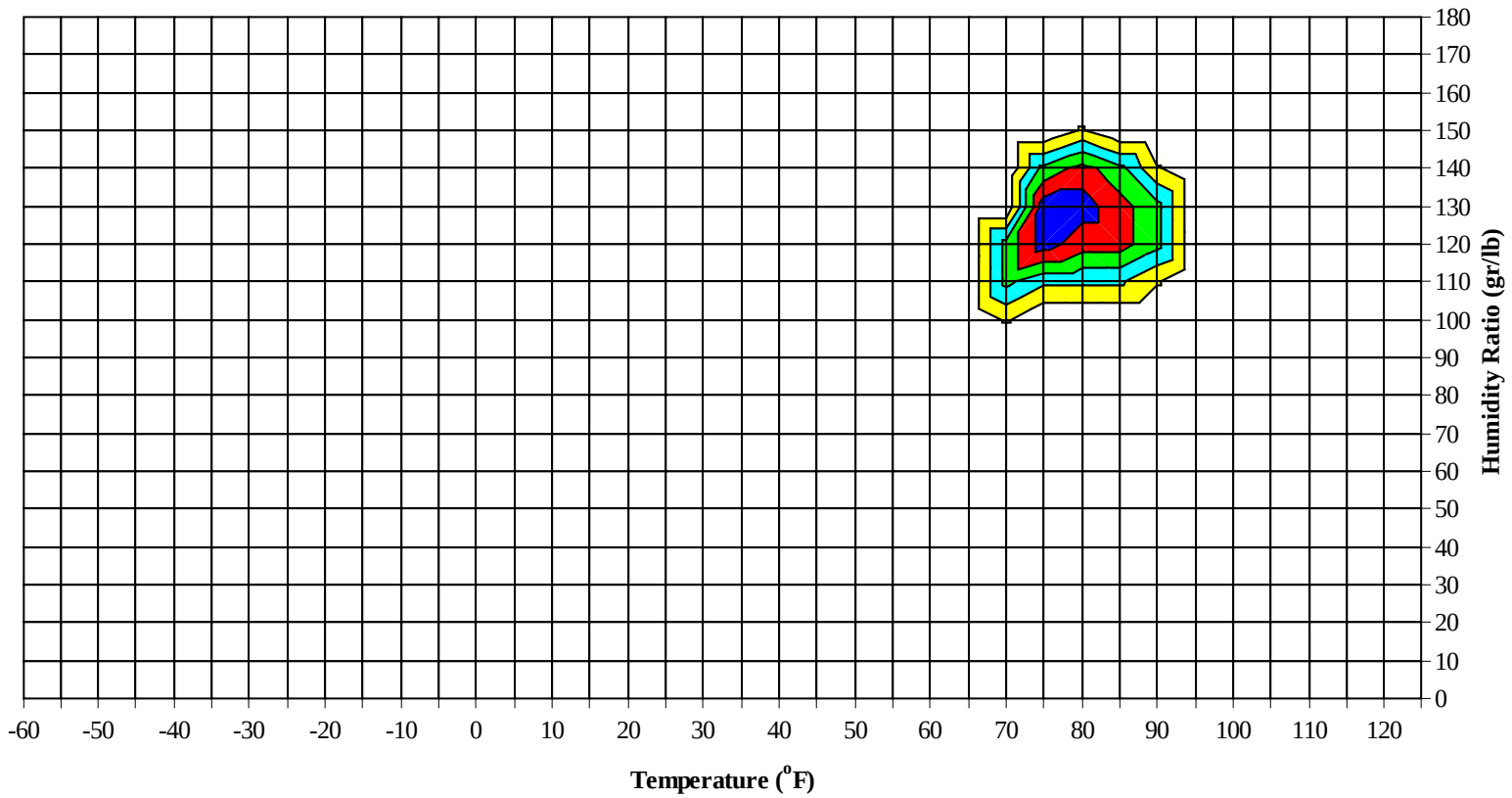
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

CAYENNE/ROCHAMBEAU FG WMO No. 814050



CAYENNE/ROCHAMBEAU FG WMO No. 814050

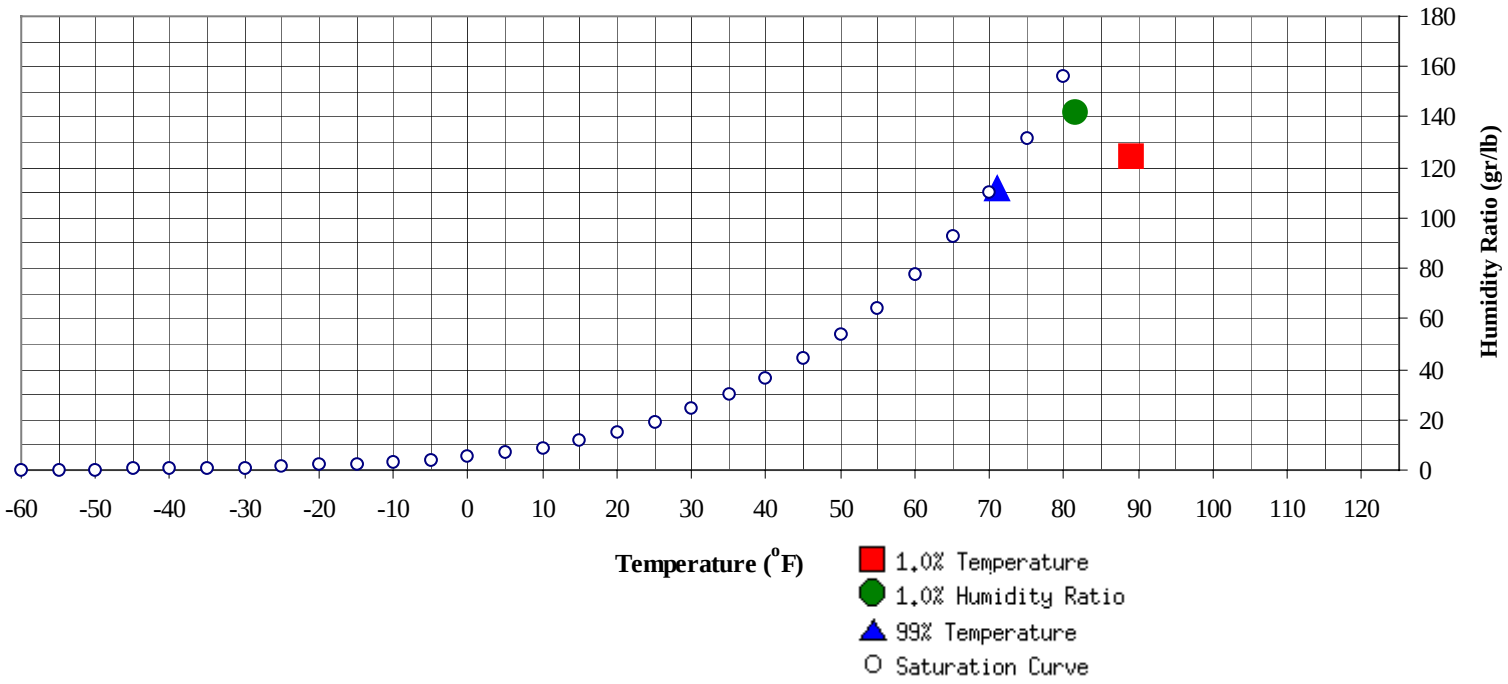
Long Term Psychrometric Summary



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

CAYENNE/ROCHAMBEAU FG WMO No. 814050

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	71	111.7	34.5

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	142.1	81.5	78.2	77	41.8

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	89	124.5	77.6	40.9

CAYENNE/ROCHAMBEAU FG WMO No. 814050

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

Period of Record = 1973 to 1996

Temperature Range (°F)	January Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	February Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	March Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
95 / 99															
90 / 94			0	0							0	0		0	79.5
85 / 89		12	0	12	76.8		14		14	76.2	0	30	1	31	76.7
80 / 84	1	164	57	222	75.9	2	150	55	207	75.4	4	156	68	228	75.9
75 / 79	147	65	165	376	74.6	142	56	151	349	74.3	167	56	162	386	74.6
70 / 74	99	7	27	133	72.2	75	4	19	98	72.0	75	5	16	96	72.1
65 / 69	1			1	68.0	4	0		4	67.8	2	0		2	67.8

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.

CAYENNE/ROCHAMBEAU FG WMO No. 814050

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

Period of Record = 1973 to 1996

Temperature Range (°F)	April Hour Group (LST) 01 To 08	April 09 To 16	April 17 To 00	April Total Obs	April MCWB (°F)	May Hour Group (LST) 01 To 08	May 09 To 16	May 17 To 00	May Total Obs	May MCWB (°F)	June Hour Group (LST) 01 To 08	June 09 To 16	June 17 To 00	June Total Obs	June MCWB (°F)
95 / 99															
90 / 94							1		1	78.7		1		1	77.4
85 / 89	0	52	1	53	77.2		53	3	56	77.9	0	55	5	60	77.8
80 / 84	8	139	81	227	76.5	6	124	68	198	77.2	0	107	60	167	77.0
75 / 79	178	47	148	372	75.1	169	67	168	404	75.5	101	74	153	328	75.2
70 / 74	55	2	10	68	72.3	73	3	9	86	72.7	139	4	22	165	72.6
65 / 69	0			0	68.0	0			0	68.3					

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.

CAYENNE/ROCHAMBEAU FG WMO No. 814050

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

Period of Record = 1973 to 1996

Temperature Range (°F)	July Hour Group (LST) 01 To 08	July 09 To 16	July 17 To 00	July Total Obs	July MCWB (°F)	August Hour Group (LST) 01 To 08	August 09 To 16	August 17 To 00	August Total Obs	August MCWB (°F)	September Hour Group (LST) 01 To 08	September 09 To 16	September 17 To 00	September Total Obs	September MCWB (°F)
95 / 99												0		0	81.5
90 / 94		2	0	2	77.8	0	8		8	78.2		24		24	77.7
85 / 89	0	83	11	94	77.3	0	112	17	129	77.5	0	130	20	151	77.2
80 / 84	0	102	71	173	76.6	0	85	82	167	76.7	0	68	90	157	76.7
75 / 79	55	57	135	247	74.9	69	40	129	239	74.9	75	18	116	209	74.9
70 / 74	193	4	31	228	72.3	177	2	21	200	72.1	163	1	13	177	71.9
65 / 69	0			0	67.0	1			1	68.3	3	0		3	68.1

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.

CAYENNE/ROCHAMBEAU FG WMO No. 814050

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)				MCWB	Hour Group (LST)				MCWB	Hour Group (LST)				MCWB
	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)
95 / 99		0		0	80.5										
90 / 94		26		26	77.6		9		9	77.5		0		0	77.5
85 / 89	0	138	15	153	77.3	0	115	6	121	77.2		55	1	56	77.3
80 / 84	1	71	97	170	76.8	2	91	89	183	76.9	4	144	72	220	76.7
75 / 79	85	12	120	218	75.0	98	23	128	249	75.1	120	46	154	320	75.2
70 / 74	159	1	15	175	71.8	137	2	17	156	72.1	123	3	20	146	72.3
65 / 69	3	0	0	3	67.7	2			2	67.9	1	0		1	67.9

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.

CAYENNE/ROCHAMBEAU FG WMO No. 814050

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

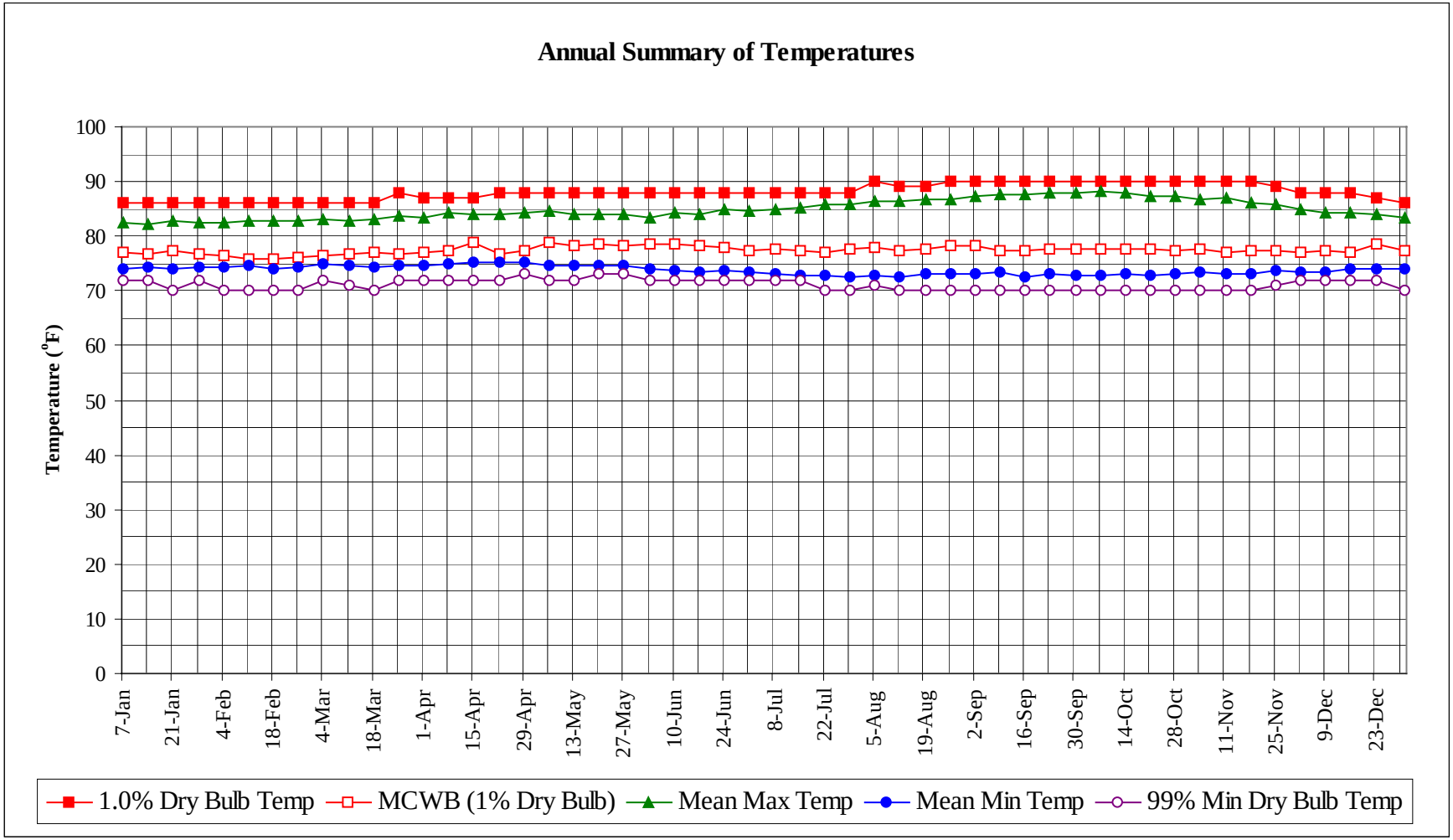
Period of Record = 1973 to 1996

Annual Totals

Temperature Range (°F)	Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
95 / 99		0		0	81.0
90 / 94	0	69	0	69	77.7
85 / 89	1	844	81	927	77.3
80 / 84	28	1403	887	2318	76.5
75 / 79	1418	565	1731	3714	75.0
70 / 74	1457	39	220	1716	72.2
65 / 69	16	0	0	16	67.9

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.

CAYENNE/ROCHAMBEAU FG WMO No. 814050



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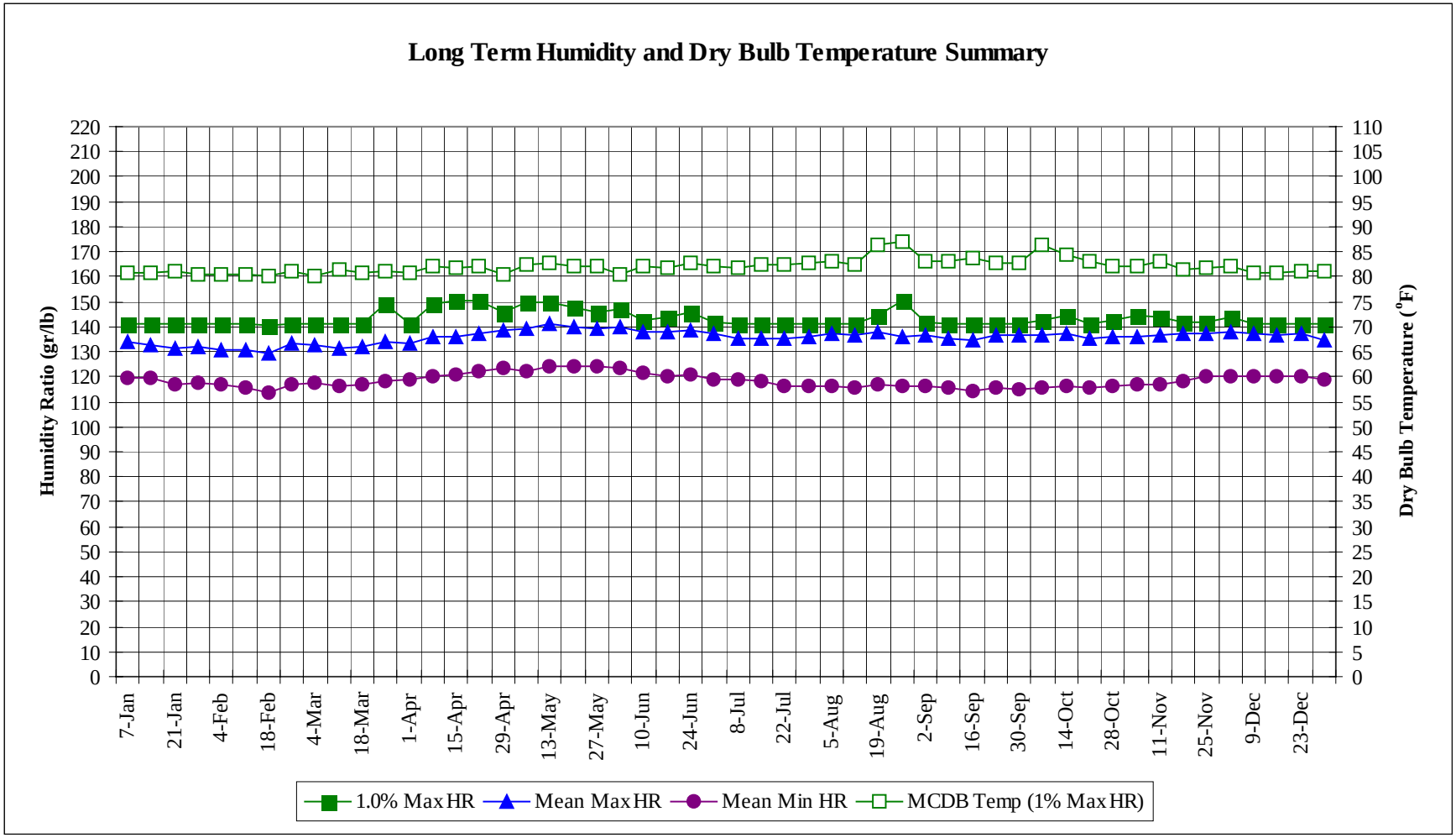
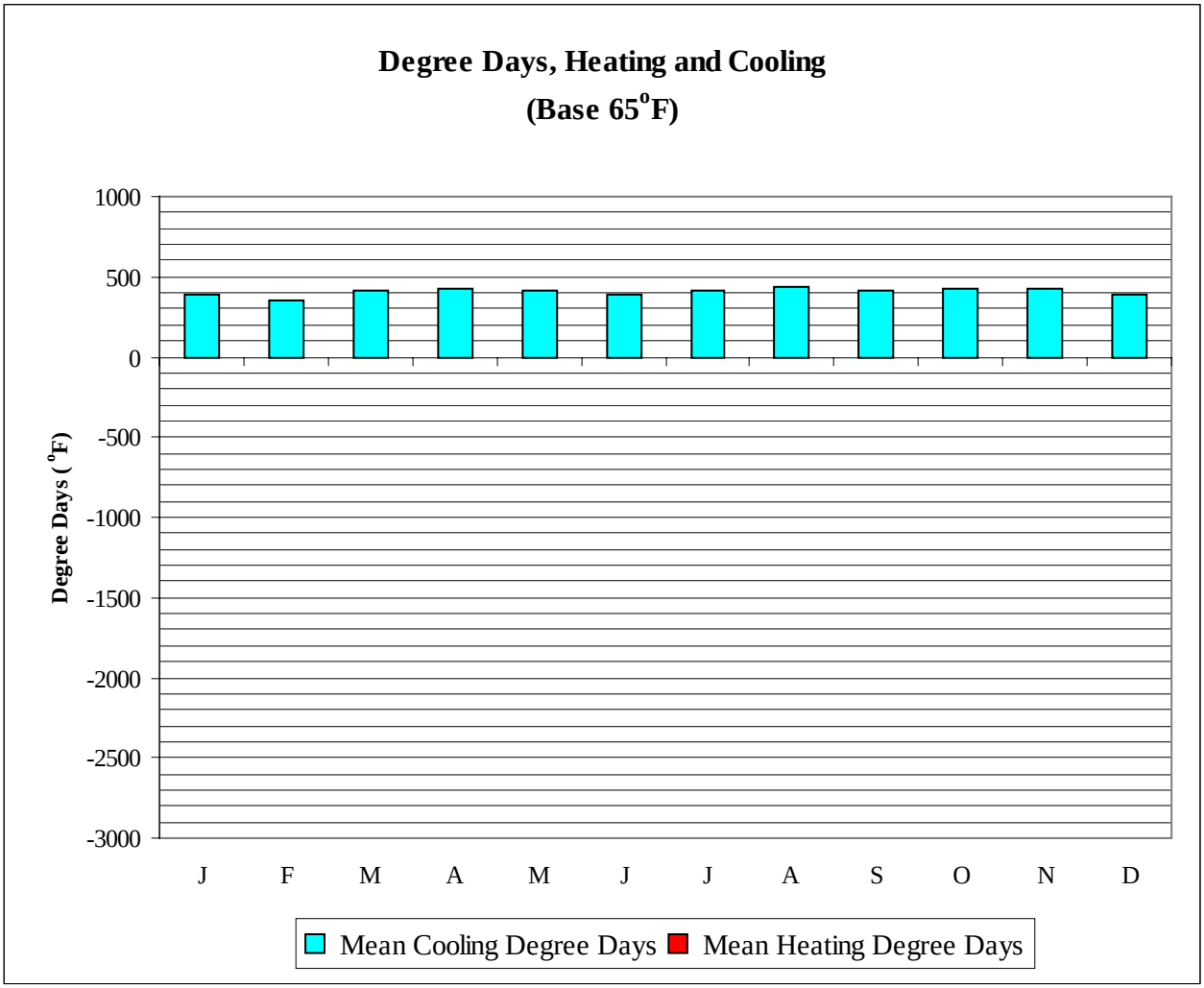


CAYENNE/ROCHAMBEAU FG WMO No. 814050

Long Term Dry Bulb Temperature and Humidity Summary

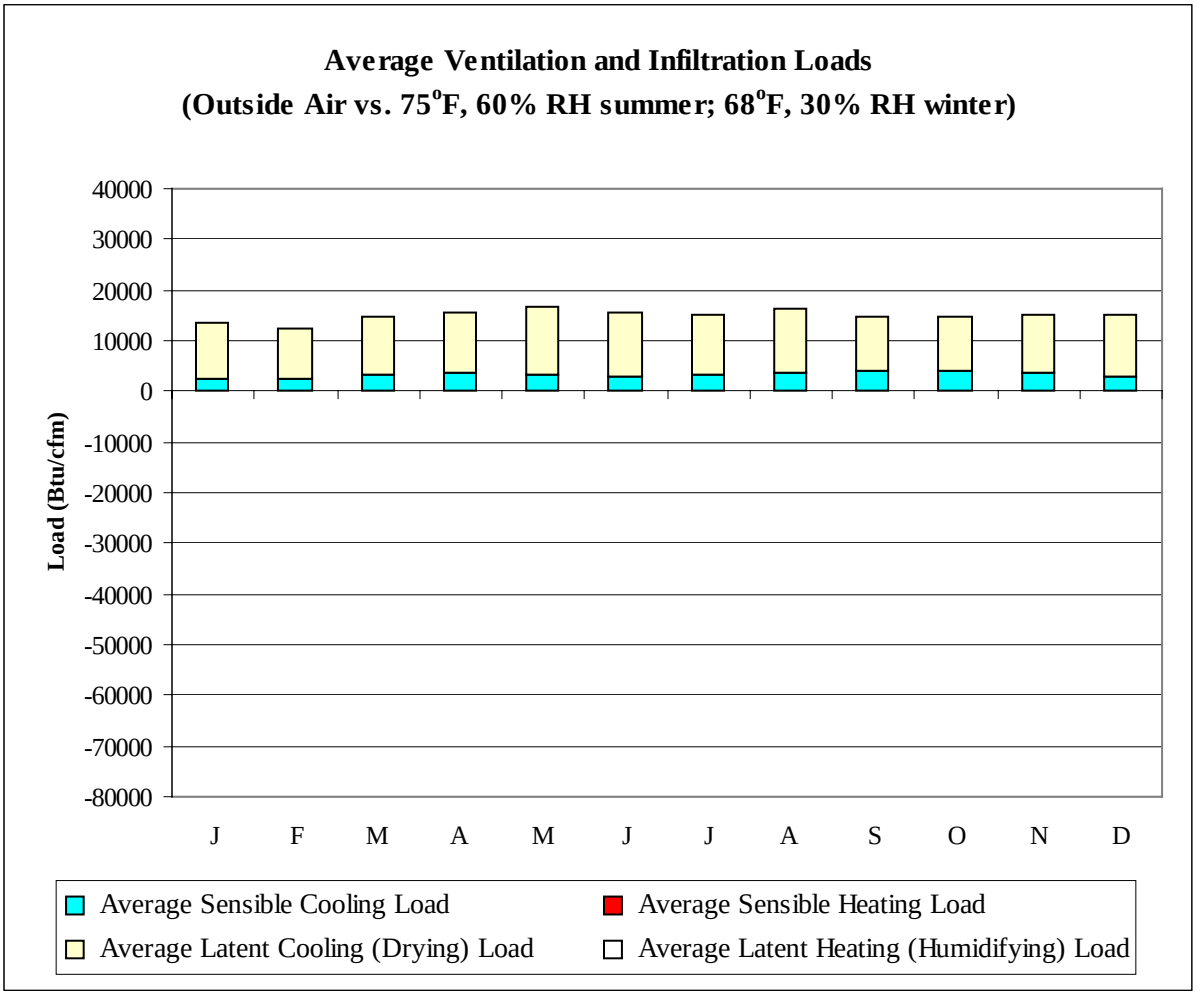
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	86.0	77.1	82.6	74.0	72.0	141.4	80.7	134.0	119.2
14-Jan	86.0	76.8	82.2	74.4	72.0	141.4	80.7	132.4	119.3
21-Jan	86.0	77.4	82.7	74.1	70.0	141.4	81.1	131.1	117.0
28-Jan	86.0	76.7	82.5	74.4	72.0	141.4	80.6	132.0	117.8
4-Feb	86.0	76.5	82.5	74.3	70.0	141.4	80.3	131.0	117.0
11-Feb	86.0	75.9	82.8	74.5	70.0	141.4	80.5	130.7	115.8
18-Feb	86.0	75.8	82.7	74.1	70.0	140.7	80.1	129.6	113.8
25-Feb	86.0	76.2	82.9	74.2	70.0	141.4	81.1	133.4	116.7
4-Mar	86.0	76.3	83.0	74.9	72.0	141.4	80.2	132.5	117.7
11-Mar	86.0	76.6	82.7	74.5	71.0	141.4	81.3	131.4	116.4
18-Mar	86.0	77.0	83.2	74.5	70.0	141.4	80.6	132.1	117.2
25-Mar	88.0	76.8	83.6	74.7	72.0	149.1	81.2	134.2	118.3
1-Apr	87.0	77.0	83.5	74.7	72.0	141.4	80.7	133.3	118.8
8-Apr	87.0	77.3	84.3	74.9	72.0	149.1	82.2	136.0	120.1
15-Apr	87.0	79.0	84.0	75.3	72.0	150.5	81.9	136.0	121.1
22-Apr	88.0	76.7	83.9	75.1	72.0	150.5	82.1	137.3	121.9
29-Apr	88.0	77.2	84.4	75.2	73.0	145.6	80.4	138.4	123.7
6-May	88.0	78.7	84.7	74.6	72.0	149.8	82.5	139.0	122.5
13-May	88.0	78.3	84.0	74.7	72.0	149.8	82.6	141.3	124.2
20-May	88.0	78.7	84.0	74.7	73.0	147.7	82.1	139.7	124.3
27-May	88.0	78.2	84.0	74.6	73.0	145.6	82.0	139.4	124.4
3-Jun	88.0	78.5	83.3	74.1	72.0	147.0	80.3	139.6	123.6
10-Jun	88.0	78.5	84.4	73.7	72.0	142.8	82.1	138.2	121.4
17-Jun	88.0	78.4	84.1	73.4	72.0	143.5	81.9	137.7	120.4
24-Jun	88.0	77.9	84.8	73.6	72.0	145.6	82.6	138.6	120.7
1-Jul	88.0	77.5	84.5	73.3	72.0	142.1	82.0	137.2	119.2
8-Jul	88.0	77.7	84.8	73.3	72.0	141.4	81.6	135.5	118.8
15-Jul	88.0	77.5	85.1	72.9	72.0	141.4	82.4	135.4	118.2
22-Jul	88.0	77.2	85.8	72.7	70.0	141.4	82.4	135.3	116.2
29-Jul	88.0	77.7	85.9	72.7	70.0	141.4	82.9	135.9	116.5
5-Aug	90.0	78.1	86.5	72.8	71.0	141.4	83.1	137.1	116.1
12-Aug	89.0	77.4	86.4	72.6	70.0	141.4	82.5	136.6	115.9
19-Aug	89.0	77.8	86.6	73.3	70.0	144.2	86.5	138.0	116.6
26-Aug	90.0	78.3	86.7	73.1	70.0	150.5	87.0	135.9	116.5
2-Sep	90.0	78.3	87.2	73.2	70.0	142.1	83.2	136.6	116.1
9-Sep	90.0	77.5	87.5	73.3	70.0	141.4	83.0	135.2	115.8
16-Sep	90.0	77.4	87.5	72.6	70.0	141.4	83.7	134.4	114.5
23-Sep	90.0	77.7	88.0	73.0	70.0	141.4	82.7	136.5	115.7
30-Sep	90.0	77.8	88.0	72.8	70.0	141.4	82.9	136.5	115.2
7-Oct	90.0	77.8	88.1	72.9	70.0	142.8	86.4	136.9	115.8
14-Oct	90.0	77.8	88.0	73.2	70.0	144.2	84.3	137.1	116.4
21-Oct	90.0	77.7	87.2	72.9	70.0	141.4	83.1	135.5	115.6
28-Oct	90.0	77.4	87.2	73.1	70.0	142.8	82.2	136.2	116.1
4-Nov	90.0	77.7	86.7	73.3	70.0	144.2	82.2	136.1	117.1
11-Nov	90.0	77.1	86.9	73.1	70.0	143.5	83.0	136.5	117.0
18-Nov	90.0	77.3	86.2	73.2	70.0	142.1	81.5	137.1	118.2
25-Nov	89.0	77.4	85.8	73.8	71.0	142.1	81.6	137.4	120.3
2-Dec	88.0	77.0	85.0	73.4	72.0	143.5	82.2	138.1	120.4
9-Dec	88.0	77.5	84.4	73.5	72.0	141.4	80.9	137.2	120.3
16-Dec	88.0	77.1	84.3	73.9	72.0	141.4	80.9	136.7	120.0
23-Dec	87.0	78.7	83.9	74.1	72.0	141.4	81.2	136.9	120.3
31-Dec	86.0	77.3	83.4	73.9	70.0	141.4	81.0	134.7	119.0

CAYENNE/ROCHAMBEAU FG WMO No. 814050



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	392	0
FEB	359	0
MAR	417	0
APR	425	0
MAY	416	0
JUN	391	0
JUL	413	0
AUG	439	0
SEP	419	0
OCT	431	0
NOV	423	0
DEC	387	0
ANN	4910	0

CAYENNE/ROCHAMBEAU FG WMO No. 814050



	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	2682	0	10745	0
FEB	2556	0	10002	0
MAR	3134	0	11670	0
APR	3525	0	12022	0
MAY	3238	0	13426	0
JUN	2874	0	12683	0
JUL	3290	0	11821	0
AUG	3858	0	12261	0
SEP	3995	0	10700	0
OCT	4126	0	10642	0
NOV	3701	0	11435	0
DEC	2954	0	12015	0
ANN	39933	0	139422	0

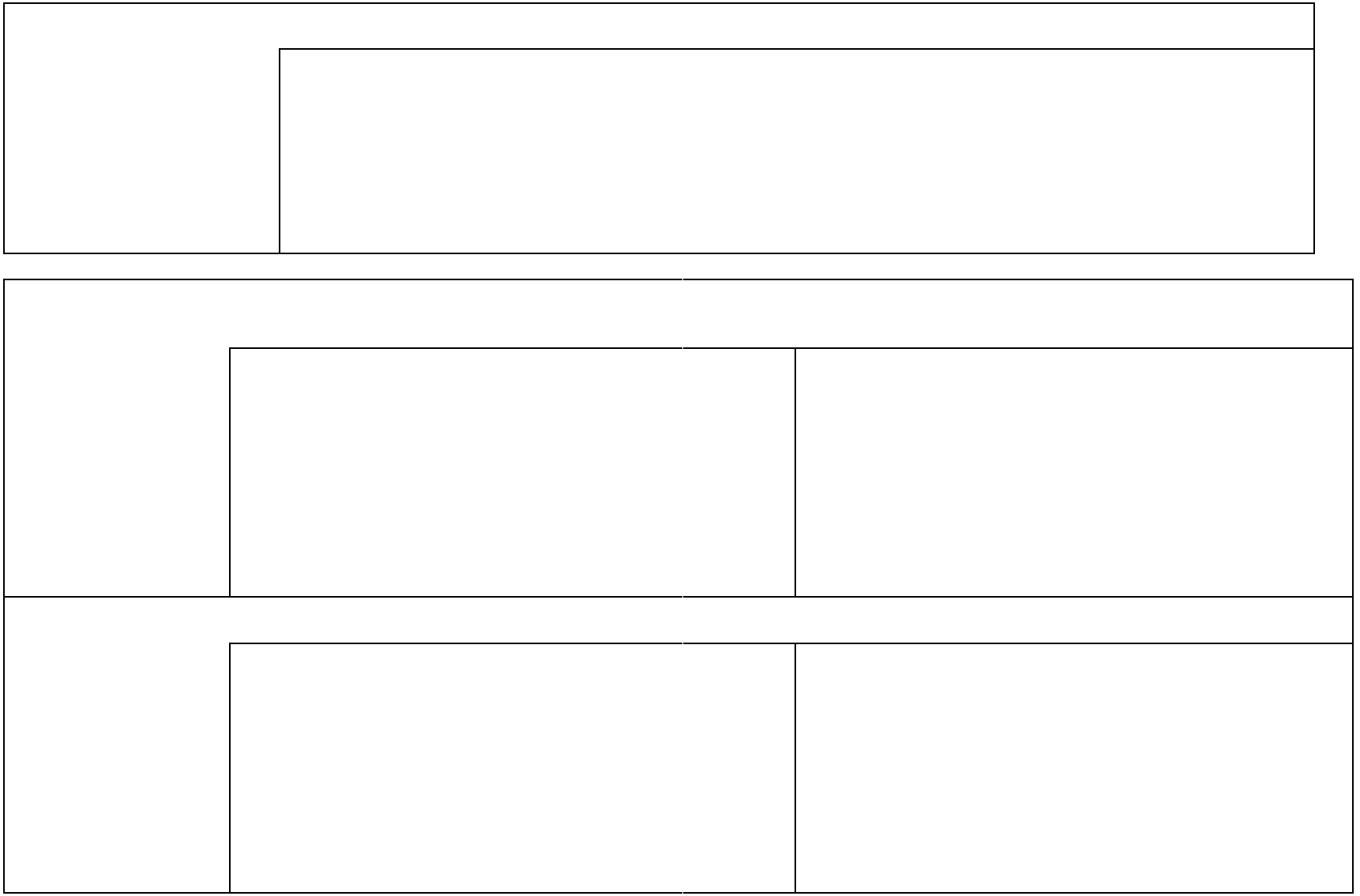
Average Annual Solar Radiation – Nearest Available Site

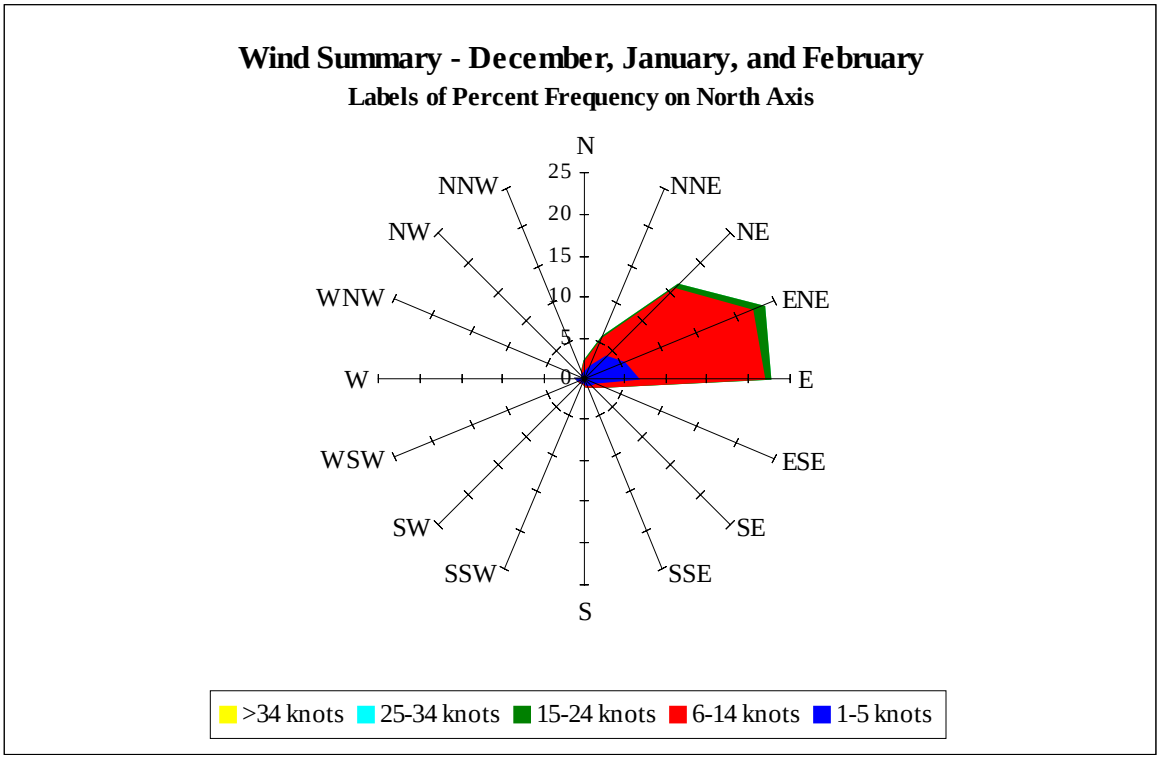
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

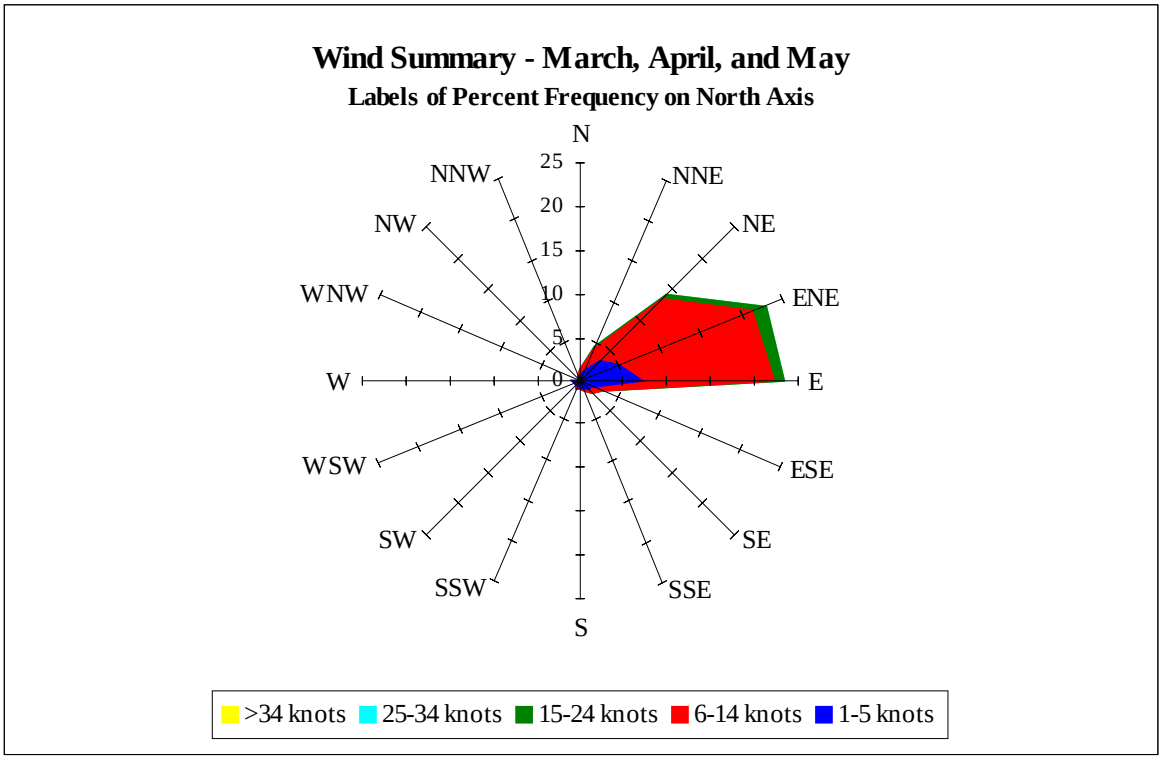
Average Annual Solar Heat and Illumination – Nearest Available Site

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

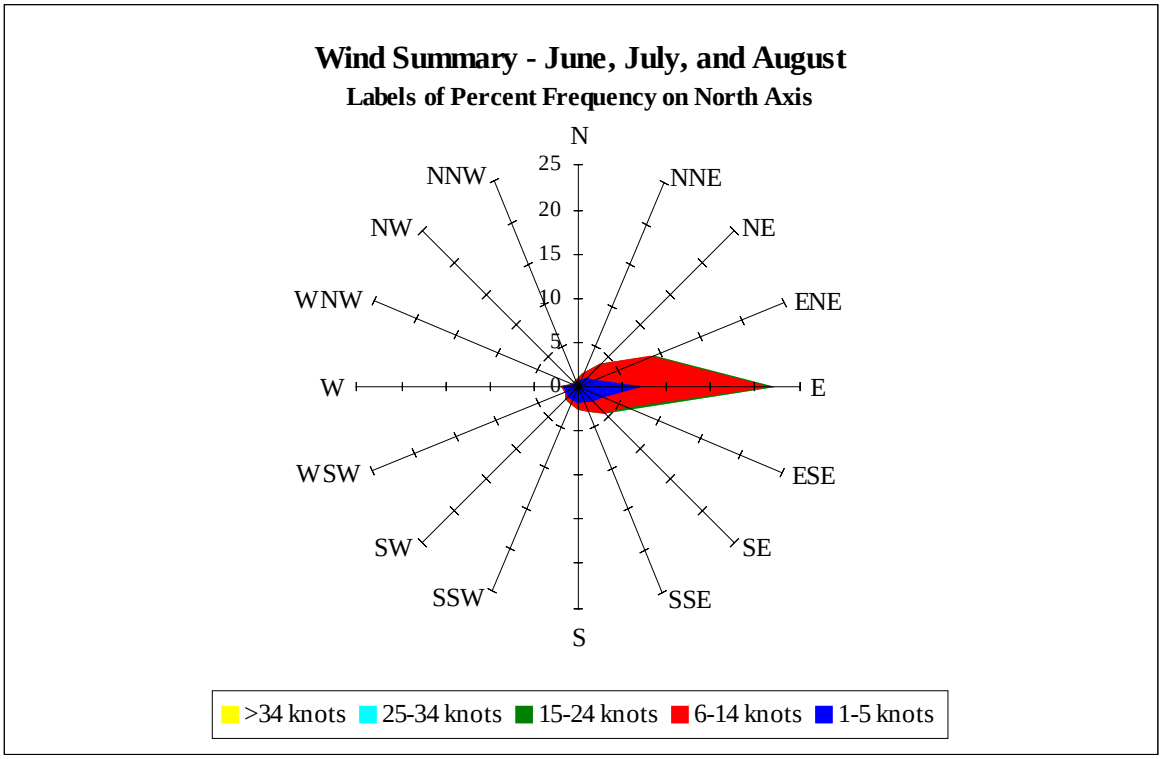




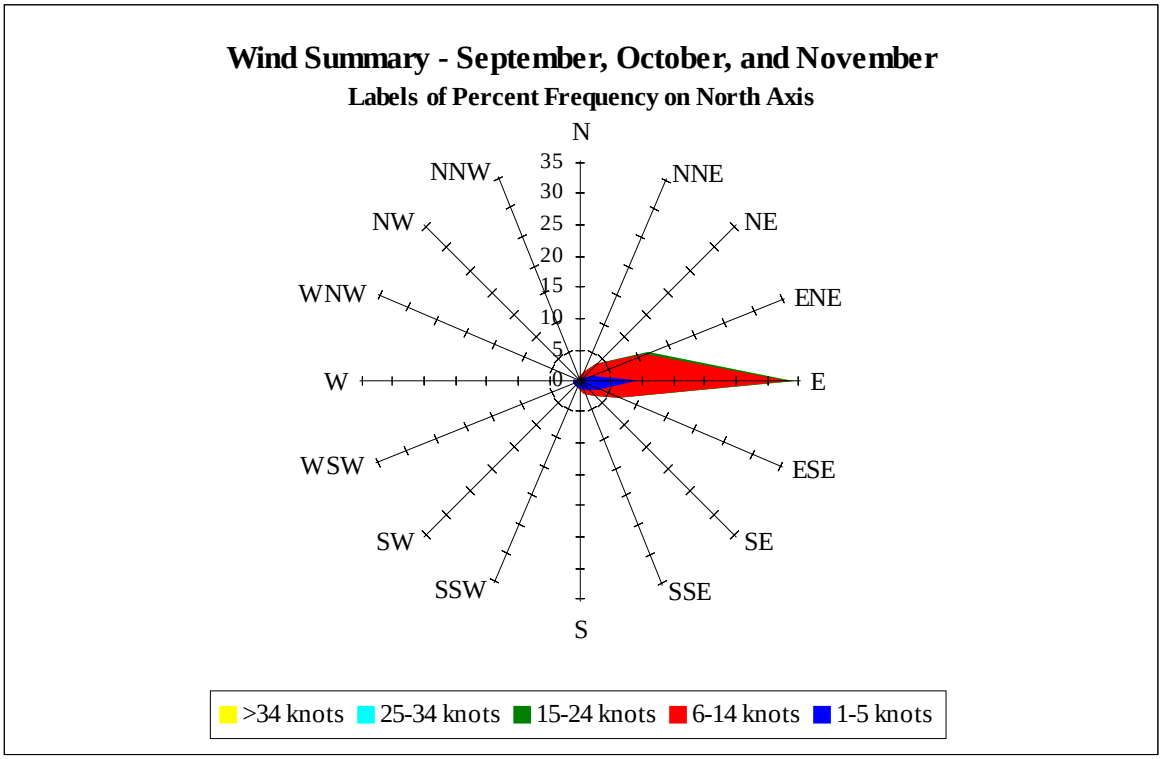
Percent Calm = 19.77



Percent Calm = 23.00



Percent Calm = 38.61



Percent Calm = 32.01