

TRINIDAD/ANIMAS CO. CO

Latitude = 37.27 N

WMO No. 724645

Longitude = 104.30 W

Elevation = 5761 feet

Period of Record = 1973 to 1996

Average Pressure = 24.29 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	98	62	43	9.9	W
0.4% Occurrence	93	61	49	10.5	W
1.0% Occurrence	90	61	50	9.9	S
2.0% Occurrence	88	60	51	9.8	S
Mean Daily Range	28	-	-	-	-
97.5% Occurrence	13	11	9	7.2	W
99.0% Occurrence	7	6	7	6.3	W
99.6% Occurrence	0	-1	4	6.6	W
Median of Extreme Lows	-12	-13	2	4.6	WNW
	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	69	84	105	8.9	E
0.4% Occurrence	65	84	82	8.6	E
1.0% Occurrence	64	83	78	8.7	E
2.0% Occurrence	63	81	75	9.1	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	111	75	0.60	7.4	W
0.4% Occurrence	95	68	0.52	7.1	E
1.0% Occurrence	88	69	0.49	7.7	W
2.0% Occurrence	85	67	0.47	6.9	W
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		43	690	0	17

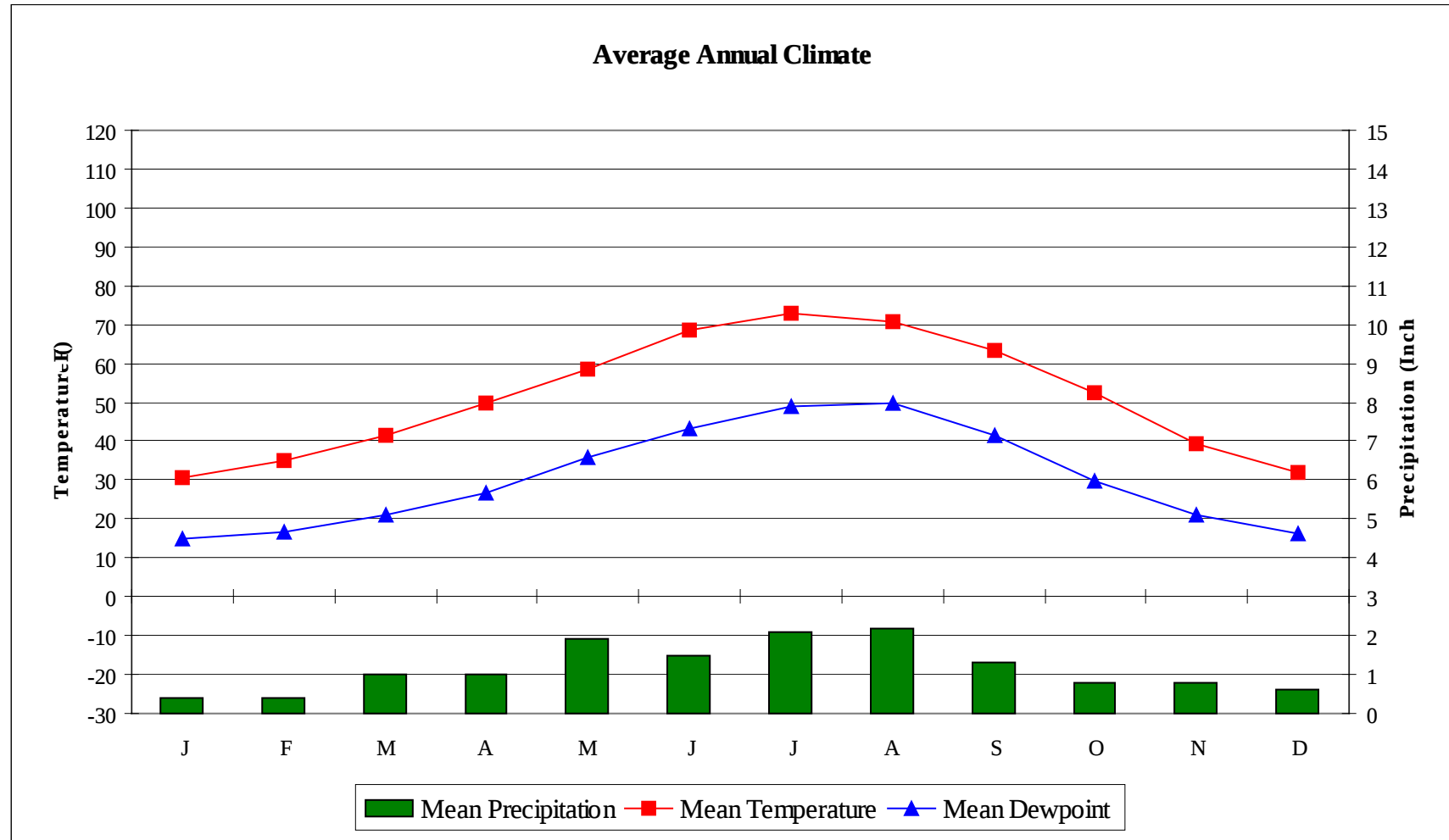
Other Site Data

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	2.5	N/A	0.0 + 0.7
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 (#)
53.7	38	7	125

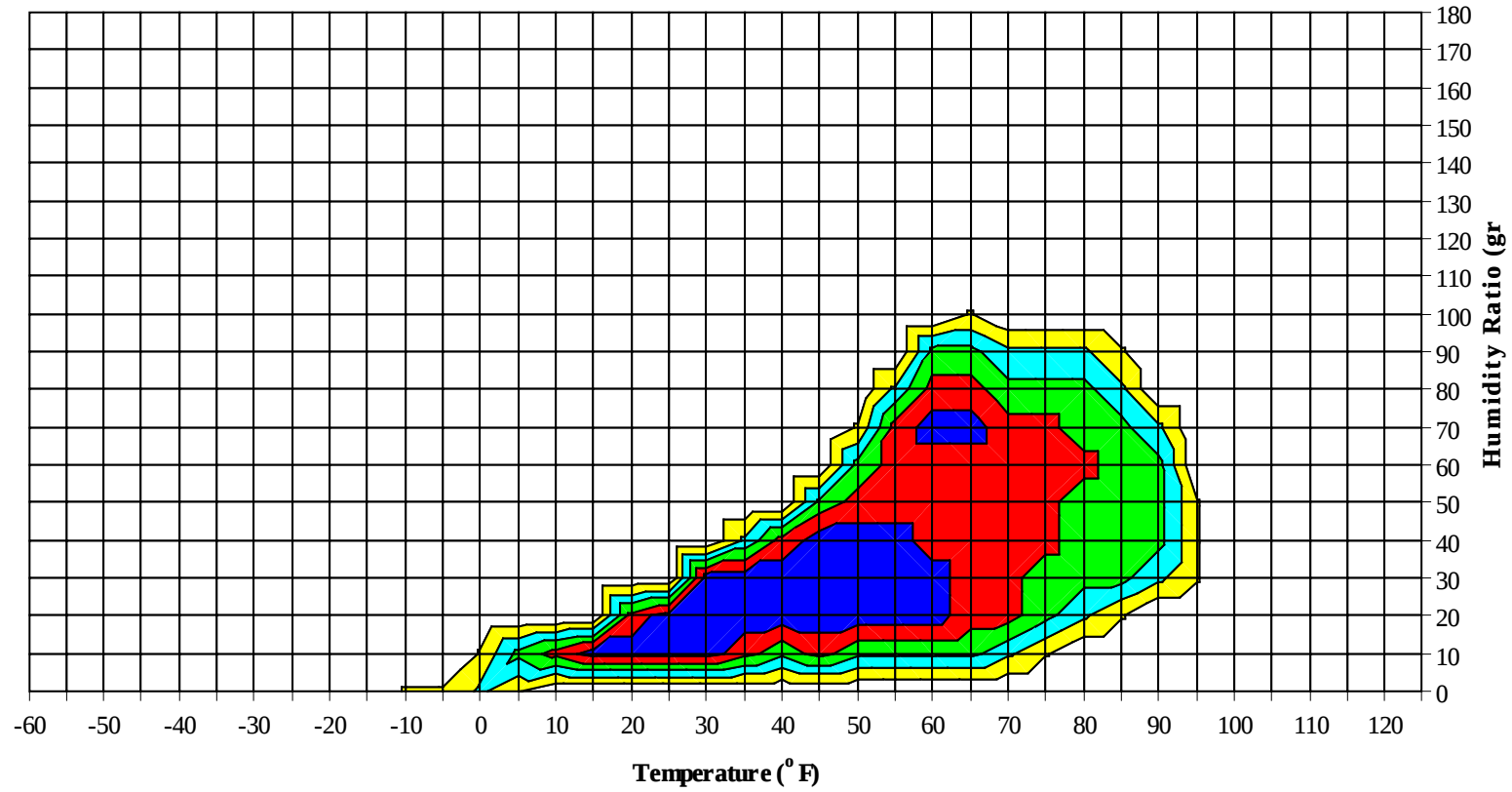
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

TRINIDAD/ANIMAS CO. CO

WMO No. 724645



Long Term Psychrometric Summary

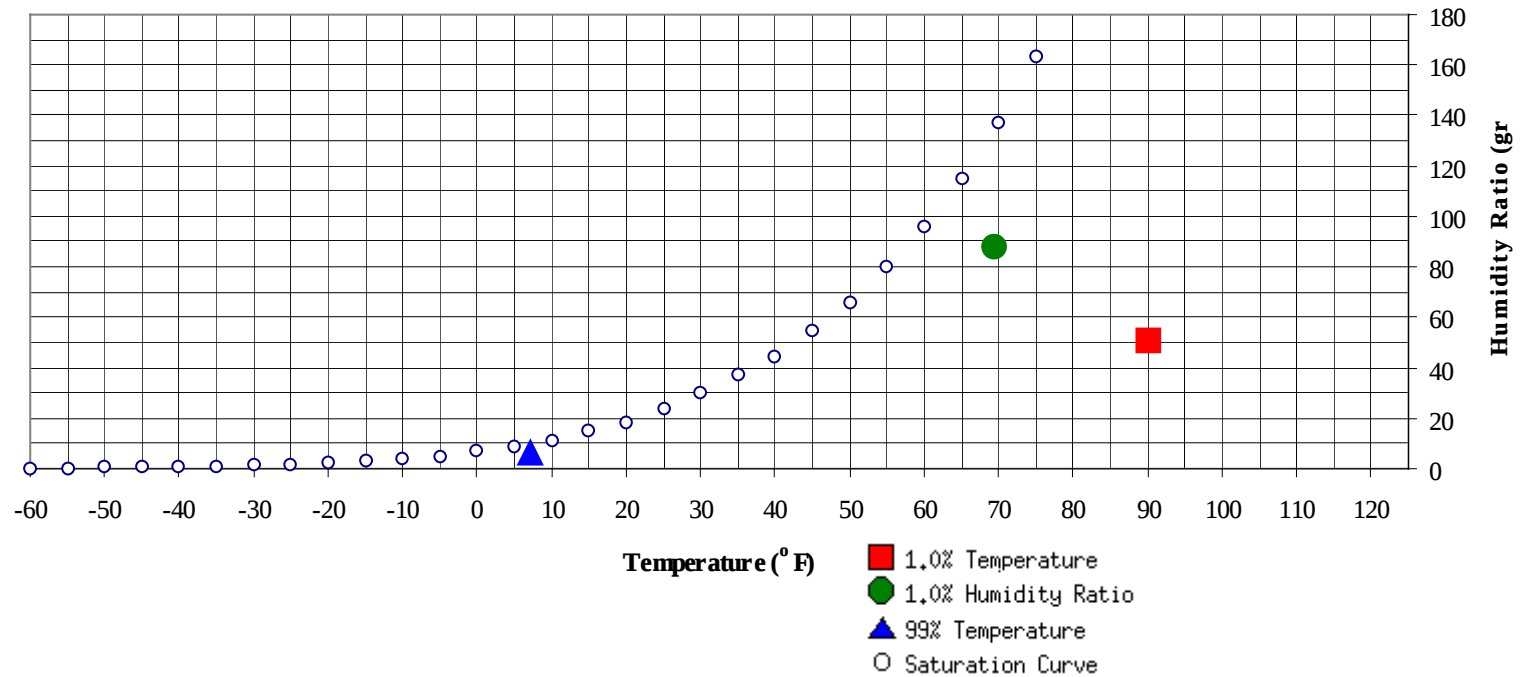


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

TRINIDAD/ANIMAS CO. CO

WMO No. 724645

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	7	6.6	2.7		88.2	69.3	61.7	57.9	30.4

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	90	50.4	60.6	29.5

TRINIDAD/ANIMAS CO. CO

WMO No. 724645

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		
100 / 104															
95 / 99															
90 / 94															
85 / 89						0			0	54.5					
80 / 84						0	0		0	51.0		1	0	1	51.3
75 / 79		0		0	46.2	0	1		1	48.2		3	0	3	48.5
70 / 74		1		1	45.8	0	2	0	2	46.1		12	2	14	46.2
65 / 69		4	0	4	43.9	0	9	1	10	44.5		26	5	30	44.5
60 / 64		10	1	10	42.2	0	22	3	25	42.0	0	31	9	40	42.6
55 / 59	0	19	2	21	40.0	0	28	7	35	40.0	3	35	20	58	40.5
50 / 54	1	29	5	35	37.7	2	28	12	42	37.8	9	35	25	69	38.5
45 / 49	2	34	12	48	35.2	6	31	21	58	35.3	19	31	35	85	36.3
40 / 44	8	33	24	65	32.7	13	25	31	70	32.8	32	22	40	94	33.9
35 / 39	20	30	38	88	30.2	26	22	35	84	30.2	42	20	37	100	31.5
30 / 34	39	30	43	111	27.2	41	20	37	98	27.5	53	18	38	109	28.8
25 / 29	50	24	40	113	23.6	50	16	30	96	24.0	45	9	22	76	24.9
20 / 24	46	15	33	94	19.5	37	8	21	66	20.0	25	4	9	38	20.1
15 / 19	33	11	21	65	15.1	20	5	11	36	15.4	10	2	4	16	15.5
10 / 14	21	6	13	41	10.5	11	3	6	20	10.6	5	1	3	9	10.8
5 / 9	17	3	9	29	5.9	6	1	3	10	5.6	3	0	1	3	6.2
0 / 4	6	1	5	12	1.1	5	1	3	9	0.8	0		0	0	2.6
-5 / -1	3	0	1	4	-3.0	3	1	1	4	-3.6					
-10 / -6	2		1	3	-7.8	2	0	1	3	-7.5					
-15 / -11	1		0	1	-11.3	1	0	0	1	-12.1					
-20 / -16	0			0	-15.5	0		0	0	-18.0					
-25 / -21						0		0	0	-21.5					

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.

TRINIDAD/ANIMAS CO. CO

WMO No. 724645

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		
100 / 104												1		1	62.0
95 / 99							0		0	58.0		5	1	7	60.5
90 / 94		0		0	57.0		1	0	1	55.8		22	4	26	59.6
85 / 89	0	1	0	1	53.4		9	2	11	54.4	0	42	11	53	58.9
80 / 84	0	6	1	7	52.7	0	22	5	28	54.0	2	47	17	66	58.0
75 / 79	0	20	3	23	50.3	1	45	14	60	53.0	7	46	27	81	57.2
70 / 74	0	31	9	40	48.5	2	45	18	66	51.9	15	34	37	86	55.7
65 / 69	1	38	15	54	47.0	10	39	28	76	50.5	34	21	48	103	54.1
60 / 64	5	33	22	60	45.1	20	30	41	91	48.9	55	12	44	112	52.2
55 / 59	14	31	31	75	42.9	40	23	45	108	47.0	60	7	31	98	50.2
50 / 54	25	25	38	89	40.8	58	15	42	115	45.3	43	3	14	60	47.3
45 / 49	42	20	38	100	38.5	55	9	30	93	42.3	17	1	4	22	43.7
40 / 44	46	13	31	90	35.9	36	5	16	57	38.4	4	0	1	6	40.5
35 / 39	43	10	24	76	32.6	16	3	5	24	34.4	1		0	1	36.0
30 / 34	35	7	17	59	29.3	9	1	3	14	31.1					
25 / 29	18	3	7	29	25.1	1		0	1	26.5					
20 / 24	7	1	3	11	20.5										
15 / 19	3	0	1	4	16.3										
10 / 14	1		0	1	11.3										
5 / 9	0			0	8.5										
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															

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.

TRINIDAD/ANIMAS CO. CO

WMO No. 724645

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		
100 / 104		0		0	63.4										
95 / 99		8	1	9	61.6		1		1	62.5		0		0	62.2
90 / 94		39	6	46	61.6		22	2	24	61.5		5	0	6	60.1
85 / 89	0	62	15	77	61.3		56	11	66	61.2		23	3	25	58.5
80 / 84	2	60	27	89	61.0	0	65	17	82	60.8	0	44	8	52	57.3
75 / 79	11	42	39	92	60.0	4	51	33	89	59.9	0	50	15	65	56.2
70 / 74	32	24	52	108	58.3	20	31	49	100	58.6	4	43	28	75	54.8
65 / 69	64	10	53	127	56.8	51	13	64	128	57.1	19	28	42	89	53.4
60 / 64	80	3	40	123	55.6	90	6	51	146	55.6	43	19	50	111	51.7
55 / 59	49	1	13	63	53.1	66	2	20	88	53.0	54	11	43	109	49.4
50 / 54	9	0	1	10	49.2	15	0	2	18	49.4	56	8	29	93	46.5
45 / 49	1		0	1	43.0	2	0	0	2	45.9	37	4	14	54	42.7
40 / 44	0			0	38.0						16	2	6	24	38.9
35 / 39											7	1	2	10	34.5
30 / 34											3	1	2	5	30.6
25 / 29											1	0	0	1	26.8
20 / 24											0			0	23.0
15 / 19											0			0	
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															

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.

TRINIDAD/ANIMAS CO. CO

WMO No. 724645

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		
100 / 104															
95 / 99															
90 / 94															
85 / 89		2		2	54.5										
80 / 84		13	1	13	53.1		0		0	49.3		0		0	52.0
75 / 79		31	3	34	52.0		5		5	49.7		0		0	50.7
70 / 74	0	42	7	49	50.3		12	0	12	48.0		2		2	48.1
65 / 69	1	40	15	55	48.3		22	1	24	46.0		6		6	46.0
60 / 64	6	35	26	67	46.5	0	26	4	31	43.6		15	0	15	43.5
55 / 59	19	29	38	86	44.4	2	26	12	40	41.6	0	21	2	23	40.7
50 / 54	32	21	49	102	42.2	8	29	21	58	39.2	2	27	7	36	38.3
45 / 49	55	13	44	113	39.4	16	30	28	75	36.7	6	33	14	54	35.6
40 / 44	54	8	30	92	36.3	28	23	36	88	34.1	12	32	25	69	32.9
35 / 39	39	7	19	65	32.8	41	20	38	99	31.2	27	31	40	98	30.3
30 / 34	27	4	10	41	29.3	49	21	37	107	28.3	40	28	43	111	27.4
25 / 29	10	1	4	16	25.3	44	13	32	90	24.4	51	20	43	114	23.7
20 / 24	2	0	2	4	20.5	26	5	16	47	20.2	42	13	28	83	19.7
15 / 19	1	1	0	2	15.7	15	3	8	26	15.5	27	9	19	56	15.1
10 / 14	0		0	1	11.1	6	1	4	11	11.1	19	5	12	36	10.5
5 / 9	0		0	0	5.7	3	1	1	5	6.2	11	3	7	20	5.8
0 / 4	0			0	3.0	1	0	1	2	1.8	4	1	3	9	0.9
-5 / -1						0	0	0	0	-1.9	2	1	2	5	-3.5
-10 / -6						0		0	0	-8.0	2	1	2	4	-7.8
-15 / -11						0		0	1	-11.6	1		1	2	-12.1
-20 / -16						0		0	0	-16.0	0			0	-18.2
-25 / -21															

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.

TRINIDAD/ANIMAS CO. CO

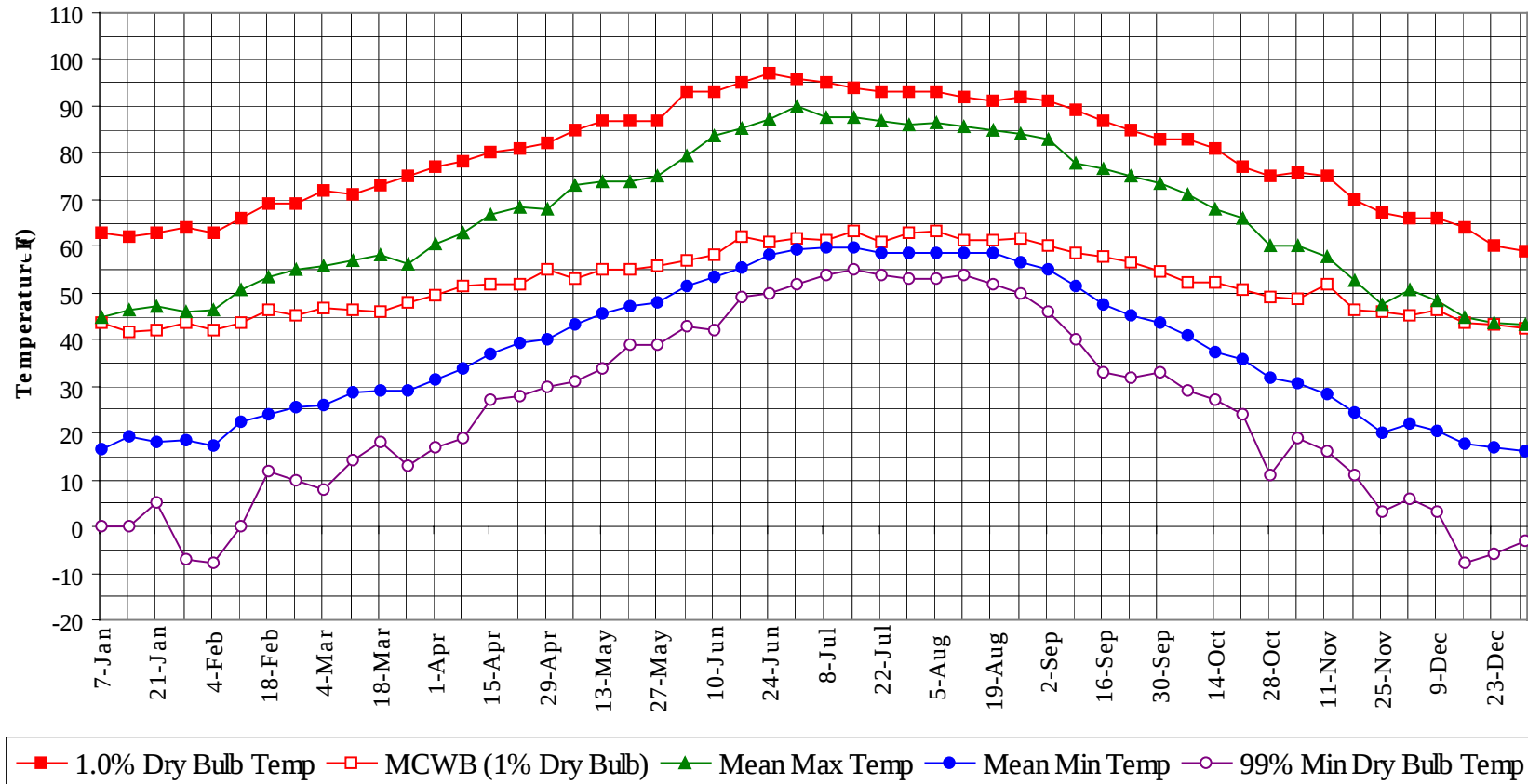
WMO No. 724645

Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1973 to 1996

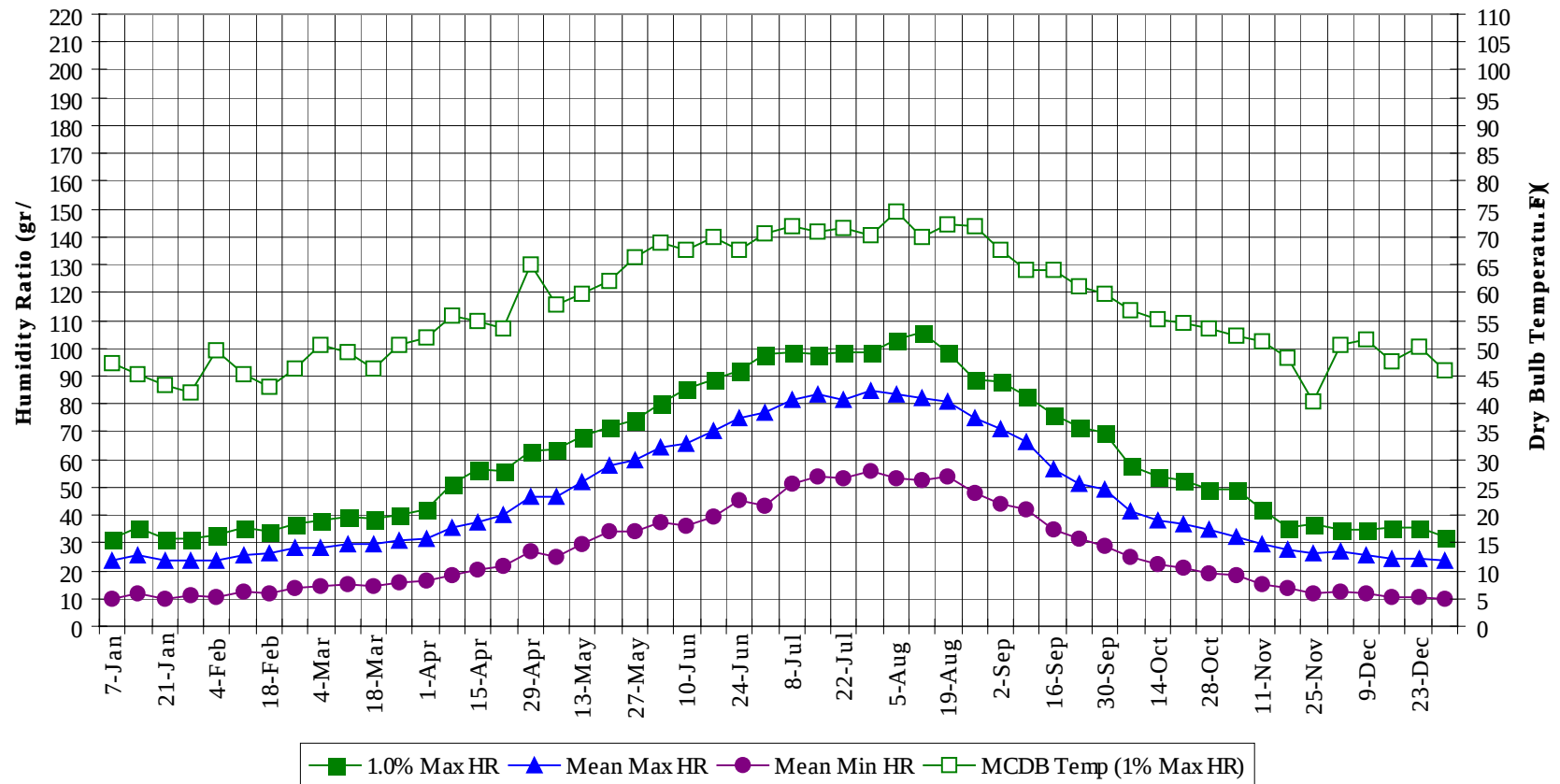
Annual Totals						
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	
	01 To 08	09 To 16	17 To 00			
100 / 104	1			1	62.5	
95 / 99	15			2	17	61.2
90 / 94	89			13	102	60.9
85 / 89	0	194	41	235	60.0	
80 / 84	4	257	77	337	58.7	
75 / 79	24	294	133	451	56.7	
70 / 74	73	277	202	552	54.7	
65 / 69	178	256	270	704	52.7	
60 / 64	297	242	291	830	50.5	
55 / 59	306	235	262	802	46.7	
50 / 54	260	220	245	726	42.5	
45 / 49	257	206	243	706	38.5	
40 / 44	250	165	240	655	34.8	
35 / 39	263	145	238	646	31.3	
30 / 34	297	129	230	657	28.1	
25 / 29	271	87	179	538	24.2	
20 / 24	185	47	113	344	19.8	
15 / 19	110	31	65	206	15.3	
10 / 14	65	16	39	120	10.6	
5 / 9	39	8	21	68	5.9	
0 / 4	17	4	11	32	1.0	
-5 / -1	7	1	5	14	-3.3	
-10 / -6	6	1	4	11	-7.7	
-15 / -11	3	0	2	5	-12.0	
-20 / -16	1		0	1	-17.4	
-25 / -21	0		0	0	-21.5	

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



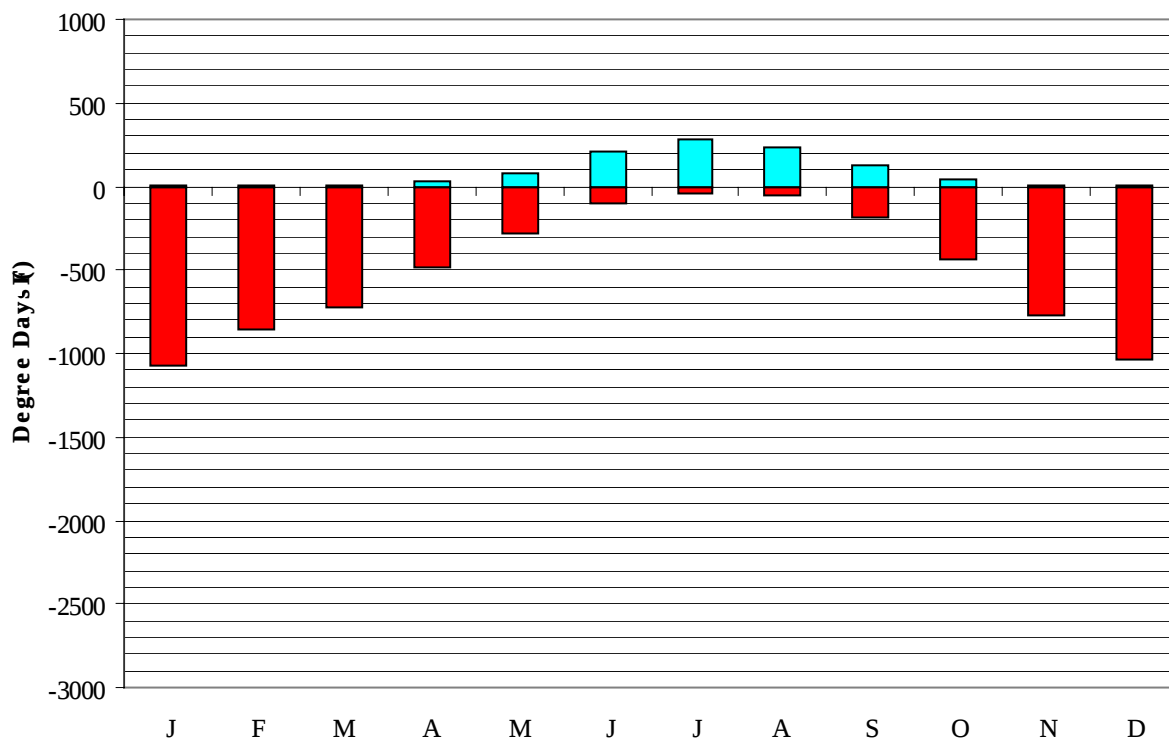
Long Term Humidity and Dry Bulb Temperature Summary



TRINIDAD/ANIMAS CO. CO**WMO No. 724645****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	63.0	43.5	44.7	16.6	0.0	31.5	47.3	23.5	10.1
14-Jan	62.0	41.8	46.5	19.2	0.0	35.7	45.2	25.3	11.7
21-Jan	63.0	41.9	47.0	18.2	5.0	31.5	43.4	23.4	10.1
28-Jan	64.0	43.5	46.1	18.7	-7.0	31.5	41.9	23.9	11.1
4-Feb	63.0	41.9	46.3	17.4	-8.0	32.9	49.6	23.8	10.6
11-Feb	66.0	43.6	50.9	22.5	0.0	35.7	45.4	25.5	12.2
18-Feb	69.0	46.3	53.4	23.9	12.0	34.3	43.2	26.5	12.1
25-Feb	69.0	45.1	55.0	25.7	10.0	37.1	46.5	28.0	13.5
4-Mar	72.0	46.9	55.8	26.1	8.0	37.8	50.5	28.5	14.5
11-Mar	71.0	46.5	56.8	28.6	14.0	39.2	49.2	29.9	14.9
18-Mar	73.0	46.1	58.0	28.9	18.0	38.5	46.3	29.4	14.2
25-Mar	75.0	48.1	56.2	29.2	13.0	39.9	50.5	30.7	15.7
1-Apr	77.0	49.6	60.4	31.3	17.0	42.0	51.8	31.3	16.6
8-Apr	78.0	51.4	62.8	33.7	19.0	51.1	55.8	35.2	18.5
15-Apr	80.0	51.8	66.9	37.0	27.0	56.7	54.9	37.5	20.3
22-Apr	81.0	51.7	68.3	39.5	28.0	56.0	53.6	39.8	21.4
29-Apr	82.0	55.2	67.9	40.2	30.0	63.0	65.1	46.5	27.0
6-May	85.0	52.9	72.9	43.4	31.0	63.7	57.8	46.9	24.6
13-May	87.0	55.1	74.0	45.6	34.0	68.6	59.8	51.7	29.2
20-May	87.0	55.2	74.1	47.1	39.0	71.4	62.1	57.6	34.0
27-May	87.0	55.9	75.2	48.0	39.0	74.2	66.5	59.8	34.4
3-Jun	93.0	57.0	79.2	51.3	43.0	79.8	69.0	64.1	37.2
10-Jun	93.0	58.3	83.7	53.6	42.0	85.4	67.8	65.8	36.2
17-Jun	95.0	61.9	85.3	55.4	49.0	88.9	70.0	70.5	39.4
24-Jun	97.0	60.9	87.2	58.1	50.0	91.7	67.6	74.8	45.3
1-Jul	96.0	61.6	89.8	59.5	52.0	98.0	70.5	76.6	43.2
8-Jul	95.0	61.2	87.6	59.7	54.0	98.7	72.0	81.7	51.1
15-Jul	94.0	63.4	87.7	59.8	55.0	98.0	70.8	83.2	54.0
22-Jul	93.0	61.0	86.8	58.7	54.0	98.7	71.7	81.4	53.0
29-Jul	93.0	62.7	86.0	58.7	53.0	98.7	70.3	85.0	55.8
5-Aug	93.0	63.4	86.3	58.5	53.0	102.9	74.6	83.1	53.2
12-Aug	92.0	61.1	85.6	58.6	54.0	105.7	69.8	81.9	52.4
19-Aug	91.0	61.5	85.0	58.4	52.0	98.7	72.1	80.5	53.8
26-Aug	92.0	61.7	84.1	56.4	50.0	88.9	71.8	74.8	47.8
2-Sep	91.0	59.9	83.0	55.0	46.0	88.2	67.7	70.7	44.0
9-Sep	89.0	58.5	77.9	51.3	40.0	82.6	64.1	66.2	41.8
16-Sep	87.0	57.7	76.8	47.4	33.0	76.3	64.2	56.5	34.8
23-Sep	85.0	56.5	75.1	45.0	32.0	71.4	61.2	51.3	31.7
30-Sep	83.0	54.8	73.6	43.5	33.0	69.3	59.8	49.0	29.0
7-Oct	83.0	52.1	71.2	40.8	29.0	58.1	56.8	41.6	24.8
14-Oct	81.0	52.1	68.1	37.5	27.0	53.9	55.3	38.4	22.2
21-Oct	77.0	50.8	65.9	35.9	24.0	52.5	54.5	37.1	20.9
28-Oct	75.0	49.1	60.2	31.7	11.0	49.0	53.6	34.7	19.0
4-Nov	76.0	48.8	60.1	30.5	19.0	49.0	52.3	32.1	18.2
11-Nov	75.0	51.8	57.8	28.5	16.0	42.0	51.1	29.5	15.3
18-Nov	70.0	46.4	52.8	24.4	11.0	35.7	48.2	27.8	14.0
25-Nov	67.0	46.0	47.4	20.2	3.0	37.1	40.5	26.4	11.7
2-Dec	66.0	45.2	50.5	22.1	6.0	35.0	50.5	26.6	12.8
9-Dec	66.0	46.3	48.5	20.5	3.0	35.0	51.6	25.5	11.6
16-Dec	64.0	43.5	45.0	17.8	-8.0	35.7	47.6	24.2	10.7
23-Dec	60.0	43.3	43.5	16.8	-6.0	35.7	50.2	24.0	10.6
31-Dec	59.0	42.5	43.3	16.1	-3.0	32.2	45.9	23.8	10.1

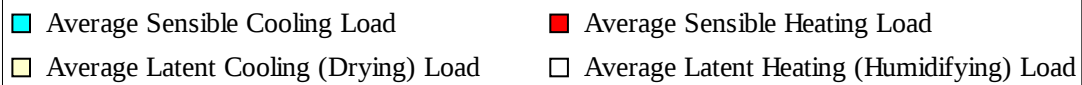
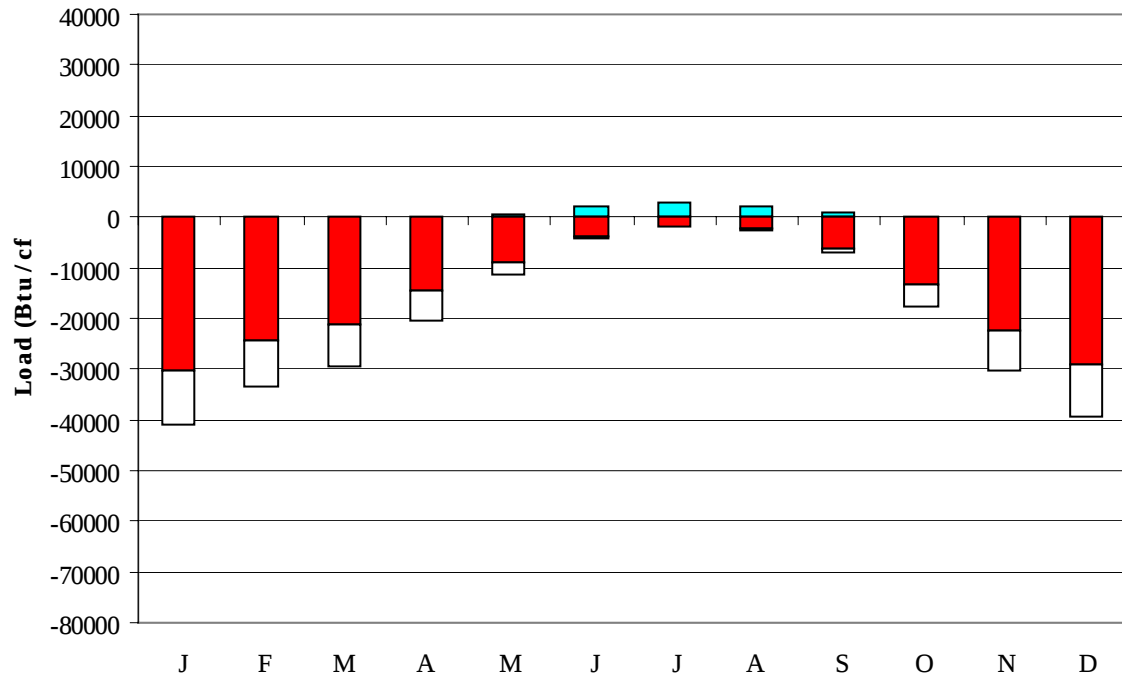
Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days
 ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1072
FEB	2	853
MAR	8	729
APR	32	487
MAY	83	281
JUN	204	98
JUL	282	39
AUG	229	55
SEP	125	181
OCT	45	436
NOV	7	773
DEC	1	1031
ANN	1019	6035

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



	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	-30185	0	-10769
FEB	3	-24274	0	-9193
MAR	8	-21207	0	-8280
APR	99	-14644	0	-5561
MAY	455	-9016	0	-2190
JUN	1920	-3647	5	-710
JUL	2820	-1806	34	-150
AUG	2045	-2394	56	-76
SEP	926	-6140	1	-828
OCT	176	-13285	0	-4354
NOV	9	-22265	0	-7975
DEC	1	-29110	0	-10276
ANN	8462	-177973	96	-60362

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

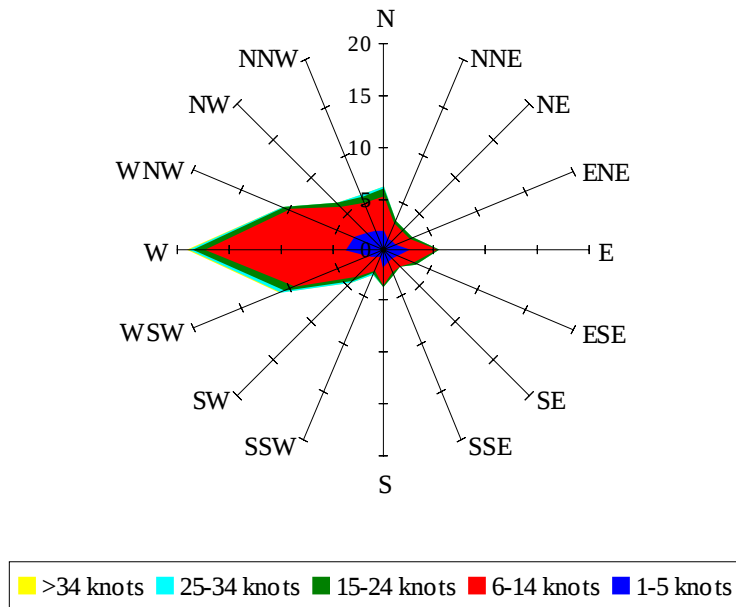
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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

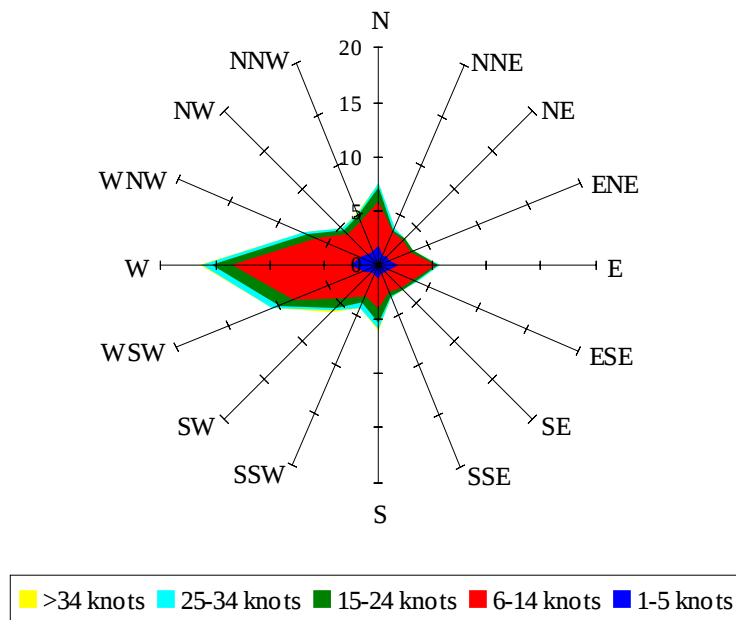
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	33	72	89	81	49	19	47	51	32	2
	M.Cloudy	21	50	65	58	34	13	33	37	23	2
NORTH	M.Clear	8	13	15	14	11	6	10	11	8	1
	M.Cloudy	8	15	18	16	12	5	11	12	8	1
EAST	M.Clear	79	72	26	14	11	53	41	11	8	1
	M.Cloudy	31	44	24	16	12	21	25	12	8	1
SOUTH	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 = 9.74

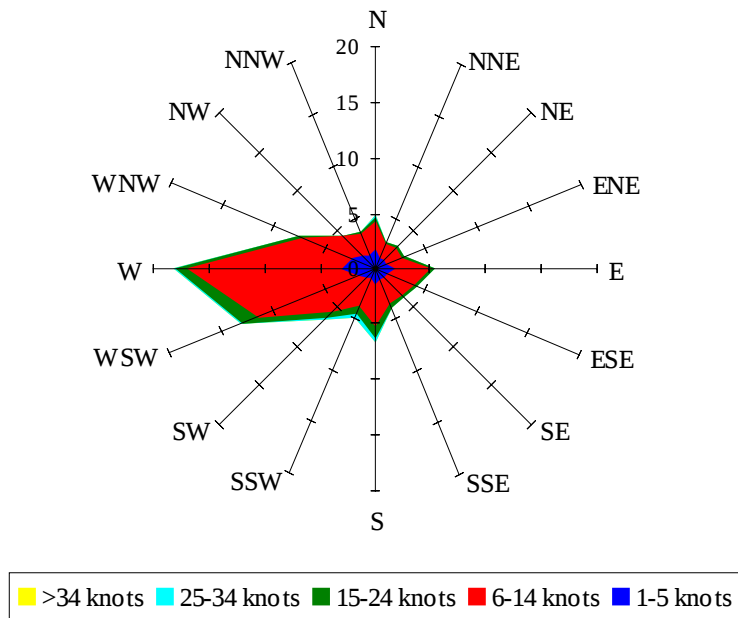
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 6.82

Wind Summary - June, July, and August

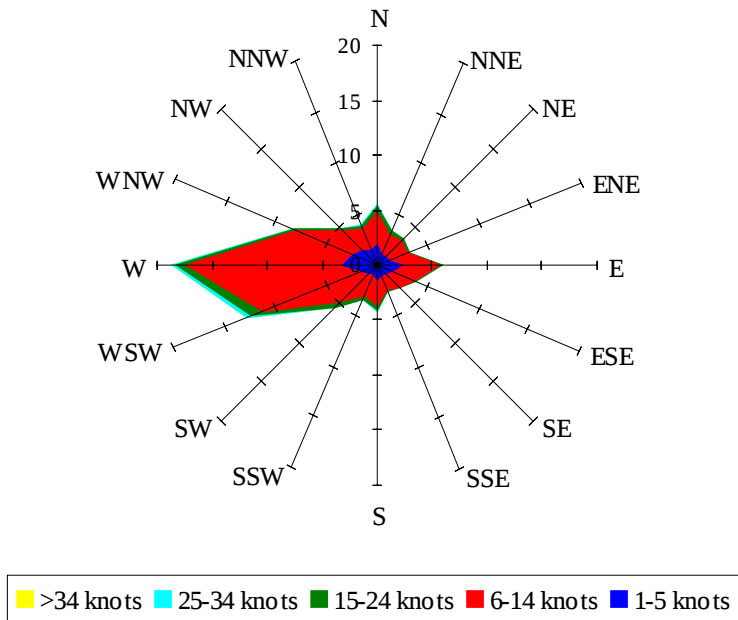
Labels of Percent Frequency on North Axis



Percent Calm = 7.13

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 8.60