

FT.GREELY/ALLEN AAF AK

Latitude = 64.00 N

Longitude = 145.70 W

Period of Record = 1973 to 1996

WMO No. 702670

Elevation = 1283 feet

Average Pressure = 28.41 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	84	62	50	7.2	E
0.4% Occurrence	78	59	47	7.4	N
1.0% Occurrence	75	58	47	7.8	E
2.0% Occurrence	71	56	46	8.7	S
Mean Daily Range	16	-	-	-	-
97.5% Occurrence	-25	-25	1	6.0	ESE
99.0% Occurrence	-34	-34	1	2.9	S
99.6% Occurrence	-41	-41	0	2.0	S
Median of Extreme Lows	-45	-45	0	2.0	S
	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	64	75	73	6.9	W
0.4% Occurrence	61	73	62	6.4	N
1.0% Occurrence	59	70	58	6.5	E
2.0% Occurrence	58	69	56	6.5	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	74	66	0.47	6.7	SW
0.4% Occurrence	71	65	0.45	6.4	W
1.0% Occurrence	65	63	0.42	5.9	W
2.0% Occurrence	61	61	0.39	5.7	WSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		0	23	0	4

Other Site Data

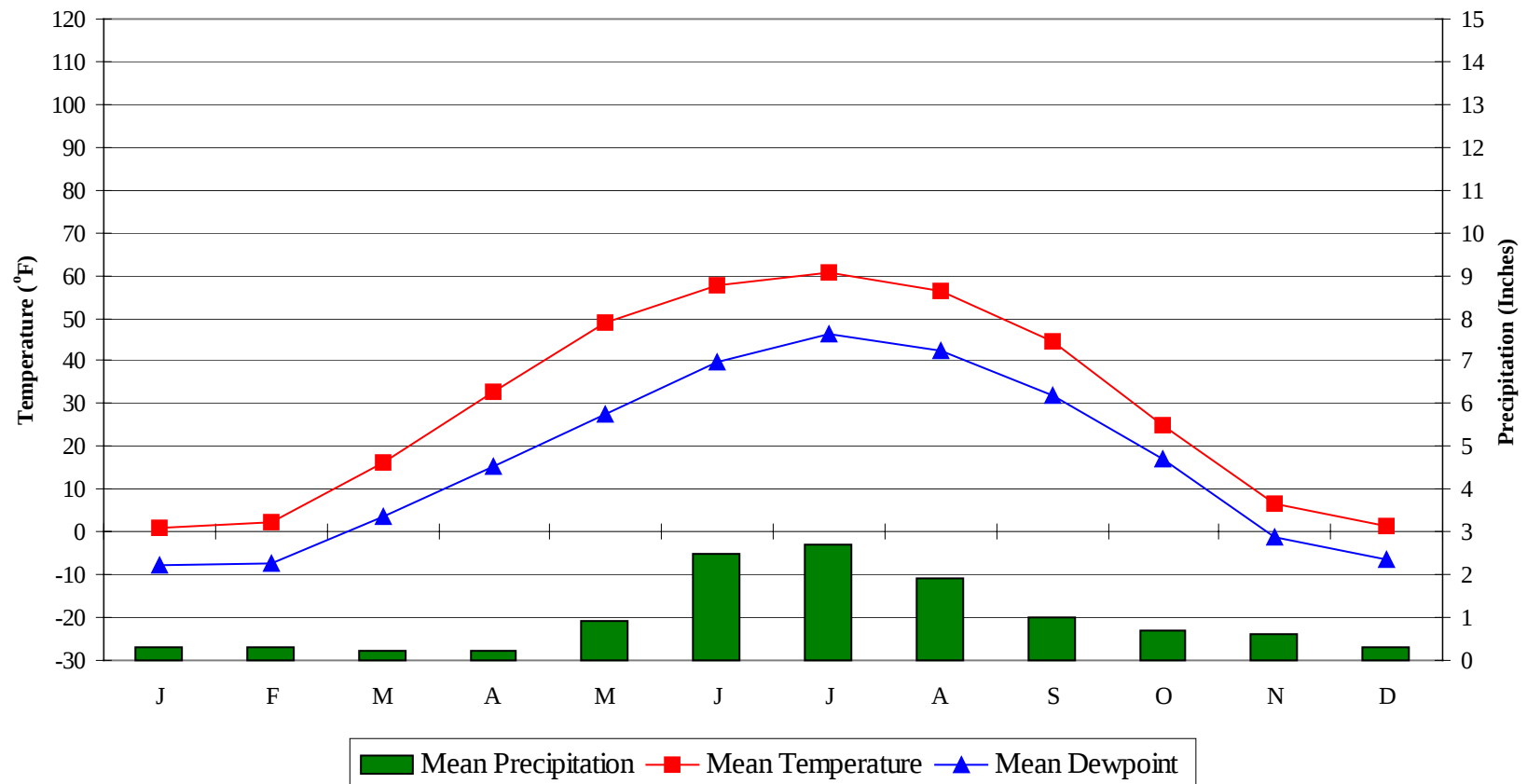
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
2	1.1	90	0.0 + 0.0
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
Permafrost	Permafrost	N/A	54

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

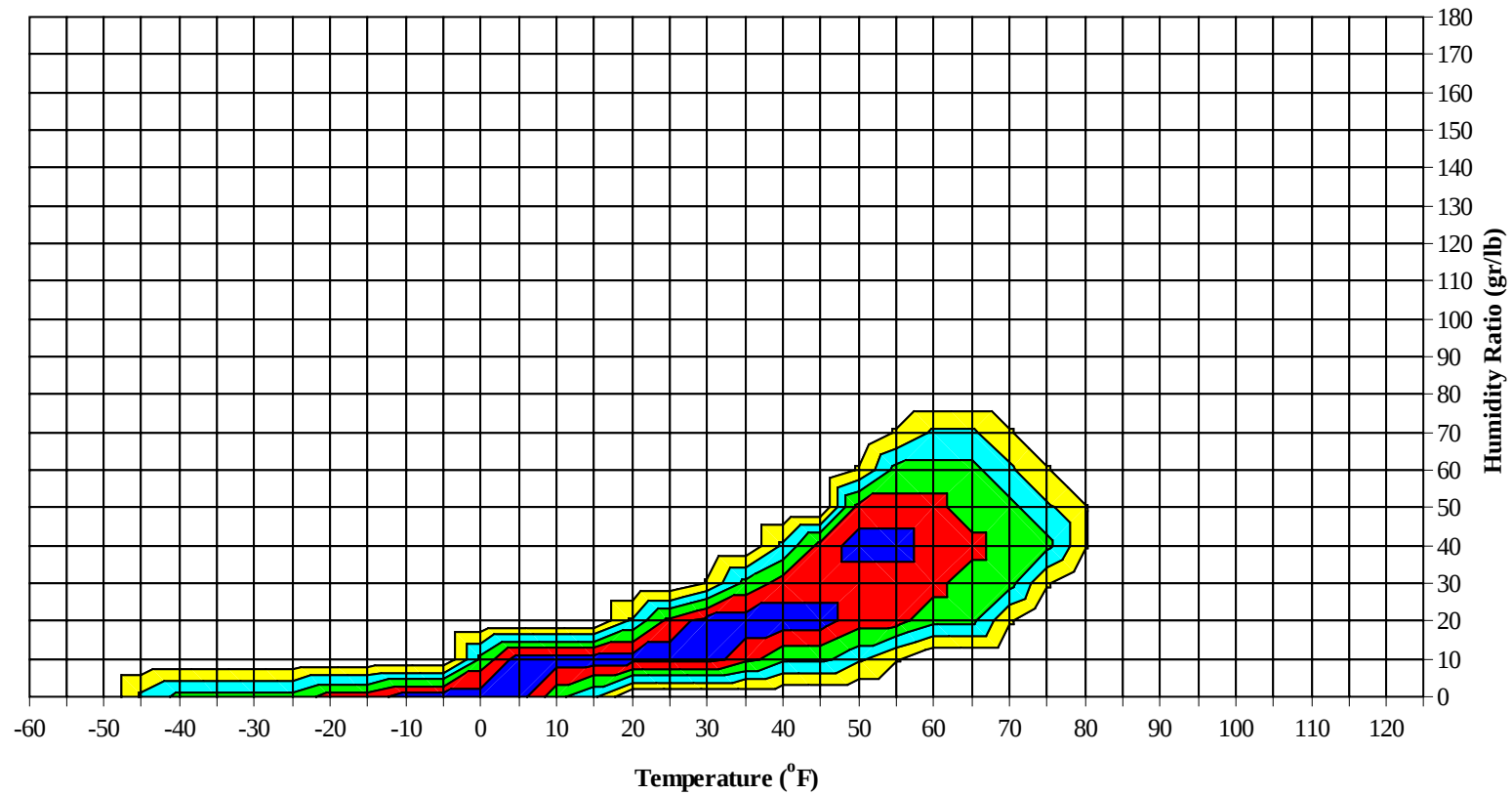
FT.GREELY/ALLEN AAF AK

WMO No. 702670

Average Annual Climate

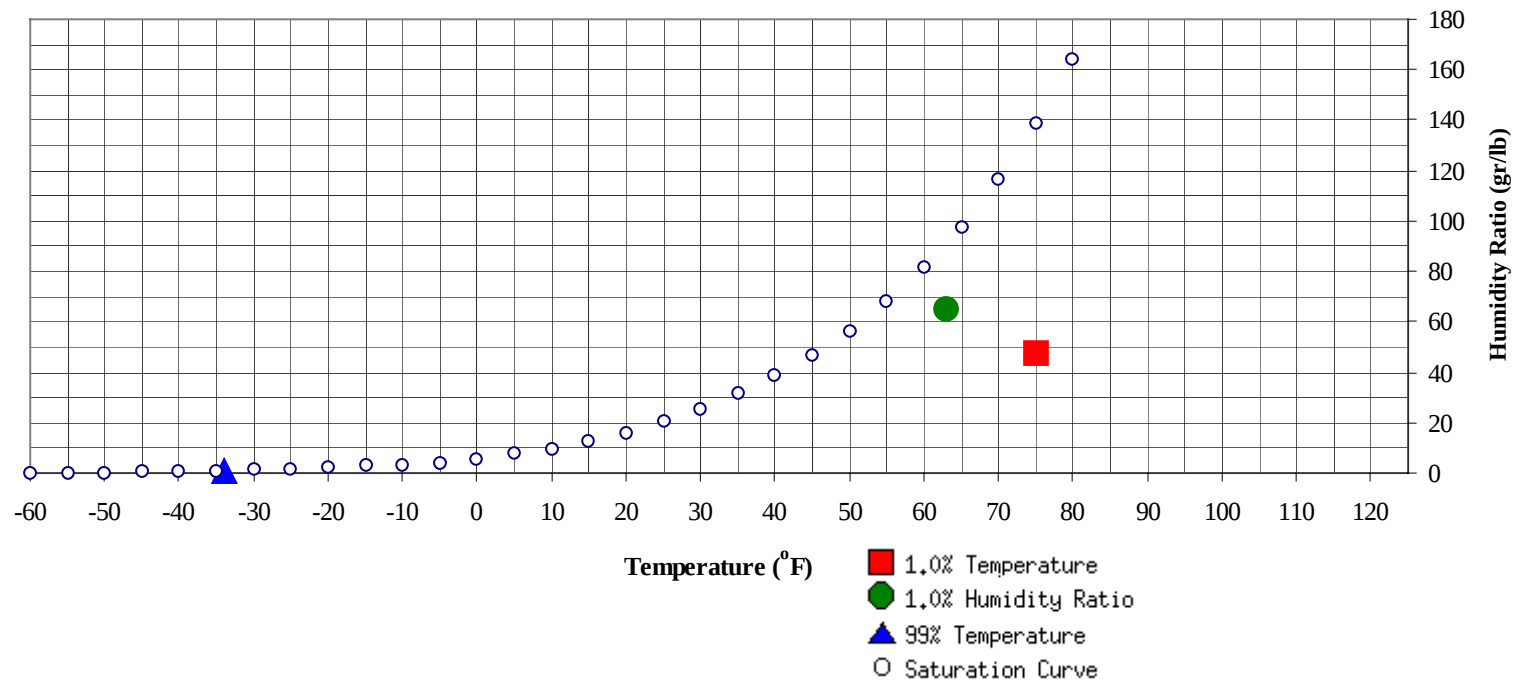


Long Term Psychrometric Summary



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

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)
	-34	0.7	-8.1		65.1	63	57.5	54	25.2

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	75	47.8	57.9	25.5

FT.GREELY/ALLEN AAF AK

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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		
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64															
55 / 59												0	0	0	38.3
50 / 54												0	0	0	35.7
45 / 49	1	1	1	3	37.6	0	1	0	1	36.2	0	4	1	5	35.6
40 / 44	2	2	1	5	33.9	2	3	2	7	32.5	1	14	9	24	33.0
35 / 39	3	3	3	9	30.4	6	5	5	16	30.1	9	24	23	56	30.1
30 / 34	6	5	8	18	27.4	7	11	9	27	27.0	14	27	28	69	26.6
25 / 29	9	11	10	30	23.5	14	16	18	49	23.4	25	32	33	91	23.0
20 / 24	18	19	18	55	19.6	16	19	18	53	19.3	24	33	31	88	18.8
15 / 19	20	22	22	65	14.9	21	20	21	62	15.0	30	29	31	89	14.6
10 / 14	26	22	26	74	10.5	18	18	17	53	10.5	28	26	28	81	10.1
5 / 9	26	30	25	82	5.7	13	15	18	46	5.6	27	23	23	72	5.7
0 / 4	33	32	32	97	0.7	18	19	19	56	0.5	31	16	18	65	0.8
-5 / -1	17	18	18	53	-3.3	13	16	15	45	-3.5	14	8	8	31	-3.4
-10 / -6	21	17	17	54	-7.8	19	21	19	59	-7.8	16	7	8	30	-7.5
-15 / -11	15	14	16	44	-12.5	14	16	18	49	-12.5	11	3	4	18	-12.3
-20 / -16	13	16	12	41	-17.2	14	13	13	40	-17.2	7	2	3	11	-17.0
-25 / -21	8	9	12	29	-22.0	16	13	13	41	-21.9	3	1	1	5	-22.0
-30 / -26	9	8	9	26	-27.0	12	6	11	30	-26.9	4	1	1	6	-26.9
-35 / -31	7	7	8	22	-32.1	9	5	5	18	-31.7	3	0	0	3	-32.0
-40 / -36	4	5	4	13	-36.8	6	3	3	11	-37.0	0	0		0	-36.5
-45 / -41	6	4	4	13	-41.7	4	2	1	7	-41.8	0			0	-40.0
-50 / -46	3	3	3	9	-46.8	1	1	1	3	-46.3					
-55 / -51	1	1	1	3	-51.8	0	0		0						
-60 / -56	0	0	0	0	-56.3										

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.

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		
85 / 89								0	0	60.0		0	0	0	59.7
80 / 84							0	0	0	57.0	0	2	2	4	58.4
75 / 79							1	1	2	54.8	0	11	7	18	56.3
70 / 74		0	0	0	50.4		6	3	9	52.8	1	26	16	43	54.8
65 / 69		1	0	1	47.1	0	17	10	27	49.2	4	46	35	85	52.8
60 / 64	0	2	1	3	44.7	2	39	25	66	46.6	15	57	49	121	50.5
55 / 59	0	9	5	14	41.9	12	59	43	113	44.1	47	49	57	153	48.6
50 / 54	1	22	13	36	39.4	30	54	58	142	41.6	77	32	46	155	46.4
45 / 49	5	39	29	73	36.4	52	38	48	138	39.1	68	14	24	105	43.2
40 / 44	18	47	43	108	33.6	60	19	33	112	36.3	24	3	4	30	39.2
35 / 39	31	35	44	110	30.7	51	10	18	80	32.7	3	0	1	4	34.7
30 / 34	50	28	39	116	27.5	30	5	7	42	28.7	1	0	0	1	30.9
25 / 29	42	21	28	90	23.6	10	1	2	13	24.2	0		0	0	
20 / 24	30	15	16	61	19.1	1	0	0	1	18.3					
15 / 19	19	8	9	37	14.8	1		0	1	13.9					
10 / 14	15	6	6	27	10.2	0			0	10.7					
5 / 9	9	4	4	16	5.6										
0 / 4	9	2	3	13	0.7										
-5 / -1	4	1	1	6	-3.5										
-10 / -6	3	0	1	4	-7.7										
-15 / -11	1		0	1	-12.1										
-20 / -16	1		0	1	-17.5										
-25 / -21	0			0	-22.0										
-30 / -26	0			0	-26.3										
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															
-60 / -56															

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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		
85 / 89		1	1	2	62.8		1	1	2	64.2					
80 / 84		5	4	9	61.0		4	2	6	61.8					
75 / 79		18	12	30	59.2		7	5	12	59.8	0			0	
70 / 74	0	44	28	72	57.4	0	21	14	35	56.9	0	1	1	2	54.1
65 / 69	8	61	45	113	55.5	8	40	32	79	54.4	1	6	4	12	52.8
60 / 64	31	58	60	149	53.7	21	53	47	121	52.0	2	22	12	36	49.6
55 / 59	83	41	61	185	51.6	37	51	53	141	50.0	10	44	31	85	46.5
50 / 54	90	18	31	139	48.8	63	41	51	156	47.6	22	43	45	110	43.9
45 / 49	31	3	6	40	44.8	69	21	28	118	44.1	39	39	45	123	41.6
40 / 44	5	0	0	5	40.6	31	6	9	46	39.6	53	33	37	123	38.3
35 / 39	0			0	35.9	14	3	3	20	34.8	42	25	29	96	34.0
30 / 34	0			0	32.0	4	1	1	6	30.5	43	17	22	82	29.9
25 / 29						1		0	1	24.9	17	4	7	28	25.4
20 / 24											4	4	3	11	20.1
15 / 19											4	2	3	9	15.7
10 / 14											1	0	0	1	11.7
5 / 9											1		0	1	6.3
0 / 4											1		0	1	1.9
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															
-60 / -56															

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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		
85 / 89															
80 / 84															
75 / 79															
70 / 74															
65 / 69															
60 / 64		0		0	47.3										
55 / 59	0	2	1	3	44.8								0	0	39.3
50 / 54	3	7	4	14	41.6	0	0	0	0	41.0	0	0	1	1	38.2
45 / 49	9	12	11	32	38.3	1	1	1	3	38.2	0	0	0	0	37.4
40 / 44	11	17	14	42	35.7	2	3	2	7	34.6	2	3	2	7	33.9
35 / 39	17	27	25	69	32.7	3	4	4	11	31.7	3	4	3	10	30.7
30 / 34	37	37	38	112	29.2	7	6	6	18	28.5	5	4	4	12	28.0
25 / 29	38	41	43	122	24.7	9	10	10	29	24.2	7	6	8	21	23.4
20 / 24	44	40	42	125	20.6	18	22	21	61	19.9	15	16	15	45	19.5
15 / 19	35	29	26	90	15.9	35	32	30	97	15.3	25	22	21	69	15.1
10 / 14	19	17	18	53	11.0	31	31	31	94	10.9	24	29	26	80	10.4
5 / 9	13	8	11	32	6.3	26	29	32	87	6.0	27	31	33	92	5.9
0 / 4	11	7	7	24	1.2	34	36	30	100	0.8	31	29	33	93	0.9
-5 / -1	3	3	4	10	-3.0	17	18	20	54	-3.0	22	23	18	63	-3.5
-10 / -6	3	2	3	8	-7.6	18	15	20	52	-7.7	25	28	26	80	-7.6
-15 / -11	2	1	1	4	-11.9	13	15	14	42	-12.2	16	15	16	46	-12.2
-20 / -16	2	0	1	3	-17.2	10	9	9	28	-17.0	11	13	14	38	-17.3
-25 / -21	0	0	0	0	-21.2	7	5	7	18	-21.8	10	7	10	27	-22.0
-30 / -26	0	0	0	0	-27.5	4	4	2	10	-26.7	9	5	6	20	-26.9
-35 / -31						2	1	2	5	-32.0	6	7	5	18	-32.1
-40 / -36						1	1	0	2	-36.7	5	3	5	12	-36.9
-45 / -41						1	0	0	1	-40.3	5	3	3	10	-41.7
-50 / -46						0	0		0	-45.7	0	0	0	0	-45.5
-55 / -51											0	0		0	
-60 / -56															

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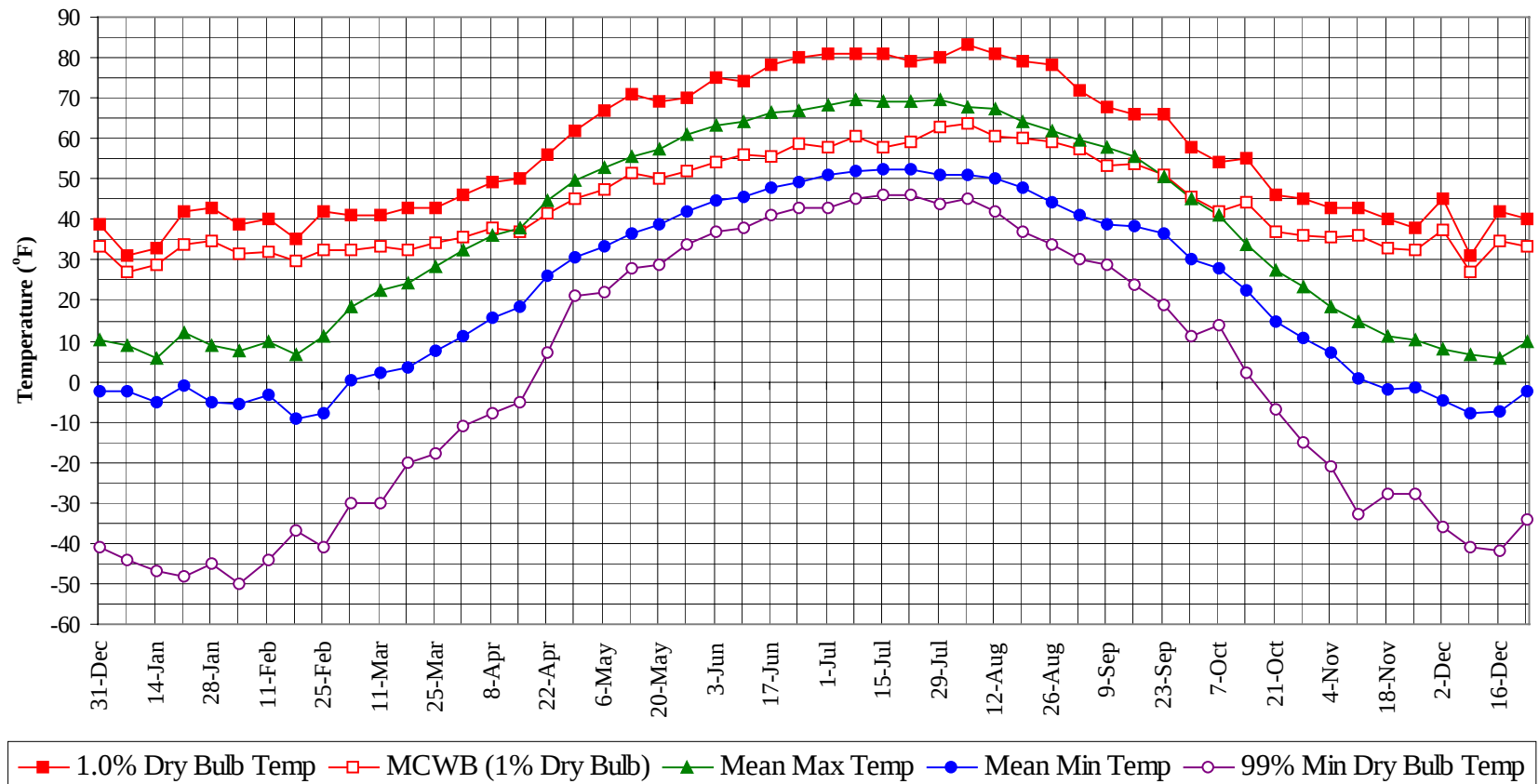
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

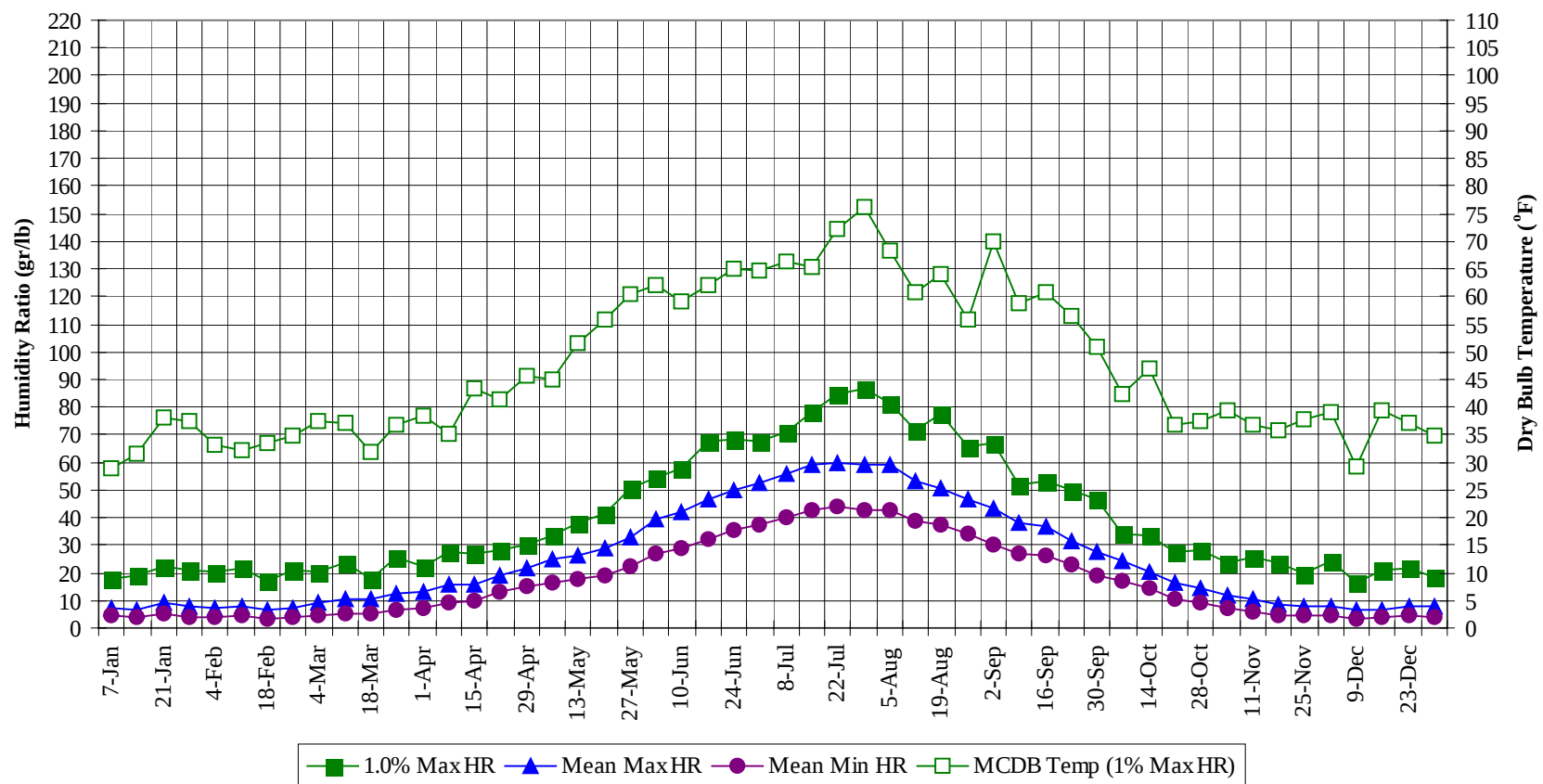
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
85 / 89		2	2	4	62.9
80 / 84	0	11	8	19	60.6
75 / 79	0	37	25	62	58.4
70 / 74	1	99	64	164	56.3
65 / 69	21	172	128	320	53.8
60 / 64	74	233	196	503	51.2
55 / 59	195	256	252	703	48.5
50 / 54	295	219	249	763	45.3
45 / 49	281	172	194	646	41.1
40 / 44	219	148	155	522	36.3
35 / 39	188	140	158	486	32.1
30 / 34	205	140	161	506	28.3
25 / 29	173	143	159	474	23.9
20 / 24	167	167	164	498	19.6
15 / 19	186	163	162	511	15.1
10 / 14	156	147	152	456	10.5
5 / 9	138	139	146	423	5.9
0 / 4	163	140	140	443	0.8
-5 / -1	89	84	83	256	-3.3
-10 / -6	101	89	91	281	-7.7
-15 / -11	71	63	69	203	-12.3
-20 / -16	56	53	50	158	-17.2
-25 / -21	43	35	42	120	-21.9
-30 / -26	38	23	29	90	-26.9
-35 / -31	26	20	19	66	-32.0
-40 / -36	16	11	12	39	-36.9
-45 / -41	14	8	8	31	-41.7
-50 / -46	3	3	3	9	-46.7
-55 / -51	2	1	1	4	-51.8
-60 / -56	0	0	0	0	-56.3

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

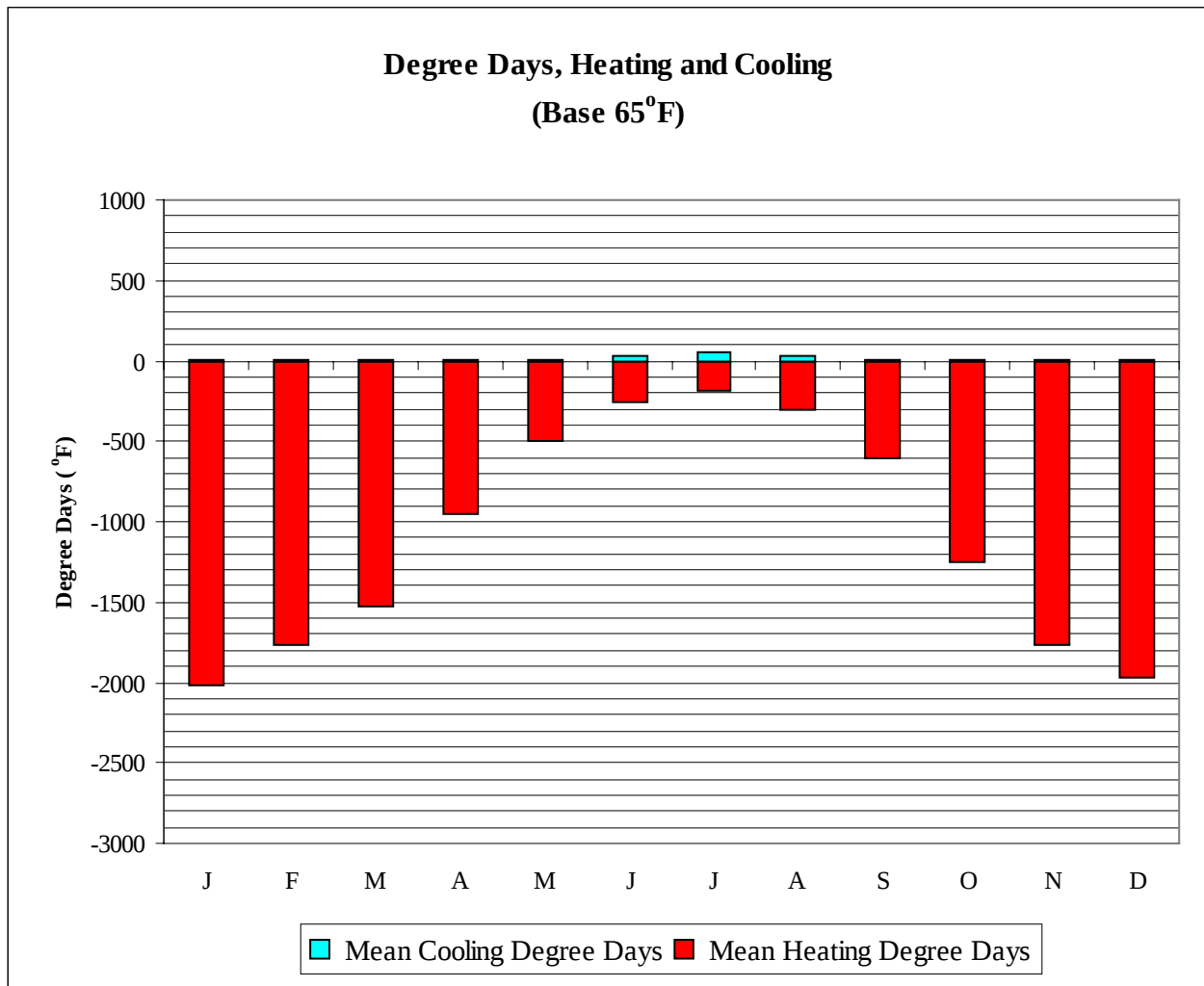


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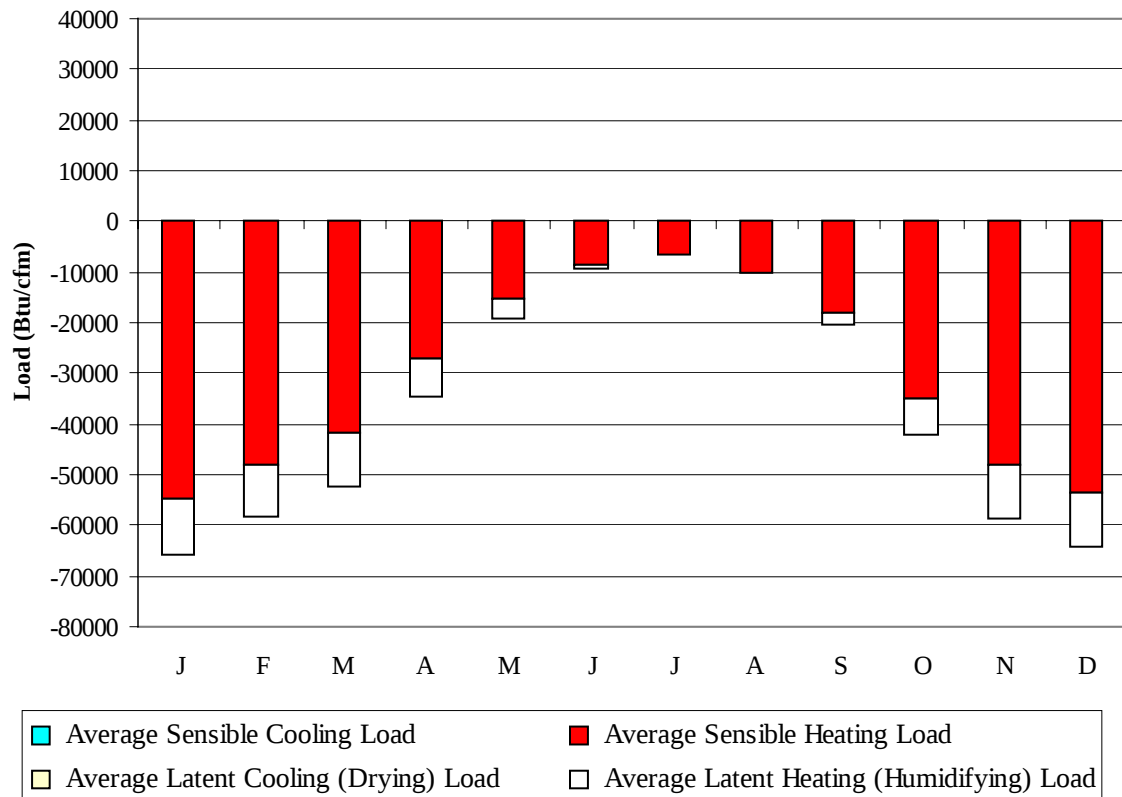
Long Term Dry Bulb Temperature and Humidity Summary

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	31.0	27.2	9.0	-2.4	-44.0	17.5	28.9	7.4	4.3
14-Jan	33.0	28.7	5.6	-5.2	-47.0	18.9	31.4	6.7	3.9
21-Jan	42.0	33.7	12.3	-1.0	-48.0	22.4	38.1	8.9	5.0
28-Jan	43.0	34.5	9.0	-5.0	-45.0	21.0	37.3	7.8	4.3
4-Feb	39.0	31.7	7.5	-5.5	-50.0	20.3	33.1	7.2	4.0
11-Feb	40.0	31.9	9.8	-3.5	-44.0	21.7	32.3	8.1	4.9
18-Feb	35.0	29.7	6.7	-9.3	-37.0	16.8	33.6	6.4	3.5
25-Feb	42.0	32.6	11.3	-8.0	-41.0	21.0	34.9	7.5	4.0
4-Mar	41.0	32.5	18.2	0.4	-30.0	20.3	37.5	9.2	4.8
11-Mar	41.0	33.5	22.3	2.1	-30.0	23.8	37.2	10.5	5.5
18-Mar	43.0	32.5	24.5	3.4	-20.0	17.5	31.8	10.6	5.2
25-Mar	43.0	34.3	28.3	7.3	-18.0	25.9	36.7	12.3	6.4
1-Apr	46.0	35.4	32.4	10.9	-11.0	22.4	38.5	13.5	7.4
8-Apr	49.0	38.0	35.9	15.5	-8.0	27.3	35.3	15.5	9.2
15-Apr	50.0	37.1	37.9	18.2	-5.0	26.6	43.4	15.7	9.8
22-Apr	56.0	41.6	44.9	26.0	7.0	28.0	41.3	19.2	13.1
29-Apr	62.0	45.1	49.9	30.7	21.0	30.1	45.6	21.5	14.8
6-May	67.0	47.2	52.8	33.3	22.0	33.6	45.1	24.7	16.5
13-May	71.0	51.7	55.6	36.6	28.0	37.8	51.4	26.4	17.9
20-May	69.0	50.0	57.5	38.8	29.0	41.3	55.8	28.9	19.4
27-May	70.0	52.1	60.8	41.9	34.0	50.4	60.5	32.8	22.6
3-Jun	75.0	54.3	63.1	44.8	37.0	54.6	62.0	39.4	26.9
10-Jun	74.0	56.1	64.1	45.7	38.0	58.1	59.2	41.8	28.6
17-Jun	78.0	55.4	66.5	47.8	41.0	67.9	62.2	46.5	32.1
24-Jun	80.0	58.9	67.0	49.3	43.0	68.6	65.2	50.2	35.2
1-Jul	81.0	57.9	68.1	51.1	43.0	67.9	64.6	52.6	37.7
8-Jul	81.0	60.7	69.8	52.0	45.0	70.7	66.4	55.9	40.1
15-Jul	81.0	58.0	69.0	52.4	46.0	78.4	65.3	58.8	42.8
22-Jul	79.0	59.0	69.4	52.2	46.0	84.7	72.2	60.1	44.1
29-Jul	80.0	63.0	69.5	51.1	44.0	86.8	76.3	59.1	42.4
5-Aug	83.0	63.5	67.8	51.0	45.0	81.2	68.4	58.9	42.6
12-Aug	81.0	60.4	67.5	49.9	42.0	71.4	60.8	53.2	38.8
19-Aug	79.0	59.9	64.4	47.8	37.0	77.7	64.0	50.6	37.1
26-Aug	78.0	59.0	61.7	44.3	34.0	65.8	55.7	46.6	34.1
2-Sep	72.0	57.2	59.8	41.0	30.0	67.2	69.8	43.3	30.3
9-Sep	68.0	53.4	57.8	39.0	29.0	51.8	58.8	38.3	26.8
16-Sep	66.0	53.7	55.5	38.4	24.0	53.2	60.7	36.7	26.2
23-Sep	66.0	51.1	50.4	36.7	19.0	49.7	56.5	31.8	22.9
30-Sep	58.0	45.8	45.4	30.2	11.0	46.9	50.9	27.6	19.1
7-Oct	54.0	42.0	41.0	28.0	14.0	34.3	42.4	24.2	17.4
14-Oct	55.0	44.3	33.9	22.3	2.0	33.6	47.1	20.7	14.2
21-Oct	46.0	36.9	27.6	14.8	-7.0	27.3	36.8	16.4	10.7
28-Oct	45.0	35.9	23.4	10.6	-15.0	28.0	37.4	14.3	9.0
4-Nov	43.0	35.6	18.6	7.0	-21.0	23.8	39.4	11.6	7.3
11-Nov	43.0	36.0	14.7	0.9	-33.0	25.9	36.8	10.3	5.8
18-Nov	40.0	32.7	11.0	-2.2	-28.0	23.8	35.7	8.7	4.8
25-Nov	38.0	32.3	10.3	-1.6	-28.0	19.6	37.9	7.8	4.5
2-Dec	45.0	37.4	7.9	-4.5	-36.0	24.5	39.0	7.9	4.3
9-Dec	31.0	27.2	6.7	-8.1	-41.0	16.1	29.2	6.3	3.2
16-Dec	42.0	34.6	5.8	-7.3	-42.0	21.0	39.3	6.9	3.9
23-Dec	40.0	33.3	9.8	-2.4	-34.0	21.7	37.2	8.0	4.5
31-Dec	39.0	33.4	10.0	-2.5	-41.0	18.2	34.9	7.9	4.2



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	2015
FEB	0	1770
MAR	0	1523
APR	0	956
MAY	5	501
JUN	29	255
JUL	49	180
AUG	26	307
SEP	1	608
OCT	0	1251
NOV	0	1765
DEC	0	1976
ANN	111	13107

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	-54674	0	-11010
FEB	0	-48069	0	-10307
MAR	0	-41885	0	-10529
APR	0	-27113	0	-7614
MAY	6	-15321	0	-3977
JUN	60	-8593	0	-622
JUL	118	-6524	19	-42
AUG	77	-10054	10	-270
SEP	0	-18076	0	-2384
OCT	0	-34826	0	-7344
NOV	0	-48074	0	-10477
DEC	0	-53596	0	-10762
ANN	261	-366805	29	-75338

Average Annual Solar Radiation – Nearest Available Site

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

City: BIG DELTA
 State: AK
 WBAN No: 26415
 Lat(N): 64
 Long(W): 145.73
 Elev(ft): 1273

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.171
 Vert Gap: 0.2

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	54	260	710	1230	1610	1730	1630	1230	750	330	100	16	810
	Std Dev	6	25	50	88	97	104	113	83	59	23	10	3	30
	Minimum	41	220	560	1020	1390	1490	1420	1050	620	270	76	13	750
	Maximum	63	330	800	1350	1810	1950	1850	1370	880	380	110	19	860
	Diffuse	32	140	320	570	730	860	800	620	400	220	65	10	400
Clear Day	Global	63	300	840	1600	2230	2540	2370	1780	1060	440	100	19	1120
NORTH	Global	21	87	210	390	600	720	650	430	250	130	39	6	290
	Diffuse	21	87	210	360	490	570	520	390	250	130	39	6	260
Clear Day	Global	19	76	180	370	730	1010	870	460	220	100	32	3	340
EAST	Global	73	260	630	950	1180	1170	1090	860	570	260	110	27	600
	Diffuse	28	120	280	470	590	660	620	480	310	160	52	7	320
Clear Day	Global	130	410	880	1410	1750	1890	1810	1490	1020	530	170	57	970
SOUTH	Global	370	800	1280	1340	1270	1180	1170	1110	980	630	430	190	900
	Diffuse	78	220	390	550	630	670	640	530	400	260	120	24	380
Clear Day	Global	740	1440	1960	2020	1860	1760	1770	1880	1920	1590	890	470	1520
WEST	Global	74	270	630	920	1100	1150	1100	890	590	270	110	27	600
	Diffuse	28	120	290	480	600	670	630	490	320	170	53	6	320
Clear Day	Global	130	410	880	1410	1750	1890	1810	1490	1020	530	170	57	970

Average Annual Solar Heat and Illumination – Nearest Available Site

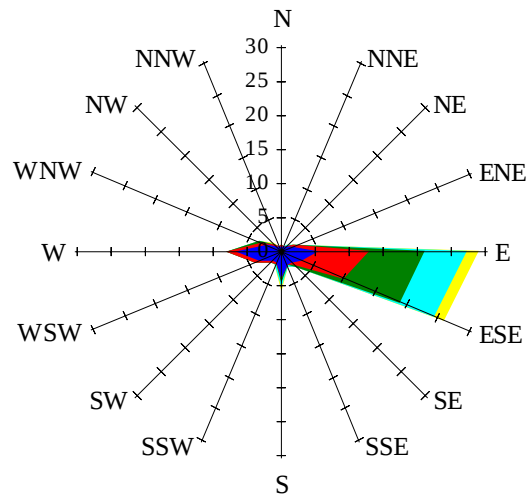
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	25	130	430	830	1120	1220	1150	850	490	200	52	7	540
NORTH	Unshaded	15	60	150	260	400	490	440	290	170	87	27	3	200
	Shaded	14	59	140	250	390	480	420	280	170	84	27	3	190
EAST	Unshaded	43	180	440	680	850	840	790	610	410	180	68	14	430
	Shaded	43	170	440	670	840	820	770	600	400	180	67	14	420
SOUTH	Unshaded	290	620	950	960	880	810	810	790	720	480	330	150	650
	Shaded	290	610	940	950	860	780	790	770	710	470	330	150	640
WEST	Unshaded	44	180	450	660	790	820	790	640	420	190	70	14	420
	Shaded	43	180	440	650	770	800	770	620	410	190	69	14	420

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	11	31	40	36	19	39	61	73	74	63
	M.Cloudy	9	23	31	27	14	25	42	51	54	46
NORTH	M.Clear	4	8	9	9	6	10	13	14	14	13
	M.Cloudy	4	9	11	10	6	10	14	15	16	14
EAST	M.Clear	44	52	18	9	6	76	73	41	14	13
	M.Cloudy	16	27	15	10	6	34	42	29	16	14
SOUTH	M.Clear	21	65	87	77	38	10	46	71	73	52
	M.Cloudy	9	32	46	39	18	10	29	45	49	35
WEST	M.Clear	4	8	9	43	54	10	13	14	32	67
	M.Cloudy	4	9	11	25	25	10	14	15	26	42
M.Clear	(% hrs)	38	40	40	39	37	24	22	21	15	14
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	10	31	45	46	33	0	0	3	0	0
	M.Cloudy	6	20	28	30	22	0	0	3	0	0
NORTH	M.Clear	4	8	10	10	9	0	0	2	0	0
	M.Cloudy	3	8	10	11	9	0	0	1	0	0
EAST	M.Clear	40	61	35	10	9	0	0	2	0	0
	M.Cloudy	11	24	19	11	9	0	0	2	0	0
SOUTH	M.Clear	10	50	79	81	53	0	0	23	0	0
	M.Cloudy	5	21	36	39	25	0	0	7	0	0
WEST	M.Clear	4	8	10	29	57	0	0	2	0	0
	M.Cloudy	3	8	10	18	26	0	0	1	0	0
M.Clear	(% hrs)	19	20	23	20	21	40	33	32	32	34

Wind Summary - December, January, and February

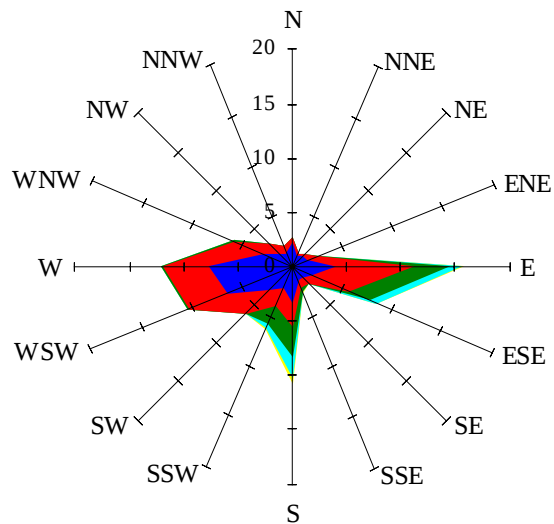
Labels of Percent Frequency on North Axis



Percent Calm = 9.42

Wind Summary - March, April, and May

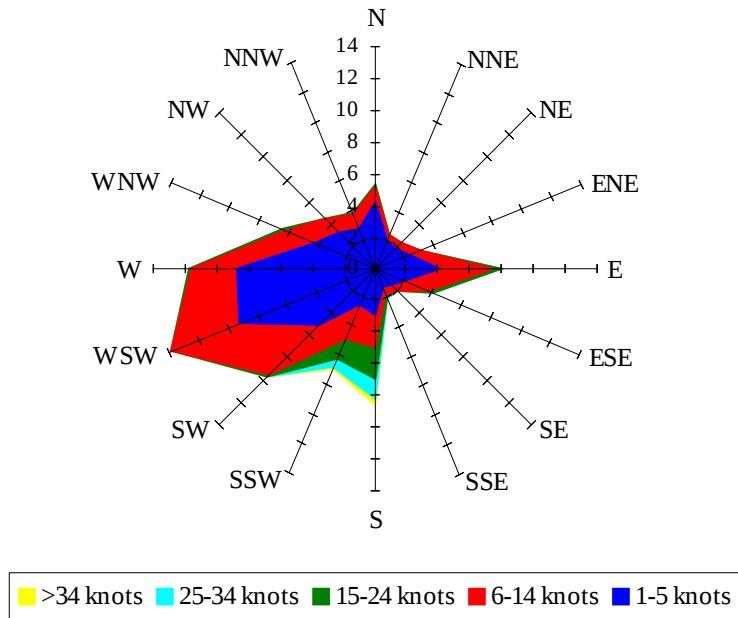
Labels of Percent Frequency on North Axis



Percent Calm = 7.47

Wind Summary - June, July, and August

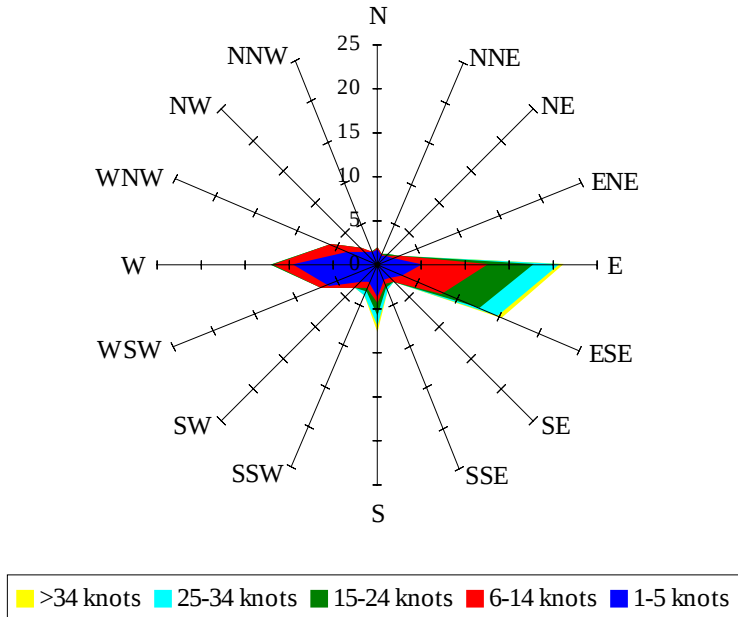
Labels of Percent Frequency on North Axis



Percent Calm = 5.79

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 7.84