

COLD BAY AK

Latitude = 55.20 N

Longitude = 162.70 W

Period of Record = 1973 to 1996

WMO No. 703160

Elevation = 102 feet

Average Pressure = 29.58 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	67	58	60	15.1	SE
0.4% Occurrence	60	54	54	15.6	SSE
1.0% Occurrence	57	53	54	16.9	SSE
2.0% Occurrence	56	52	53	17.1	SSE
Mean Daily Range	8	-	-	-	-
97.5% Occurrence	16	15	10	17.2	NNW
99.0% Occurrence	11	10	8	16.0	NNW
99.6% Occurrence	7	6	6	16.4	NNW
Median of Extreme Lows	1	1	5	14.6	N
	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	61	65	71	12.8	SE
0.4% Occurrence	56	58	61	18.3	SSE
1.0% Occurrence	54	56	58	18.3	SSE
2.0% Occurrence	53	55	56	18.0	SSE
	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	71	62	0.48	18.3	SE
0.4% Occurrence	62	56	0.42	20.7	SSE
1.0% Occurrence	60	55	0.41	19.0	SSE
2.0% Occurrence	57	54	0.39	18.4	SSE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		0	0	0	0

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
4	0.7	130	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 (#)
41.3	N/A	N/A	68

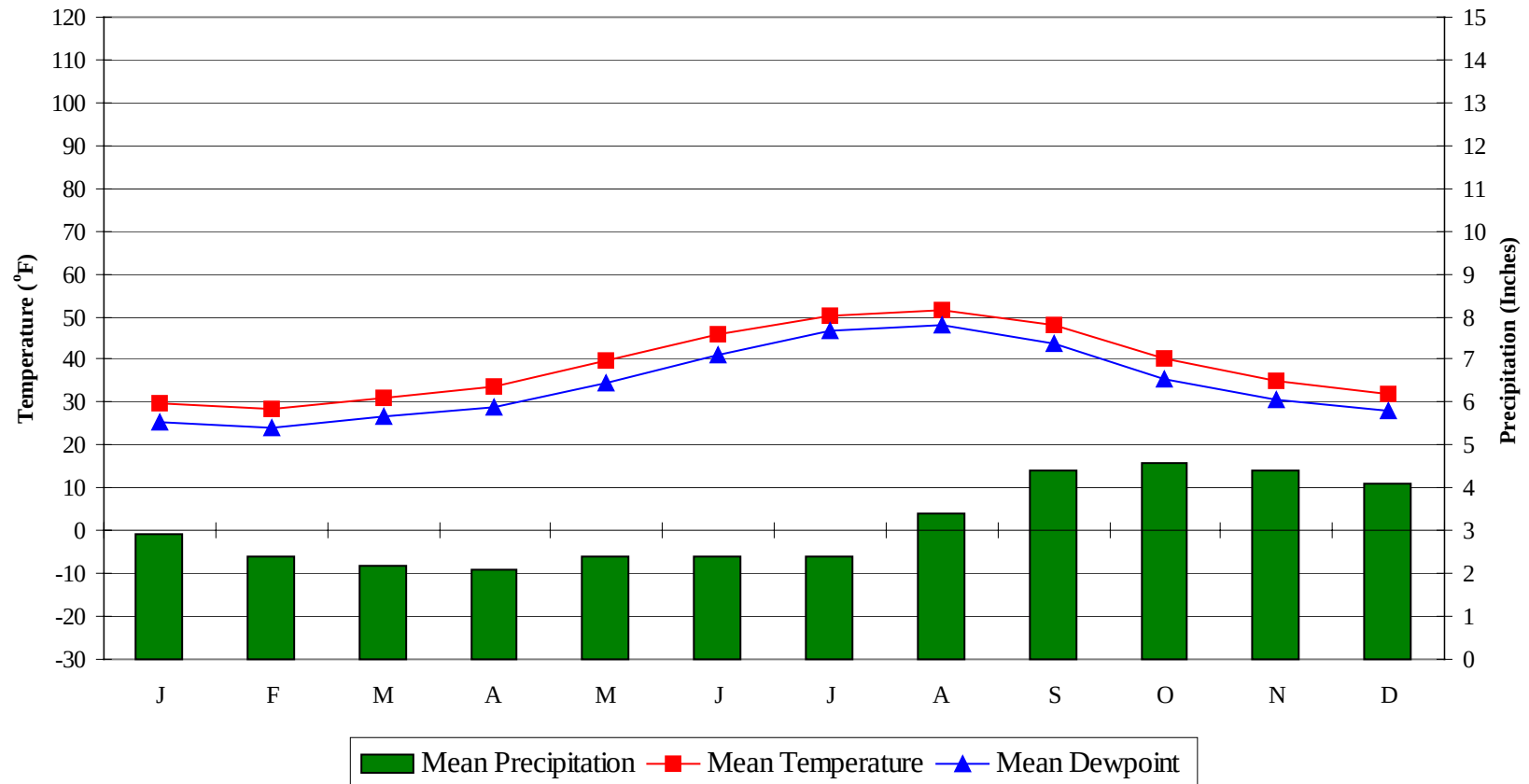
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

COLD BAY

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Average Annual Climate

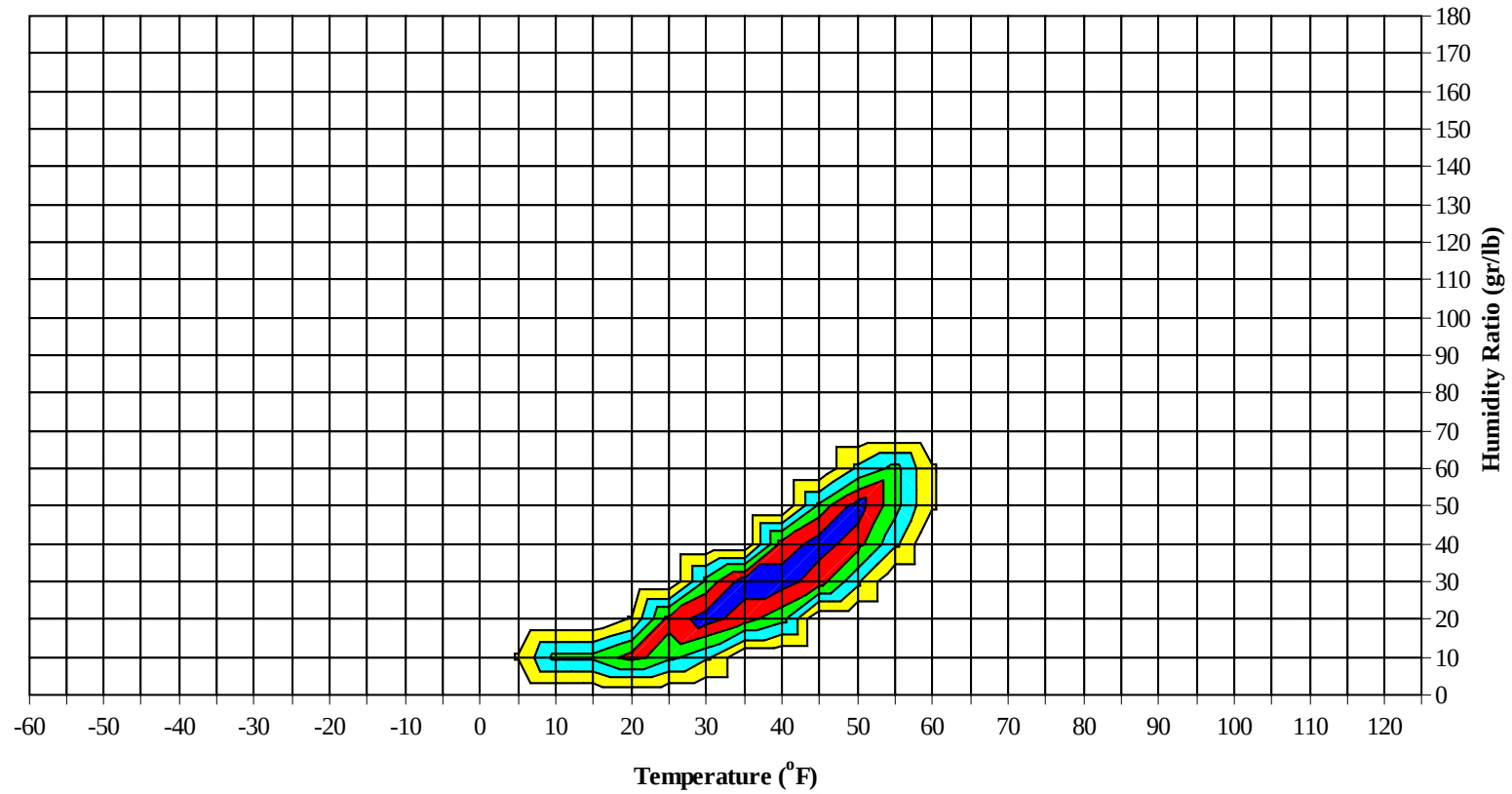


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Long Term Psychrometric Summary

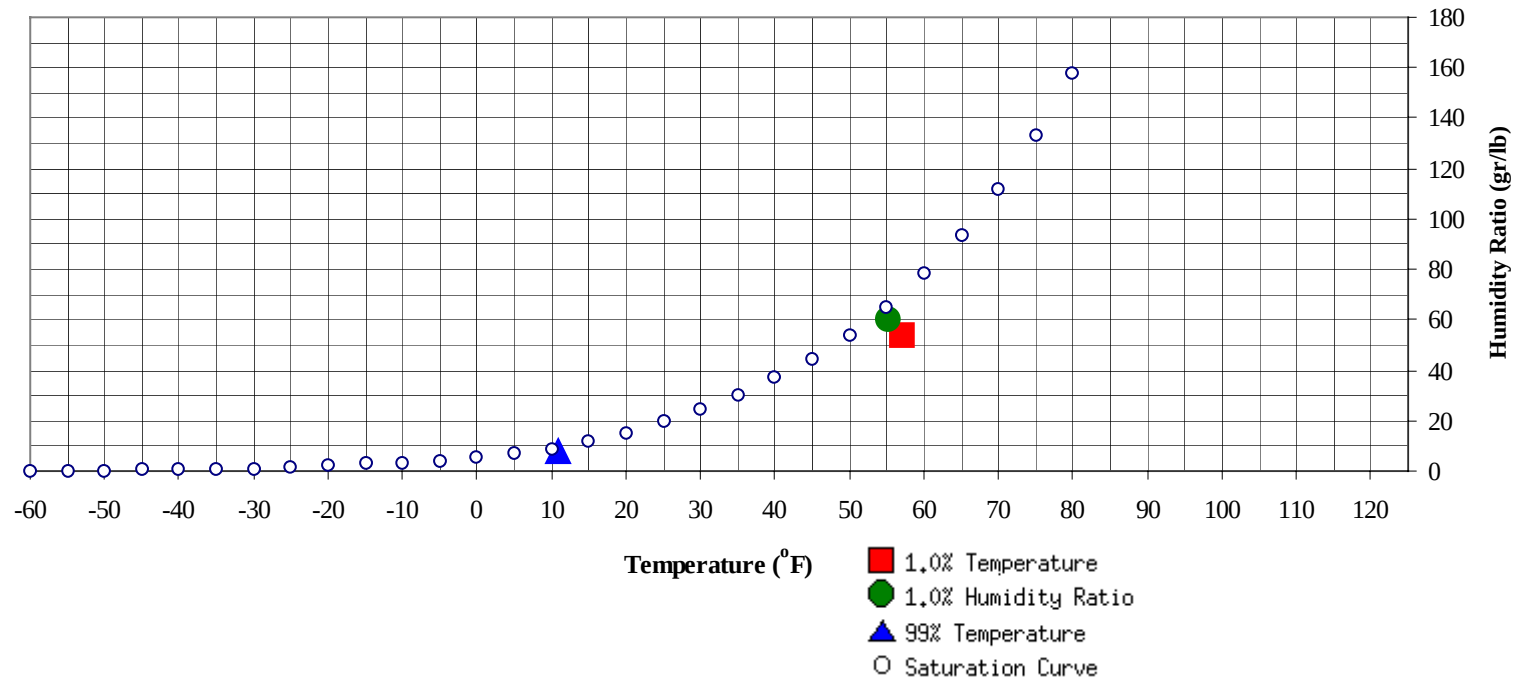


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

COLD BAY AK

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Psychrometric Summary of Peak Design Values



	(°F)	MCHR	Enthalpy	1.0% Humidity Ratio	(gr/lb)	MCDB	MCWB	MC Dewpt	Enthalpy
		(gr/lb)	(btu/lb)			(°F)	(°F)	(°F)	(btu/lb)
99% Dry Bulb	11	8	3.9	Ratio	60.2	55.3	54.1	53	22.6

1.0% Dry Bulb	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
57	53.6	53.1	22.0	

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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		
70 / 74															
65 / 69															
60 / 64															
55 / 59															
50 / 54	0			0	45.0	0			0		0			0	51.0
45 / 49	0	0	0	0	41.1	0	0	0	0	42.3	0	2	1	3	40.7
40 / 44	14	20	17	51	39.3	5	13	8	26	38.9	5	30	15	50	38.4
35 / 39	67	74	67	207	35.1	53	67	62	182	35.0	62	85	84	230	34.8
30 / 34	68	66	70	203	31.1	59	52	57	168	30.9	87	62	74	222	31.2
25 / 29	36	31	33	100	25.7	34	30	30	94	25.6	38	33	33	104	25.6
20 / 24	25	23	24	72	20.8	23	21	23	67	20.7	27	19	21	67	20.7
15 / 19	21	19	21	61	16.0	24	20	23	67	16.0	13	8	11	32	16.2
10 / 14	11	9	10	30	11.4	15	13	14	42	11.2	9	6	6	21	11.2
5 / 9	4	3	4	11	6.3	9	6	7	22	6.9	5	4	4	13	6.6
0 / 4	2	2	2	6	1.8	2	1	1	4	2.2	2	0	0	2	2.8
-5 / -1	0	1	1	2	-3.1	0	0	0	0	-1.6	0	0		0	-2.4
-10 / -6	0	0		0	-5.7										

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 = 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		
70 / 74														0	0 58.0
65 / 69							0	0	0	51.8		0	0	0	56.7
60 / 64							0	0	0	49.1		2	1	3	52.0
55 / 59							2	1	3	47.3		0	12	7	50.2
50 / 54		0	0	0	44.3	0	10	6	16	45.7	6	65	43	114	47.5
45 / 49		8	3	11	41.5	4	53	32	89	42.6	78	109	110	297	44.7
40 / 44	9	54	36	99	38.6	67	110	106	282	39.5	124	46	69	240	41.3
35 / 39	70	82	85	238	35.1	115	55	76	246	35.9	29	5	9	43	36.9
30 / 34	94	55	70	220	30.9	53	15	26	94	31.2	3	0	1	4	32.5
25 / 29	39	26	27	92	25.8	9	2	2	13	26.0					
20 / 24	17	10	14	41	21.0	0		0	0	21.2					
15 / 19	8	4	4	16	16.5	0			0	18.0					
10 / 14	2	0	1	3	12.3										
5 / 9	0	0	0	0	7.5										
0 / 4	0			0	4.0										
-5 / -1															
-10 / -6															

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 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		
70 / 74						0			0	57.0					
65 / 69		2	1	3	57.5	0	2	1	3	59.6	0	0		0	61.3
60 / 64		10	5	15	55.2	0	10	5	15	56.2	0	1	0	1	56.4
55 / 59	3	45	27	75	52.6	7	61	35	103	53.4	2	21	8	31	52.5
50 / 54	63	122	114	300	49.5	119	142	145	406	50.2	52	105	80	238	49.3
45 / 49	156	65	94	316	46.3	113	33	61	207	46.8	109	90	110	310	45.2
40 / 44	25	3	6	34	42.4	8	0	1	9	42.4	59	19	36	114	40.8
35 / 39	1		0	1	37.7	1			1	37.8	15	3	6	24	36.1
30 / 34	0			0	33.0						2	0	0	2	31.9
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															

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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		
70 / 74															
65 / 69															
60 / 64															
55 / 59		1	0	1	50.9		0	0	0	45.9					
50 / 54	4	14	6	24	48.1	0	1	1	2	46.7		0	0	0	44.3
45 / 49	35	71	50	156	44.2	9	17	10	36	43.8	1	1	1	3	41.9
40 / 44	76	86	84	246	39.9	42	51	44	137	39.8	24	30	26	80	39.5
35 / 39	84	53	74	211	35.0	73	78	79	230	35.1	77	85	79	241	35.2
30 / 34	40	18	29	87	30.9	67	56	63	186	30.5	70	63	68	201	31.0
25 / 29	8	4	5	17	25.9	35	27	31	93	25.5	37	36	38	111	25.5
20 / 24	1	0	1	2	21.1	12	8	12	32	21.5	21	18	20	59	21.0
15 / 19	0		0	0	16.9	2	1	1	4	17.3	13	11	11	35	16.4
10 / 14	0		0	0	12.1	0	0	0	0	12.8	4	3	4	11	11.7
5 / 9											1	1	1	3	6.3
0 / 4											0	0	0	0	2.2
-5 / -1															
-10 / -6															

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.

COLD BAY**AK**

WMO No. 703160

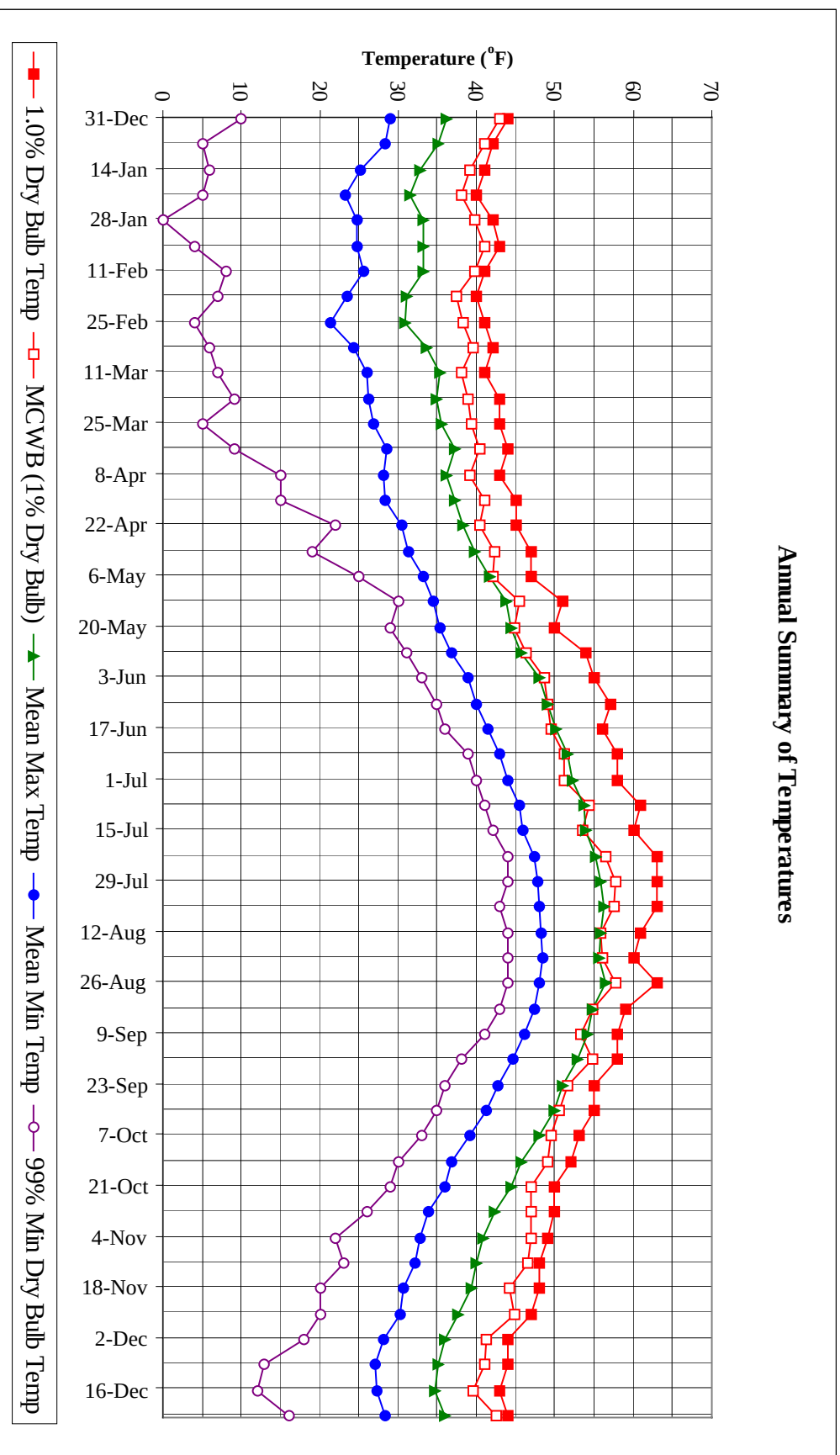
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

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		
70 / 74		0	0	0	57.5
65 / 69	0	4	1	5	58.2
60 / 64	0	22	12	34	55.3
55 / 59	11	142	78	231	52.6
50 / 54	245	461	396	1102	49.4
45 / 49	506	450	470	1426	45.2
40 / 44	458	461	448	1367	40.0
35 / 39	645	589	621	1855	35.2
30 / 34	542	389	458	1389	31.0
25 / 29	236	189	197	622	25.6
20 / 24	127	100	114	341	20.9
15 / 19	82	64	72	218	16.2
10 / 14	40	31	35	106	11.3
5 / 9	19	13	16	48	6.7
0 / 4	6	3	3	12	2.1
-5 / -1	1	1	1	3	-2.8
-10 / -6	0	0		0	-5.7

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

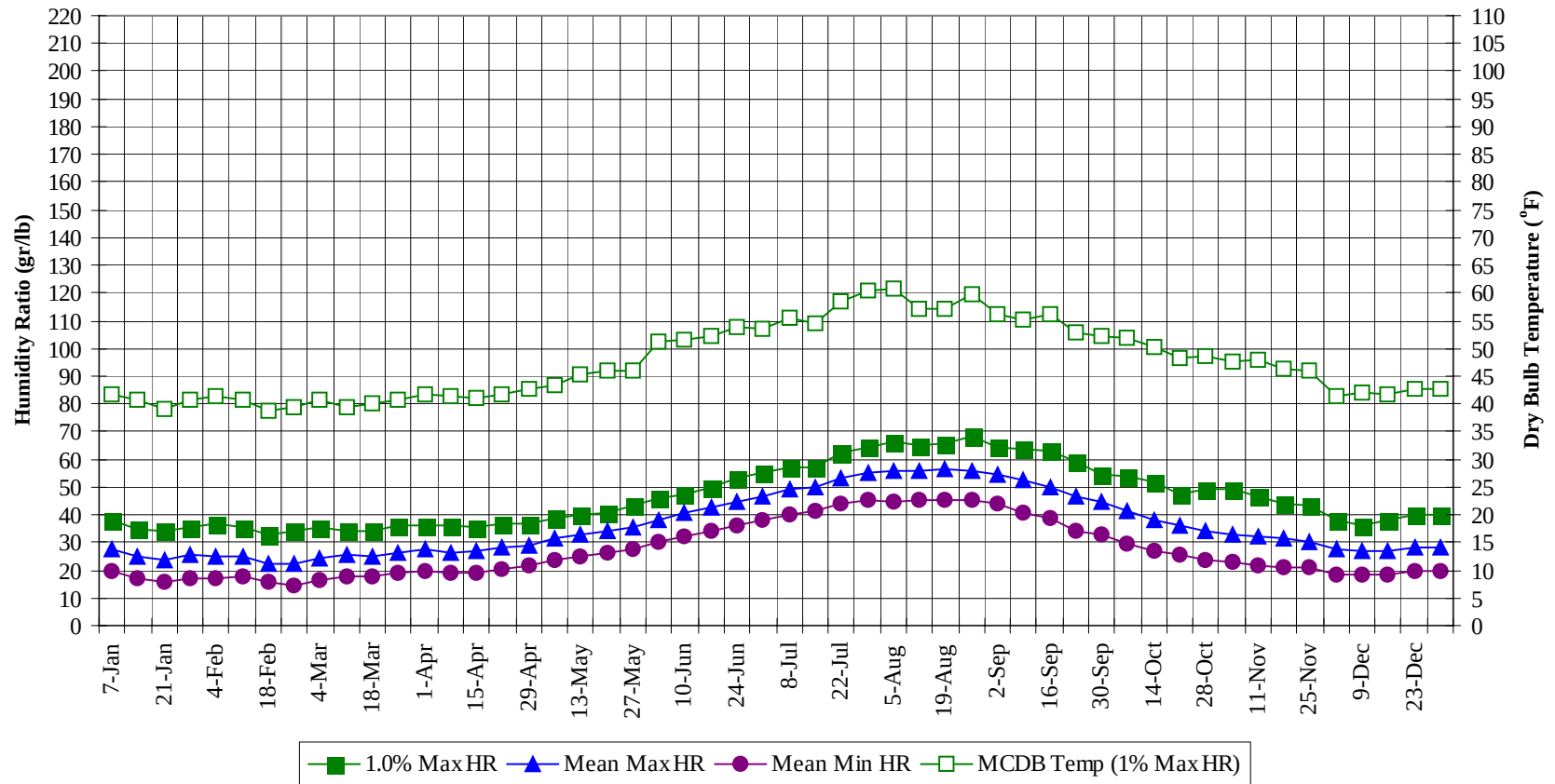


COLD BAY

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Long Term Humidity and Dry Bulb Temperature Summary



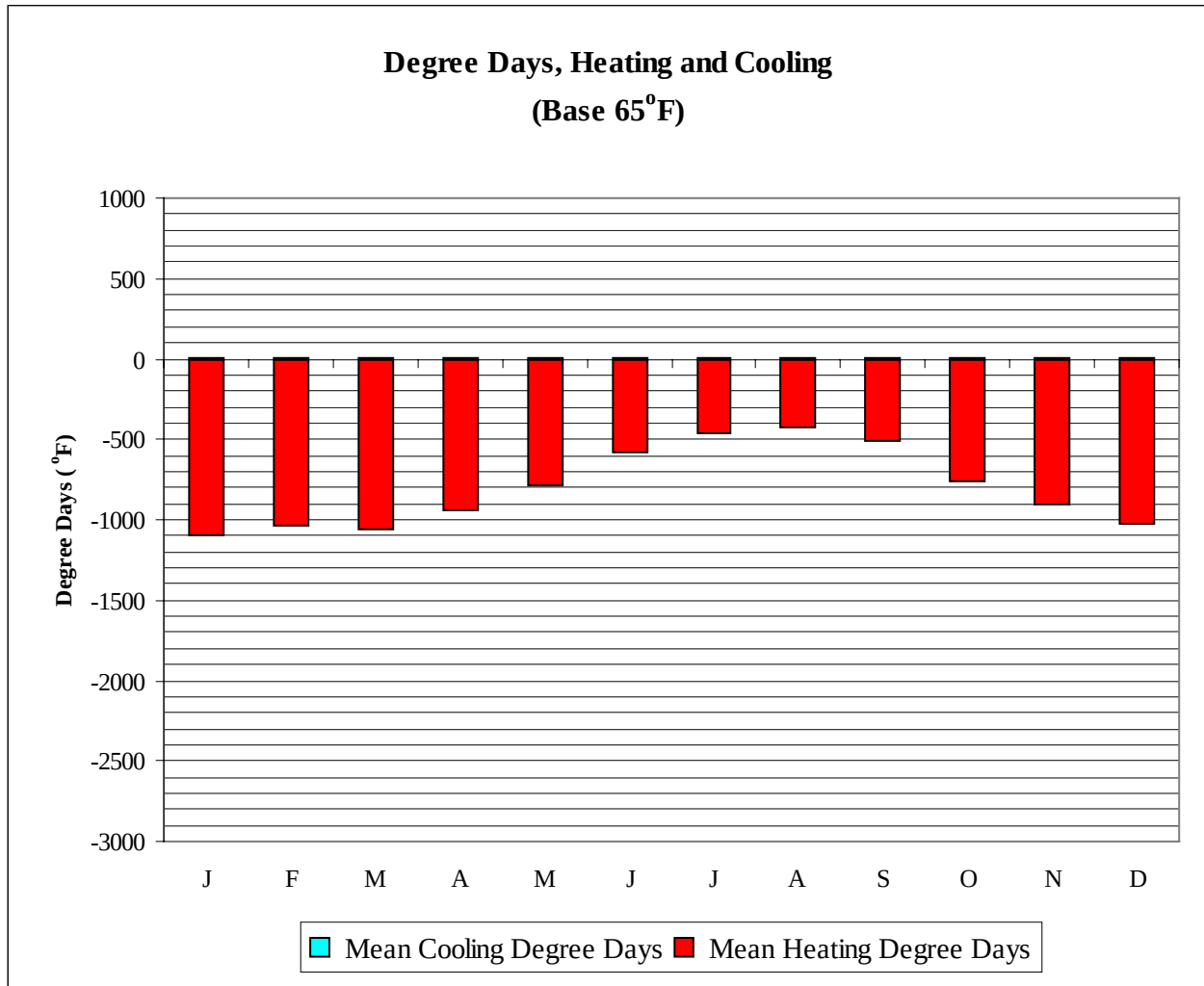
COLD BAY**AK****WMO No. 703160****Long Term Dry Bulb Temperature and Humidity Summary**

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	42.0	41.0	35.2	28.3	5.0	37.8	41.6	27.5	19.6
14-Jan	41.0	39.1	32.7	25.2	6.0	35.0	40.6	24.7	17.0
21-Jan	40.0	38.0	31.5	23.2	5.0	34.3	38.9	23.9	15.9
28-Jan	42.0	39.8	33.3	24.8	0.0	35.7	40.8	25.4	17.0
4-Feb	43.0	41.1	33.2	24.8	4.0	37.1	41.4	25.2	17.3
11-Feb	41.0	39.8	33.2	25.7	8.0	35.7	40.7	25.1	17.9
18-Feb	40.0	37.5	31.1	23.4	7.0	32.9	38.6	22.4	15.6
25-Feb	41.0	38.2	30.9	21.3	4.0	34.3	39.4	22.4	14.3
4-Mar	42.0	39.5	33.7	24.3	6.0	35.7	40.7	24.5	16.6
11-Mar	41.0	38.1	35.4	26.1	7.0	34.3	39.5	25.8	17.5
18-Mar	43.0	38.9	34.8	26.3	9.0	34.3	39.9	25.2	17.6
25-Mar	43.0	39.4	35.5	26.9	5.0	36.4	40.7	26.2	18.8
1-Apr	44.0	40.3	37.3	28.5	9.0	36.4	41.7	27.7	19.7
8-Apr	43.0	39.1	36.3	28.2	15.0	36.4	41.2	26.4	18.8
15-Apr	45.0	40.9	37.3	28.3	15.0	35.7	41.2	27.0	19.0
22-Apr	45.0	40.4	38.4	30.4	22.0	37.1	41.7	28.6	20.7
29-Apr	47.0	42.2	39.8	31.3	19.0	37.1	42.7	29.1	21.6
6-May	47.0	42.1	41.6	33.3	25.0	38.5	43.5	31.5	23.6
13-May	51.0	45.4	43.8	34.5	30.0	39.9	45.2	32.9	25.1
20-May	50.0	44.8	44.5	35.2	29.0	40.6	46.0	34.1	26.1
27-May	54.0	46.4	45.8	36.8	31.0	43.4	45.9	35.8	27.9
3-Jun	55.0	48.7	48.0	38.9	33.0	46.2	51.3	38.3	30.4
10-Jun	57.0	49.0	49.1	40.0	35.0	47.6	51.4	40.4	32.4
17-Jun	56.0	49.5	50.2	41.5	36.0	49.7	52.1	42.4	34.1
24-Jun	58.0	51.2	51.5	43.0	39.0	53.2	54.0	44.9	36.3
1-Jul	58.0	51.2	52.2	44.0	40.0	55.3	53.4	46.3	37.9
8-Jul	61.0	54.4	53.8	45.4	41.0	57.4	55.4	49.1	40.3
15-Jul	60.0	53.6	53.9	45.9	42.0	57.4	54.4	50.2	41.5
22-Jul	63.0	56.6	55.3	47.3	44.0	62.3	58.5	53.2	44.1
29-Jul	63.0	57.7	55.9	47.9	44.0	64.4	60.4	54.9	45.1
5-Aug	63.0	57.5	56.3	48.0	43.0	66.5	60.7	55.7	44.9
12-Aug	61.0	55.8	55.8	48.2	44.0	65.1	57.3	56.0	45.1
19-Aug	60.0	56.1	55.7	48.4	44.0	65.8	57.1	56.3	45.6
26-Aug	63.0	57.8	56.4	47.9	44.0	68.6	59.7	55.9	45.4
2-Sep	59.0	54.7	54.8	47.3	43.0	64.4	56.3	54.4	43.9
9-Sep	58.0	53.4	54.1	46.2	41.0	63.7	55.1	52.6	41.0
16-Sep	58.0	54.8	52.9	44.7	38.0	63.0	56.2	50.0	38.7
23-Sep	55.0	51.6	51.0	42.8	36.0	58.8	53.0	46.9	34.4
30-Sep	55.0	50.6	49.9	41.2	35.0	54.6	52.2	44.9	32.7
7-Oct	53.0	49.4	47.9	39.2	33.0	53.9	51.7	41.1	29.8
14-Oct	52.0	49.0	45.7	36.8	30.0	51.8	50.2	38.1	27.1
21-Oct	50.0	46.9	44.4	36.0	29.0	47.6	48.3	36.4	25.8
28-Oct	50.0	46.9	42.2	33.8	26.0	49.0	48.8	33.9	23.4
4-Nov	49.0	46.9	40.8	32.7	22.0	49.0	47.6	32.8	23.0
11-Nov	48.0	46.4	40.1	32.1	23.0	46.9	48.1	31.9	21.7
18-Nov	48.0	44.2	39.3	30.7	20.0	44.1	46.4	31.3	20.7
25-Nov	47.0	44.8	37.7	30.2	20.0	43.4	46.0	29.9	20.7
2-Dec	44.0	41.2	36.0	28.1	18.0	37.8	41.3	27.5	18.5
9-Dec	44.0	41.1	35.2	27.1	13.0	36.4	42.1	27.2	18.1
16-Dec	43.0	39.5	34.7	27.2	12.0	37.8	41.7	26.7	18.4
23-Dec	44.0	42.6	36.0	28.4	16.0	39.9	42.6	28.4	20.0
31-Dec	44.0	42.9	36.3	28.9	10.0	39.9	42.6	28.4	19.9

COLD BAY

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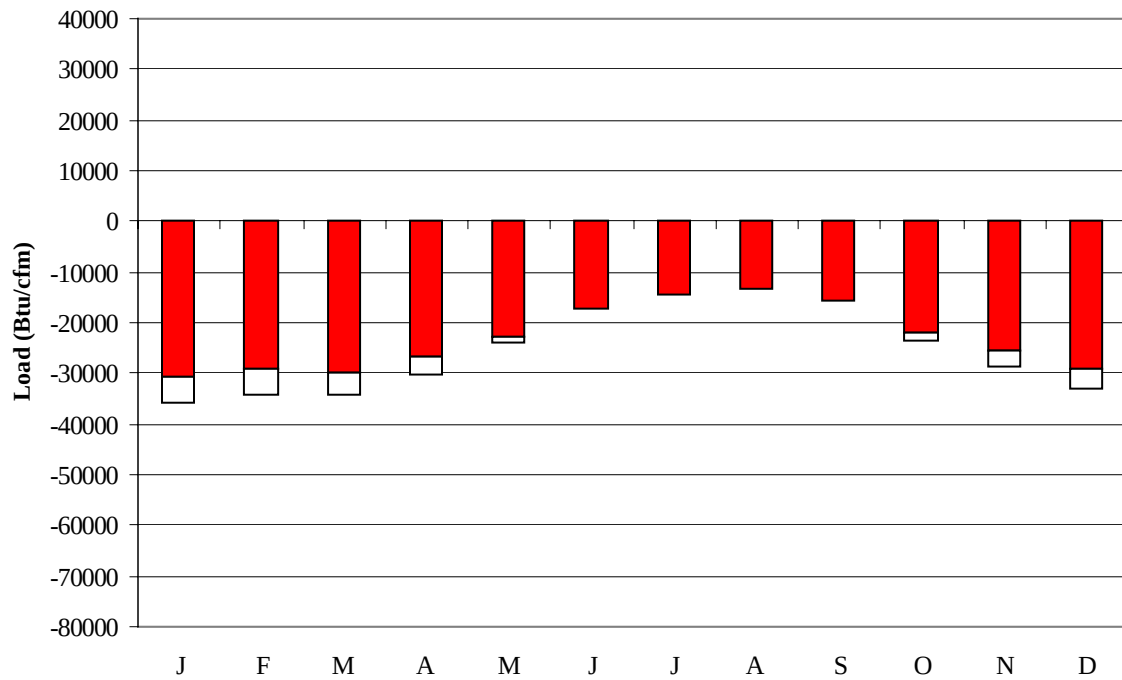
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1094
FEB	0	1039
MAR	0	1054
APR	0	940
MAY	0	785
JUN	0	576
JUL	0	462
AUG	0	421
SEP	0	513
OCT	0	762
NOV	0	899
DEC	0	1022
ANN	0	9567

COLD BAY

AK

WMO No. 703160

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 (Drying) Load	■ Average Latent Heating (Humidifying) Load

	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	-30772	0	-4859
FEB	0	-29115	0	-4953
MAR	0	-29726	0	-4512
APR	0	-26706	0	-3439
MAY	0	-22746	0	-1244
JUN	0	-17275	0	-71
JUL	0	-14378	0	-2
AUG	0	-13309	1	-1
SEP	0	-15636	0	-104
OCT	0	-22169	0	-1441
NOV	0	-25636	0	-3015
DEC	0	-28894	0	-4029
ANN	0	-276362	1	-27670

Average Annual Solar Radiation – Nearest Available Site

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

City: COLD BAY
 State: AK
 WBAN No: 25624
 Lat(N): 55.2
 Long(W): 162.72
 Elev(ft): 95

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.124
 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	190	390	700	970	1160	1250	1180	950	690	430	220	140	690
	Std Dev	23	37	77	91	84	92	98	74	67	36	22	15	35
	Minimum	150	320	560	820	980	1040	1000	810	570	360	160	100	630
	Maximum	230	490	870	1300	1300	1460	1380	1120	820	510	270	160	780
	Diffuse	140	280	470	710	850	940	910	750	520	320	170	110	510
Clear Day	Global	300	620	1190	1870	2400	2630	2500	2020	1390	770	360	220	1360
NORTH	Global	78	150	260	380	480	530	500	400	280	170	94	59	280
	Diffuse	78	150	260	370	460	500	480	390	280	170	94	59	270
Clear Day	Global	70	130	230	370	630	800	720	440	260	160	82	57	330
EAST	Global	150	270	470	590	660	670	640	530	430	290	160	110	420
	Diffuse	97	190	320	440	520	560	540	450	330	210	120	73	320
Clear Day	Global	350	620	1010	1400	1650	1740	1680	1460	1110	710	400	280	1040
SOUTH	Global	420	590	770	730	710	700	680	630	590	540	400	310	590
	Diffuse	180	280	400	490	540	570	550	480	380	280	190	140	370
Clear Day	Global	1370	1770	1990	1830	1590	1460	1500	1680	1890	1820	1450	1200	1630
WEST	Global	150	270	470	590	690	730	690	550	430	280	160	100	430
	Diffuse	98	190	320	450	530	570	550	450	330	210	110	75	320
Clear Day	Global	350	620	1010	1400	1650	1740	1680	1460	1110	710	400	280	1040

Average Annual Solar Heat and Illumination – Nearest Available Site

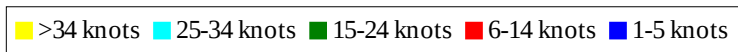
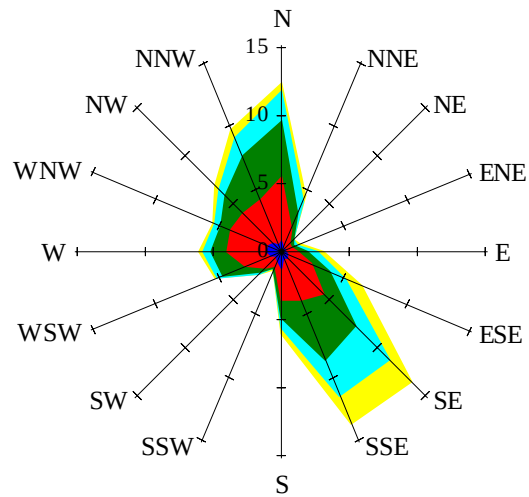
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	110	250	470	670	810	880	830	660	480	280	140	83	470
NORTH	Unshaded	54	100	180	260	330	360	340	270	190	120	65	41	190
	Shaded	52	100	180	260	320	350	330	270	190	120	63	40	190
EAST	Unshaded	100	190	330	410	470	470	450	370	300	210	110	70	290
	Shaded	99	190	320	410	460	460	440	370	300	200	110	69	290
SOUTH	Unshaded	320	440	560	510	490	480	470	430	420	390	300	240	420
	Shaded	320	430	550	500	480	470	460	430	420	390	300	240	420
WEST	Unshaded	100	190	330	420	490	520	490	390	300	200	110	70	300
	Shaded	99	190	330	410	480	510	480	380	300	200	110	69	300

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	2	26	47	52	39	20	50	74	86	78
	M.Cloudy	2	17	29	31	24	11	25	36	45	43
NORTH	M.Clear	1	8	11	11	10	21	11	14	15	14
	M.Cloudy	1	7	12	12	10	7	11	15	18	17
EAST	M.Clear	10	59	43	11	10	54	79	64	23	14
	M.Cloudy	3	19	20	12	10	10	21	24	20	17
SOUTH	M.Clear	2	42	76	85	62	7	19	51	67	58
	M.Cloudy	1	15	29	32	23	5	12	22	29	27
WEST	M.Clear	1	8	11	22	56	7	11	14	15	50
	M.Cloudy	1	7	12	15	22	5	11	15	18	25
M.Clear	(% hrs)	12	11	13	12	12	3	3	4	5	6
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	1	22	47	59	53	0	1	13	15	5
	M.Cloudy	1	12	25	32	28	0	0	9	9	3
NORTH	M.Clear	1	7	11	12	12	0	0	5	5	2
	M.Cloudy	0	6	10	13	11	0	0	4	4	2
EAST	M.Clear	5	54	54	18	12	0	3	19	5	2
	M.Cloudy	1	14	20	14	11	0	1	7	4	2
SOUTH	M.Clear	1	24	60	82	69	0	3	47	52	19
	M.Cloudy	0	9	21	30	25	0	1	13	13	5
WEST	M.Clear	1	7	11	12	47	0	0	5	14	15
	M.Cloudy	0	6	10	13	20	0	0	4	6	4
M.Clear	(% hrs)	5	5	4	3	3	14	12	11	12	9

Wind Summary - December, January, and February

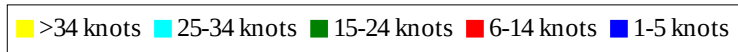
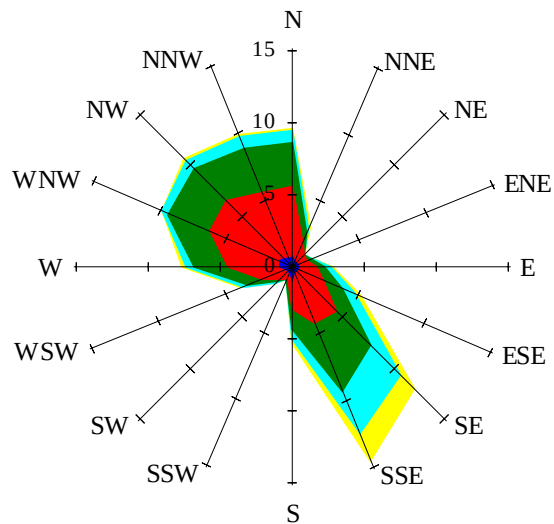
Labels of Percent Frequency on North Axis



Percent Calm = 1.96

Wind Summary - March, April, and May

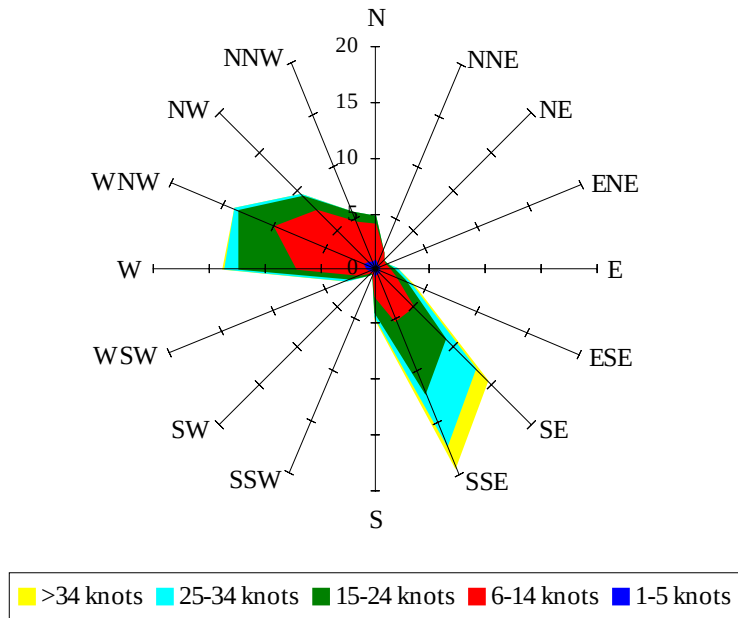
Labels of Percent Frequency on North Axis



Percent Calm = 1.46

Wind Summary - June, July, and August

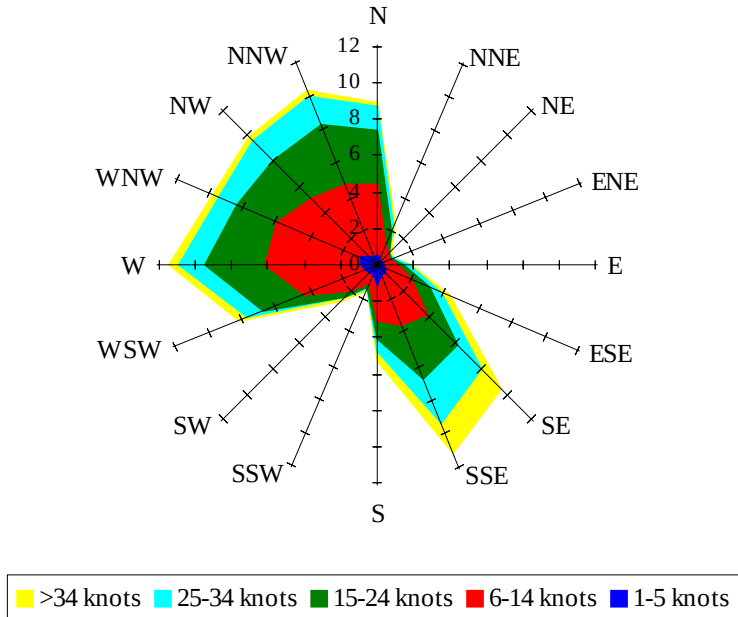
Labels of Percent Frequency on North Axis



Percent Calm = 1.55

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 1.55