REYKJAVIK, ICELAND

Latitude = 64.13 N	WMO No. 040300
Longitude = 21.90 W	Elevation = 200 feet
Period of Record = 1973 to 1996	Average Pressure = 29.48 inches Hg

Design Criteria Data

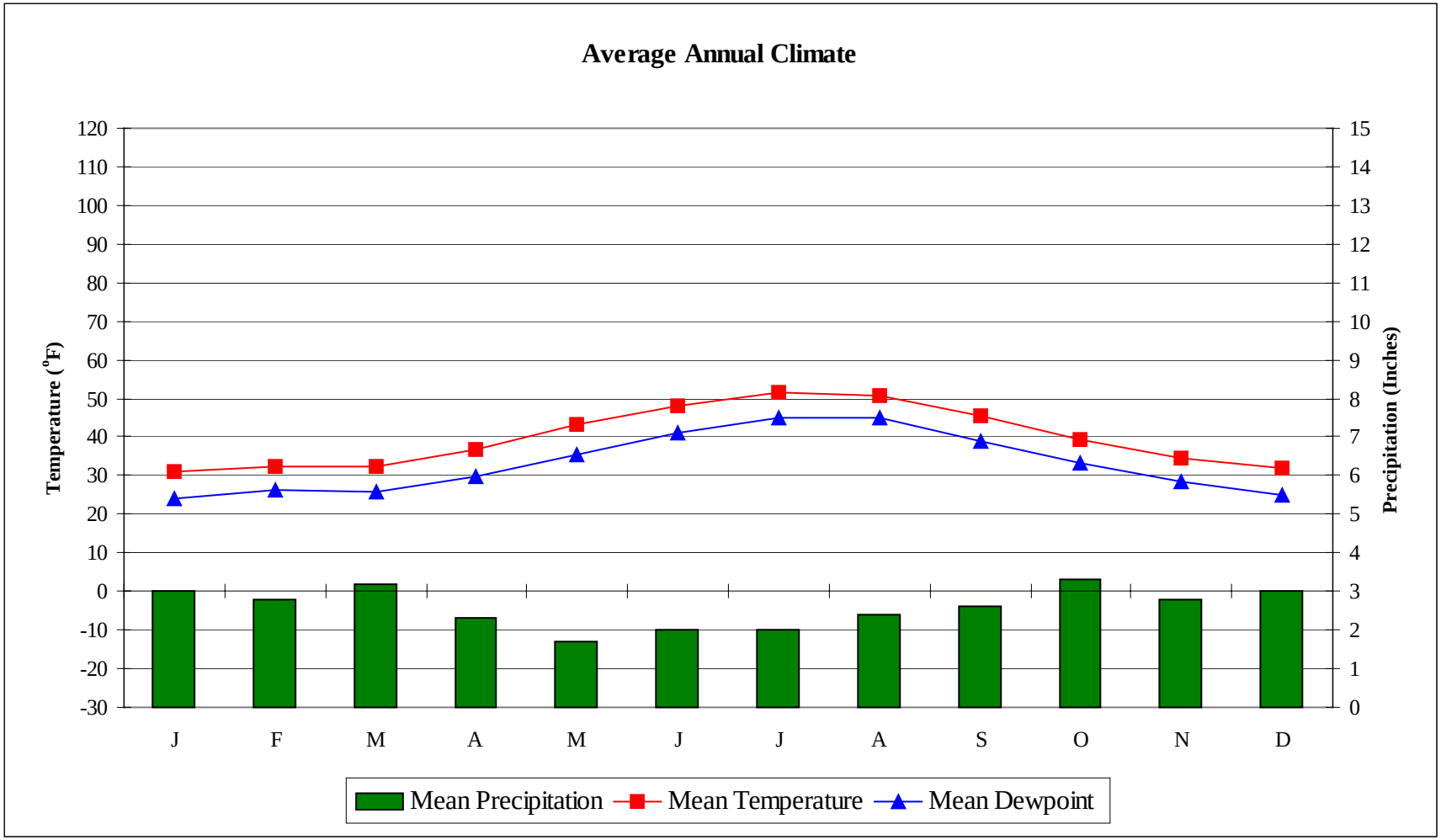
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	65	56	53	12.8	N
0.4% Occurrence	60	53	49	12.3	N
1.0% Occurrence	57	51	49	12.6	N
2.0% Occurrence	56	51	48	13.1	N
Mean Daily Range	8	-	-	-	-
97.5% Occurrence	19	17	9	12.2	E
99.0% Occurrence	17	15	8	11.4	E
99.6% Occurrence	14	12	7	9.9	E
Median of Extreme Lows	10	8	6	9.0	E
		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	58	62	64	10.4	E
0.4% Occurrence	55	58	58	12.2	E
1.0% Occurrence	53	55	55	12.2	S
2.0% Occurrence	52	55	53	11.9	S
		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	66	59	0.44	8.3	E
0.4% Occurrence	60	56	0.41	12.9	S
1.0% Occurrence	57	55	0.39	11.6	S
2.0% Occurrence	55	53	0.36	11.8	S
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	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^oF-RH 60% Latent + Sensible
4	N/A	N/A	0.0 + 0.0
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 (#)**
42.4	N/A	N/A	58

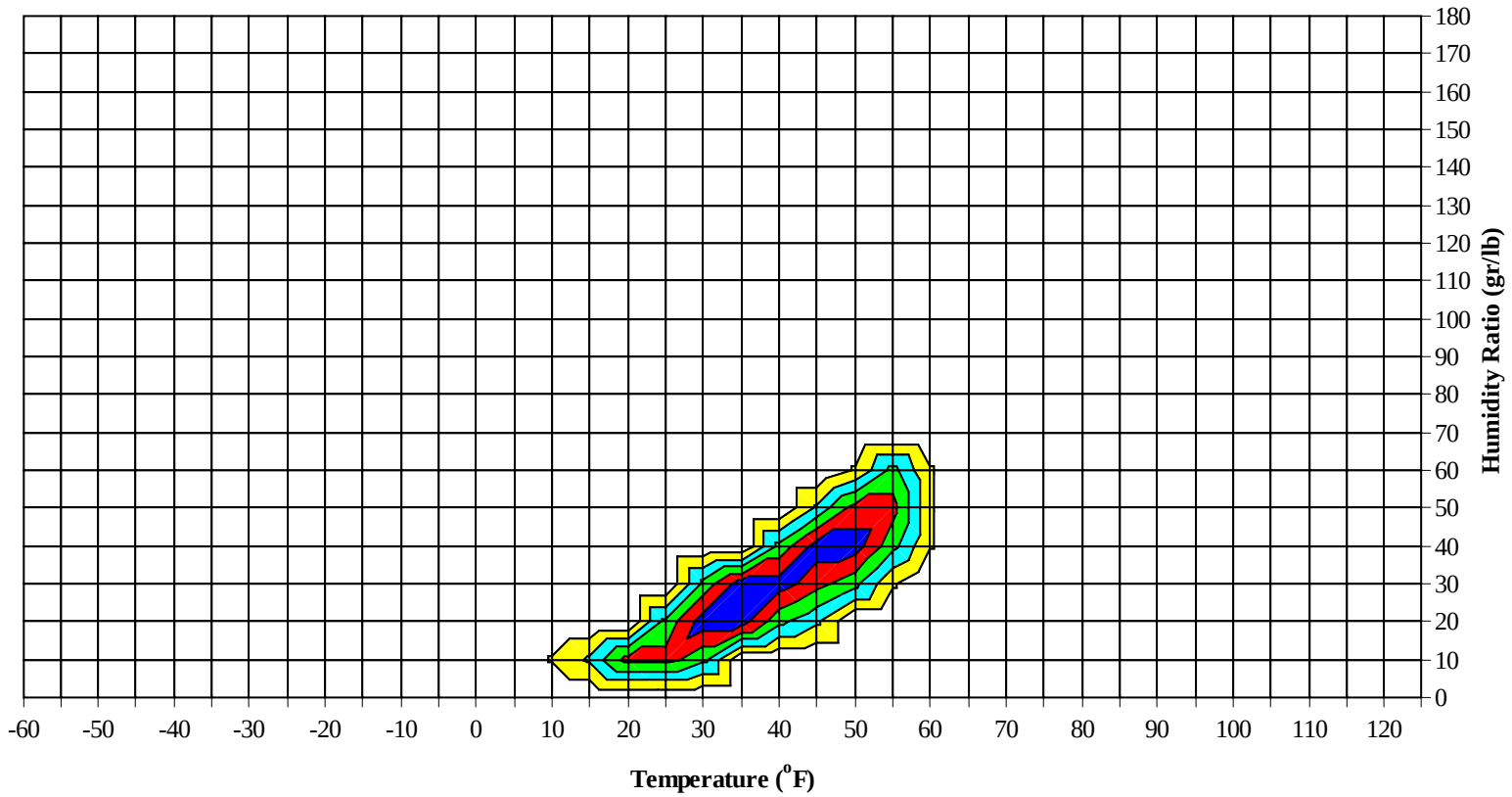
*Note: Temperatures at greater depths can be estimated by adding 1.5^oF per 100 feet additional depth.

REYKJAVIK, ICELAND WMO No. 040300



REYKJAVIK, ICELAND WMO No. 040300

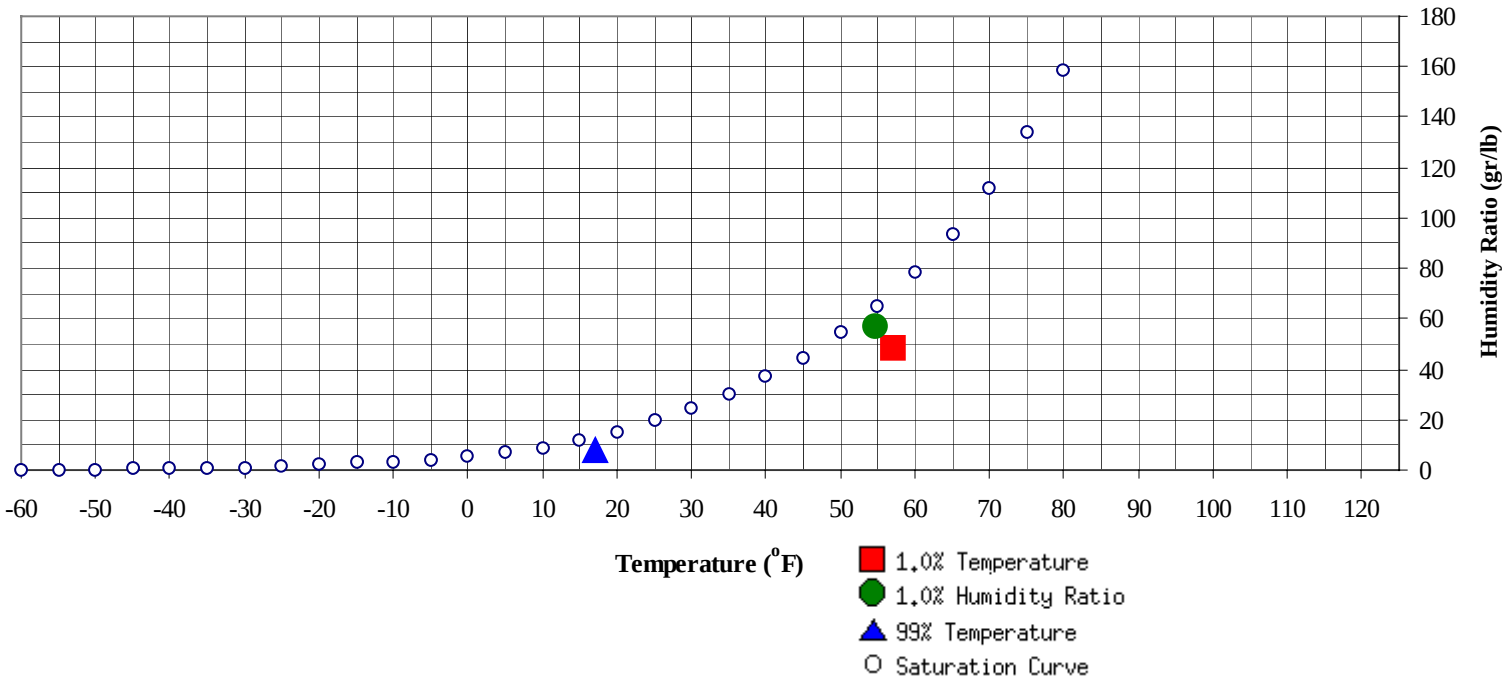
Long Term Psychrometric Summary



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

REYKJAVIK, ICELAND WMO No. 040300

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	17	8.2	5.3

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	57.4	54.7	53	51.7	22.0

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	57	48.6	51.6	21.2

REYKJAVIK, ICELAND WMO No. 040300

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)
70 / 74															
65 / 69															
60 / 64															
55 / 59															
50 / 54	0		0	0	46.7	0	1	1	2	46.2		0	0	0	45.5
45 / 49	8	10	9	27	44.2	6	9	6	21	43.4	4	11	5	20	43.0
40 / 44	22	19	20	60	39.4	19	24	25	68	39.6	21	32	27	81	39.3
35 / 39	50	57	54	161	34.5	59	65	62	185	34.5	58	72	72	202	34.4
30 / 34	66	61	63	190	30.1	62	63	63	188	29.9	74	68	69	211	30.1
25 / 29	55	57	56	168	24.7	46	37	42	126	24.8	49	43	46	138	24.7
20 / 24	25	25	23	73	20.1	19	16	17	51	20.1	22	13	17	51	19.8
15 / 19	16	14	17	46	15.6	11	9	8	27	15.6	17	8	11	35	15.5
10 / 14	5	4	7	16	10.9	2	1	1	4	10.5	3	1	2	6	10.8
5 / 9	1	1	0	2	6.1	0			0	7.0	0	0	0	0	6.8
0 / 4		0		0	2.0										

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.

REYKJAVIK, ICELAND WMO No. 040300

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)
70 / 74															
65 / 69							0		0	52.0			0	0	55.0
60 / 64							1	0	1	50.7	0	2	1	3	52.1
55 / 59						1	7	4	12	49.0	1	24	14	38	49.5
50 / 54	0	3	2	5	44.9	5	48	33	86	46.4	37	108	95	239	47.3
45 / 49	13	36	26	75	43.0	65	94	90	250	43.2	135	94	110	339	44.3
40 / 44	30	60	56	147	38.9	75	63	70	207	39.2	56	12	19	86	40.2
35 / 39	83	80	81	243	34.6	71	25	38	135	34.7	11	1	2	13	35.0
30 / 34	66	41	50	157	29.8	22	7	9	38	29.8	1	0	0	1	30.5
25 / 29	32	17	19	69	24.2	6	3	3	12	24.0					
20 / 24	12	3	5	19	19.6	2	0	1	3	19.9					
15 / 19	3	0	1	4	15.7	0			0	18.0					
10 / 14	1			1	11.1										
5 / 9															
0 / 4															

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.

REYKJAVIK, ICELAND WMO No. 040300

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)
70 / 74	0	1	0	1	60.8										
65 / 69	0	1	1	2	57.6										
60 / 64	1	12	7	20	54.3	0	4	3	7	53.9		0	0	0	54.0
55 / 59	9	66	46	122	51.4	7	59	39	106	51.7	1	11	6	18	51.2
50 / 54	106	131	139	376	48.8	88	139	139	367	48.8	32	72	54	158	48.1
45 / 49	114	36	51	201	45.1	123	42	62	228	45.2	80	101	102	283	43.8
40 / 44	16	1	3	20	40.8	24	3	5	32	40.3	63	40	50	153	39.3
35 / 39	1			1	35.8	5	0	0	5	35.9	53	15	24	91	34.9
30 / 34											11	2	4	17	29.9
25 / 29											0	0	0	0	25.0
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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.

REYKJAVIK, ICELAND WMO No. 040300

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

Period of Record = 1973 to 1996

Temperature Range (°F)	October Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	November Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)	December Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
70 / 74															
65 / 69															
60 / 64															
55 / 59	0	0	0	0	50.0										
50 / 54	11	19	13	43	47.3	0	2	2	4	47.2	0	0	0	0	45.8
45 / 49	40	55	49	143	43.8	23	22	23	67	44.1	14	15	14	42	43.7
40 / 44	47	63	58	167	39.4	30	35	29	94	39.5	21	22	18	60	39.5
35 / 39	83	72	77	232	34.7	67	69	70	206	34.7	54	55	57	167	34.5
30 / 34	45	31	41	116	29.8	61	60	60	180	30.0	69	67	70	206	30.0
25 / 29	20	8	10	38	24.6	34	34	34	102	24.6	51	48	51	151	24.6
20 / 24	2	1	1	4	20.3	18	13	15	45	19.7	20	21	21	61	19.8
15 / 19	0	0	0	0	17.0	7	5	7	19	15.6	17	16	14	46	15.4
10 / 14						1	1	1	3	11.3	3	4	4	11	11.0
5 / 9											0	0	0	0	7.1
0 / 4															

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.

REYKJAVIK, ICELAND WMO No. 040300

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

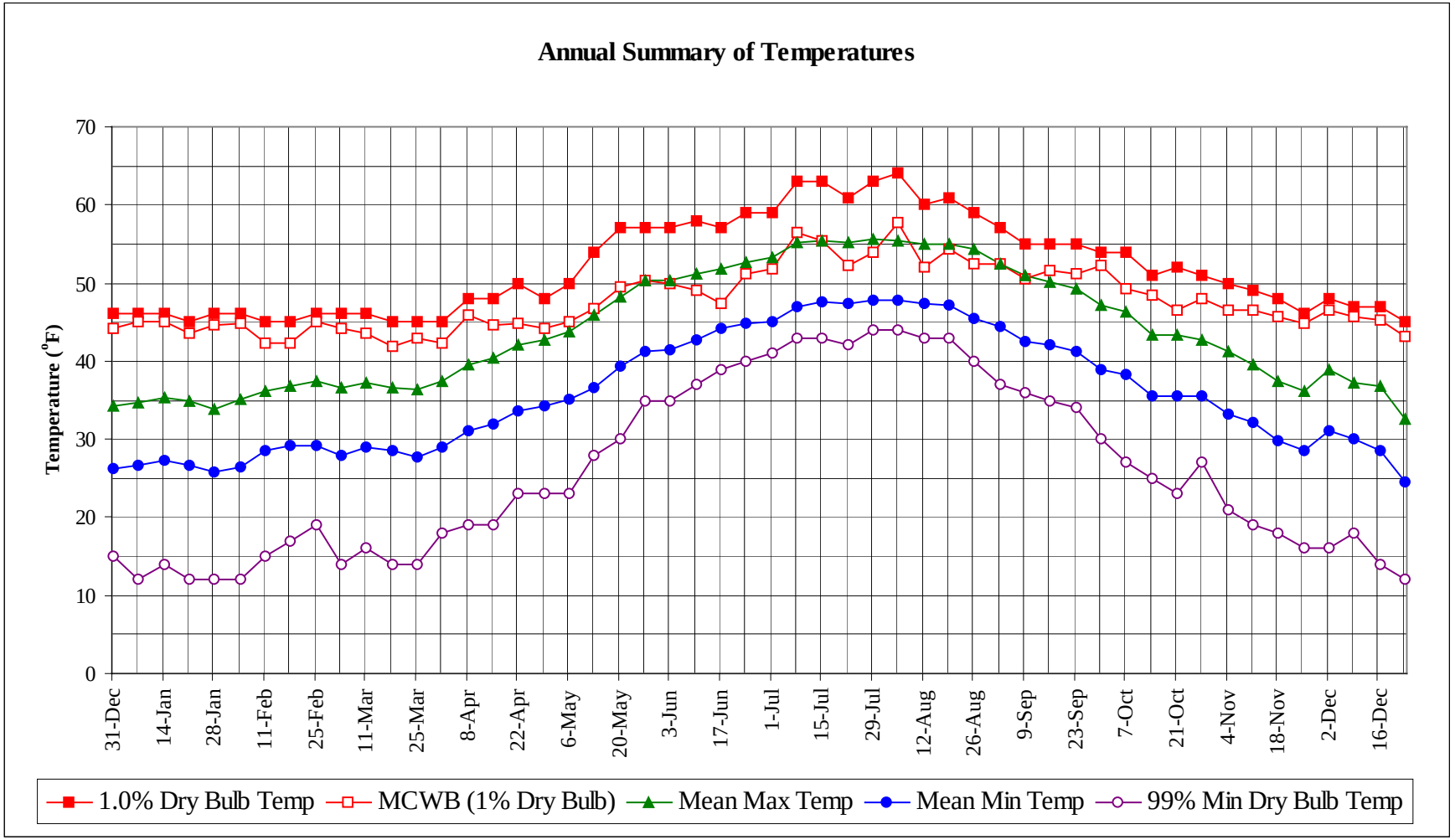
Period of Record = 1973 to 1996

Annual Totals

Temperature Range (°F)	Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
70 / 74	0	1	0	1	60.8
65 / 69	0	2	2	4	57.0
60 / 64	1	19	12	32	53.8
55 / 59	19	169	109	297	51.2
50 / 54	286	526	480	1292	48.2
45 / 49	629	526	549	1705	44.1
40 / 44	423	374	381	1178	39.4
35 / 39	592	509	532	1633	34.6
30 / 34	474	398	424	1296	30.0
25 / 29	291	244	260	795	24.6
20 / 24	117	89	99	305	19.9
15 / 19	69	51	57	177	15.5
10 / 14	17	11	15	42	10.9
5 / 9	1	1	1	3	6.5
0 / 4		0		0	2.0

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.

REYKJAVIK, ICELAND WMO No. 040300



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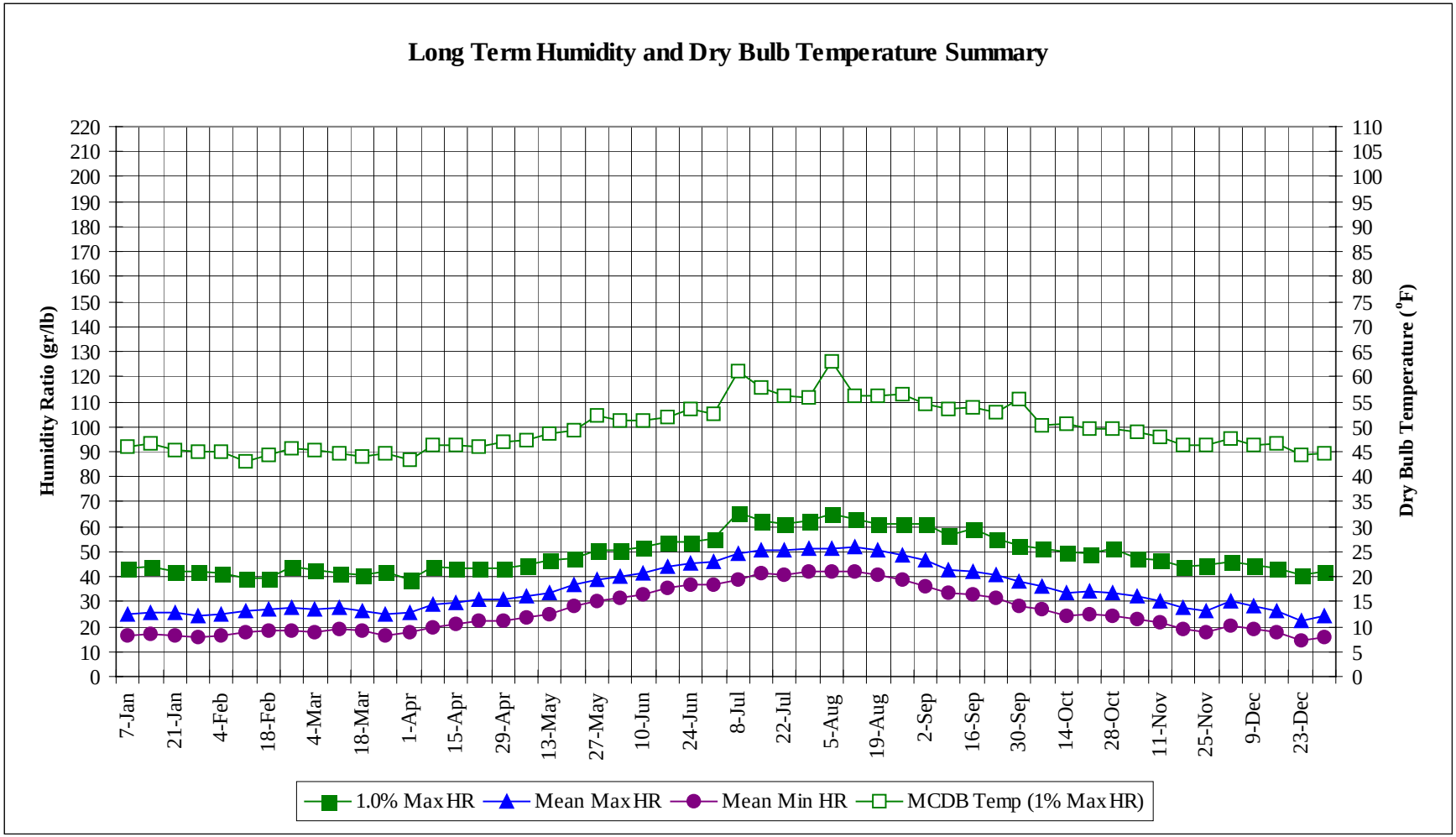
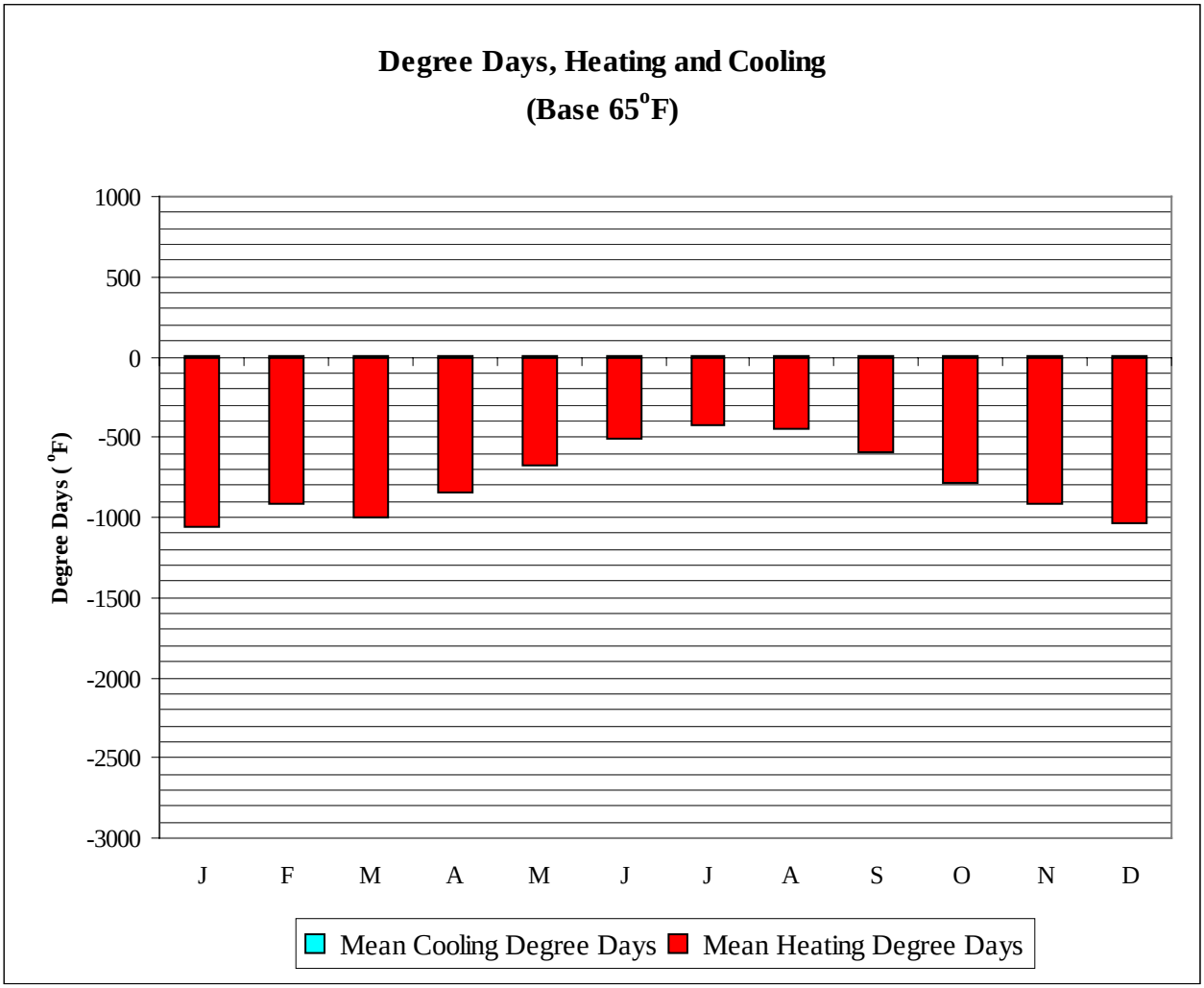


REYKJAVIK, ICELAND WMO No. 040300

Long Term Dry Bulb Temperature and Humidity Summary

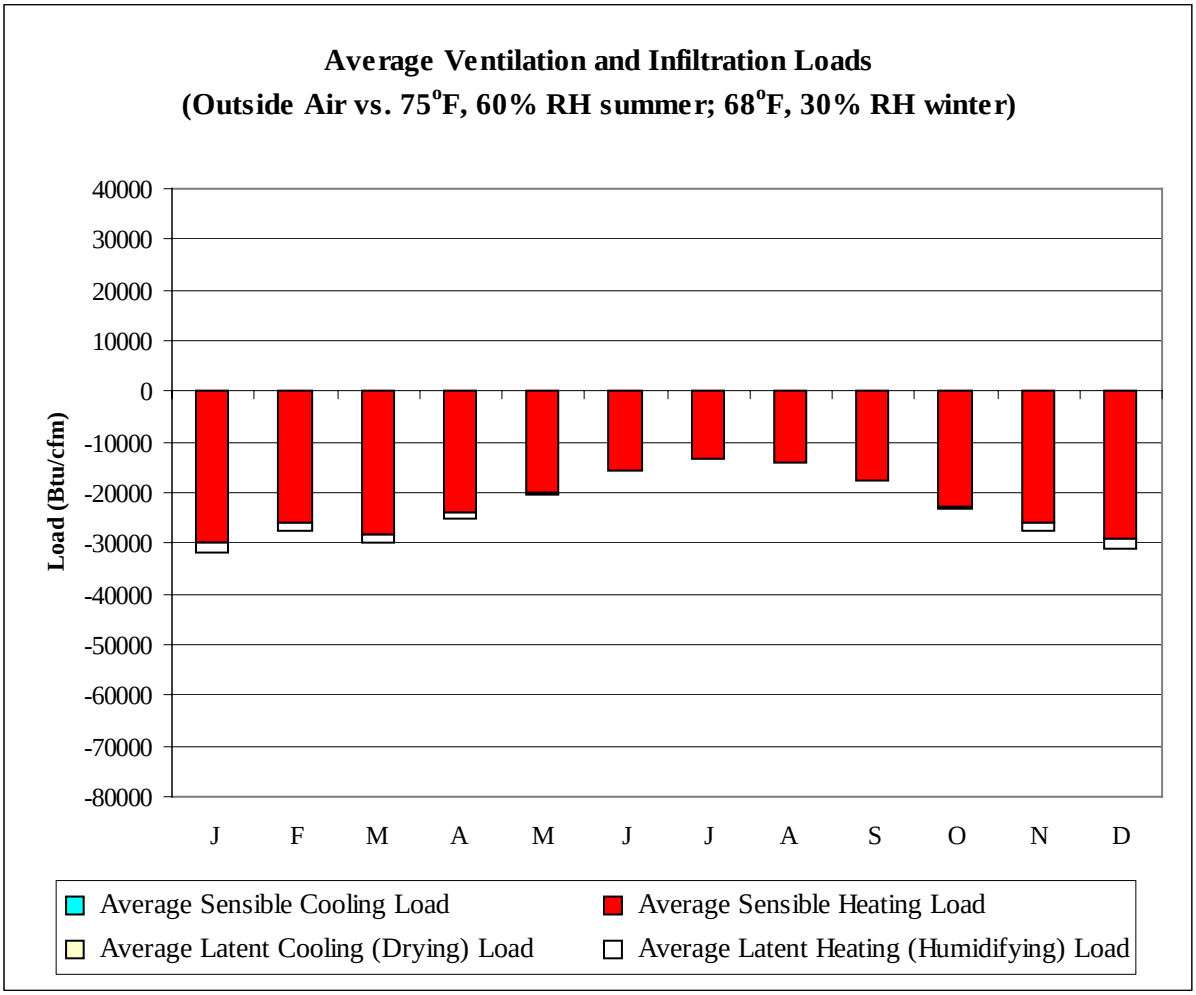
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	46.0	45.0	34.6	26.7	12.0	43.4	46.1	24.9	16.6
14-Jan	46.0	45.1	35.3	27.2	14.0	44.1	46.6	25.4	16.8
21-Jan	45.0	43.5	34.8	26.6	12.0	42.0	45.3	25.4	16.7
28-Jan	46.0	44.6	33.9	25.9	12.0	42.0	44.9	24.0	15.8
4-Feb	46.0	44.9	35.2	26.5	12.0	41.3	45.1	25.2	16.2
11-Feb	45.0	42.3	36.2	28.5	15.0	39.2	43.0	26.0	17.6
18-Feb	45.0	42.2	36.8	29.1	17.0	39.2	44.2	26.6	18.4
25-Feb	46.0	45.1	37.5	29.2	19.0	44.1	45.5	27.4	18.5
4-Mar	46.0	44.2	36.6	28.0	14.0	42.7	45.3	27.1	17.9
11-Mar	46.0	43.6	37.3	29.0	16.0	41.3	44.8	27.8	18.9
18-Mar	45.0	41.8	36.6	28.6	14.0	40.6	44.1	26.4	18.4
25-Mar	45.0	42.9	36.3	27.6	14.0	42.0	44.7	25.1	16.6
1-Apr	45.0	42.2	37.4	29.0	18.0	38.5	43.4	25.9	18.0
8-Apr	48.0	45.9	39.5	31.0	19.0	44.1	46.2	28.8	19.9
15-Apr	48.0	44.6	40.4	31.9	19.0	43.4	46.2	29.5	21.0
22-Apr	50.0	44.8	42.0	33.7	23.0	43.4	46.0	30.8	22.2
29-Apr	48.0	44.2	42.8	34.3	23.0	43.4	46.8	30.8	22.3
6-May	50.0	45.0	43.8	35.2	23.0	44.8	47.4	32.0	23.6
13-May	54.0	46.8	45.9	36.5	28.0	46.9	48.7	33.6	24.8
20-May	57.0	49.4	48.2	39.3	30.0	47.6	49.3	36.6	28.2
27-May	57.0	50.3	50.4	41.2	35.0	50.4	52.1	38.9	30.3
3-Jun	57.0	50.0	50.4	41.5	35.0	50.4	51.2	40.4	31.3
10-Jun	58.0	49.0	51.1	42.8	37.0	51.8	51.2	41.6	33.0
17-Jun	57.0	47.4	51.7	44.1	39.0	53.9	51.8	44.3	35.3
24-Jun	59.0	51.1	52.6	44.9	40.0	53.9	53.6	45.2	36.5
1-Jul	59.0	51.8	53.2	45.1	41.0	55.3	52.5	46.0	36.5
8-Jul	63.0	56.6	55.2	47.0	43.0	65.8	61.2	49.3	38.9
15-Jul	63.0	55.4	55.4	47.5	43.0	62.3	57.7	50.6	41.6
22-Jul	61.0	52.2	55.3	47.4	42.0	60.9	56.2	50.9	40.4
29-Jul	63.0	54.0	55.6	47.8	44.0	62.3	55.7	51.4	41.9
5-Aug	64.0	57.8	55.5	47.8	44.0	65.1	63.0	51.5	42.3
12-Aug	60.0	52.0	55.0	47.5	43.0	63.0	56.1	51.9	41.8
19-Aug	61.0	54.3	55.1	47.1	43.0	60.9	56.3	50.6	41.0
26-Aug	59.0	52.6	54.3	45.6	40.0	60.9	56.5	48.4	38.8
2-Sep	57.0	52.4	52.5	44.4	37.0	60.9	54.6	46.7	36.4
9-Sep	55.0	50.5	51.1	42.6	36.0	56.7	53.4	42.7	33.8
16-Sep	55.0	51.7	50.1	42.0	35.0	58.8	53.9	42.1	32.5
23-Sep	55.0	51.3	49.3	41.3	34.0	55.3	53.0	40.6	31.6
30-Sep	54.0	52.3	47.2	38.9	30.0	52.5	55.5	37.8	28.2
7-Oct	54.0	49.4	46.3	38.3	27.0	51.1	50.4	36.3	27.1
14-Oct	51.0	48.4	43.3	35.5	25.0	49.7	50.5	33.2	24.5
21-Oct	52.0	46.5	43.3	35.5	23.0	49.0	49.5	34.1	24.7
28-Oct	51.0	48.0	42.8	35.4	27.0	51.1	49.7	33.6	24.6
4-Nov	50.0	46.6	41.3	33.3	21.0	47.6	48.8	32.0	22.7
11-Nov	49.0	46.5	39.6	32.2	19.0	46.9	47.9	30.2	21.4
18-Nov	48.0	45.7	37.4	29.7	18.0	44.1	46.4	27.5	19.1
25-Nov	46.0	44.9	36.1	28.6	16.0	44.8	46.3	26.4	18.0
2-Dec	48.0	46.5	38.9	31.1	16.0	46.2	47.7	30.1	20.6
9-Dec	47.0	45.7	37.2	30.1	18.0	44.8	46.4	27.9	19.1
16-Dec	47.0	45.2	36.8	28.6	14.0	43.4	46.8	26.6	17.9
23-Dec	45.0	43.2	32.5	24.6	12.0	40.6	44.3	22.1	14.3
31-Dec	46.0	44.3	34.2	26.1	15.0	42.0	44.8	24.1	15.5

REYKJAVIK, ICELAND WMO No. 040300



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1061
FEB	0	916
MAR	0	997
APR	0	841
MAY	0	674
JUN	0	509
JUL	0	424
AUG	0	447
SEP	0	588
OCT	0	779
NOV	0	917
DEC	0	1036
ANN	0	9189

REYKJAVIK, ICELAND WMO No. 040300



	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	-29898	0	-1871
FEB	0	-25916	0	-1520
MAR	0	-28255	0	-1659
APR	0	-24142	0	-1150
MAY	0	-19875	0	-507
JUN	0	-15539	0	-84
JUL	0	-13386	0	-13
AUG	0	-14002	0	-22
SEP	0	-17539	0	-266
OCT	0	-22590	0	-743
NOV	0	-26076	0	-1325
DEC	0	-29255	0	-1778
ANN	0	-266473	0	-10938

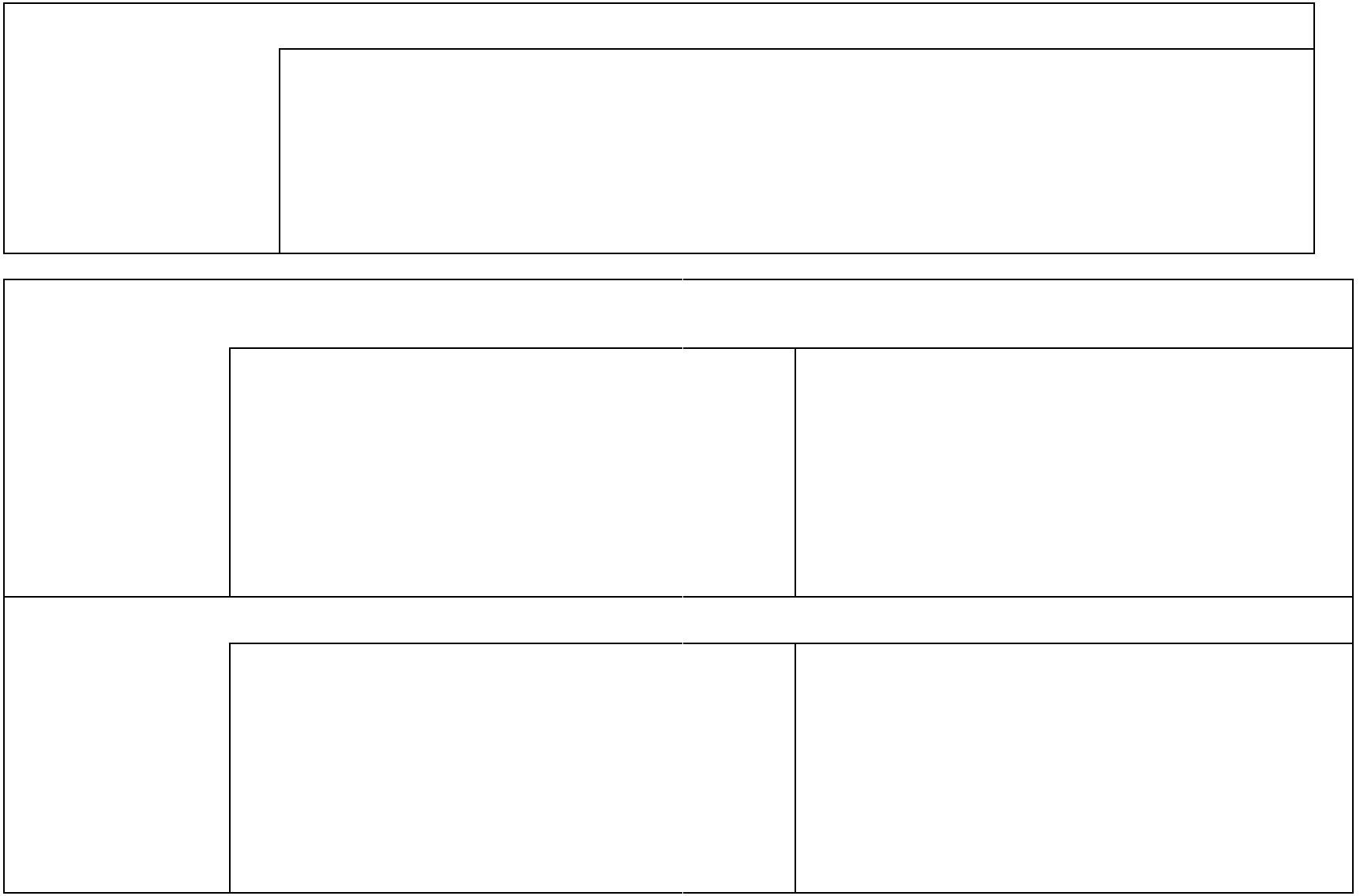
Average Annual Solar Radiation – Nearest Available Site

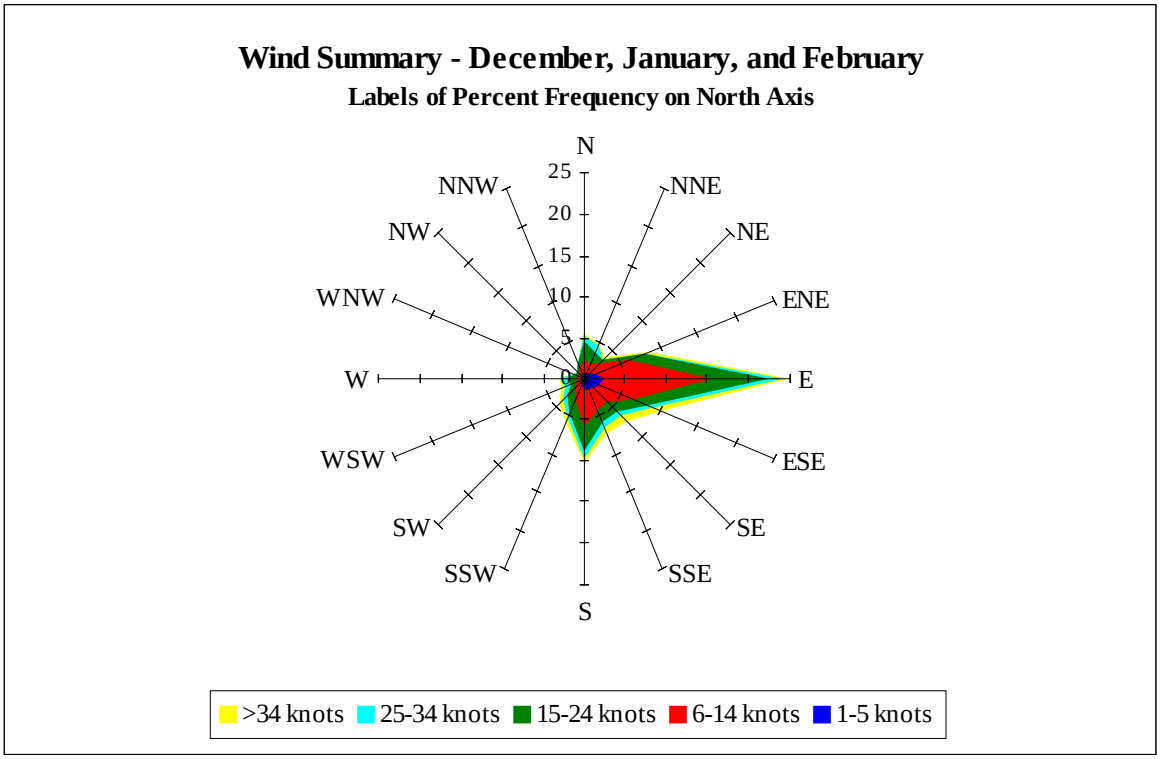
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

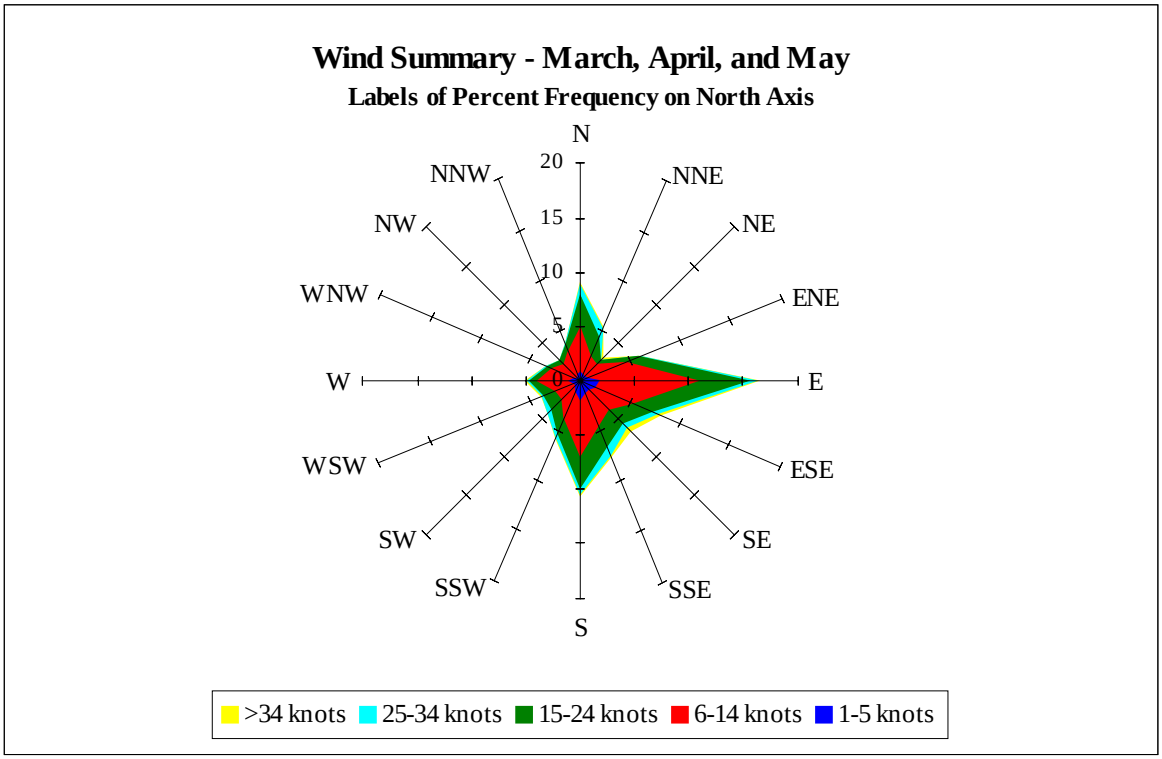
Average Annual Solar Heat and Illumination – Nearest Available Site

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

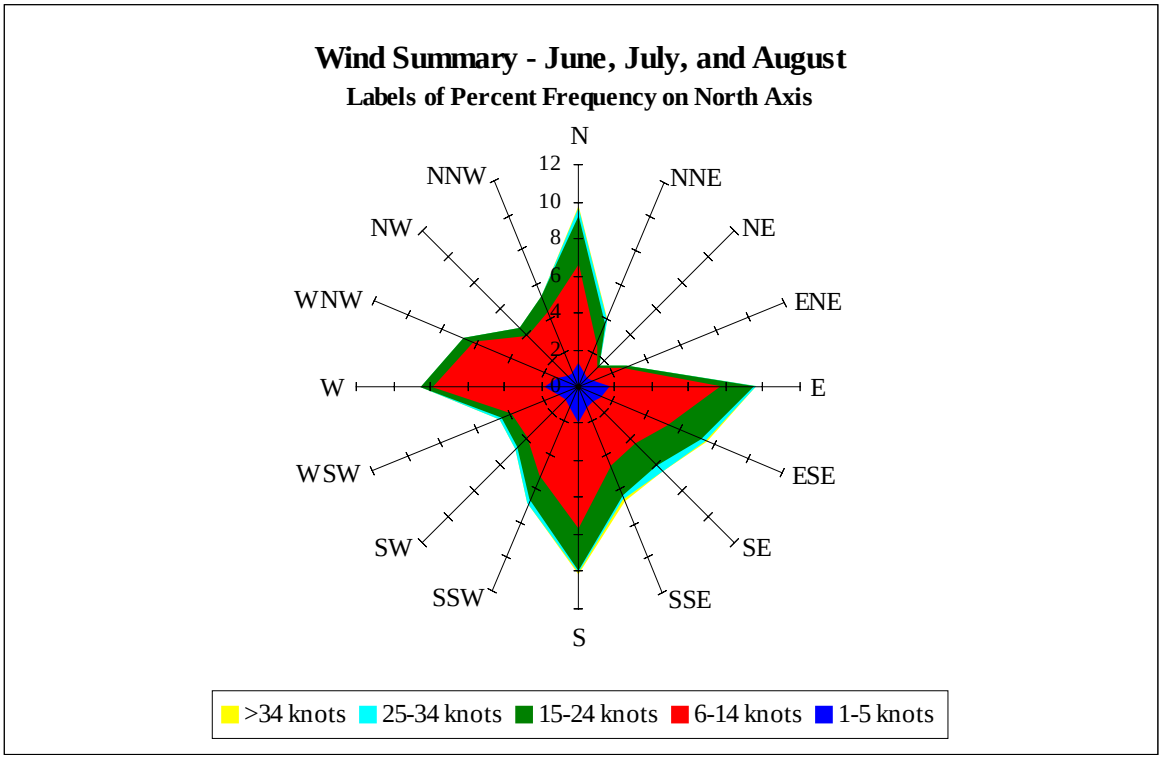




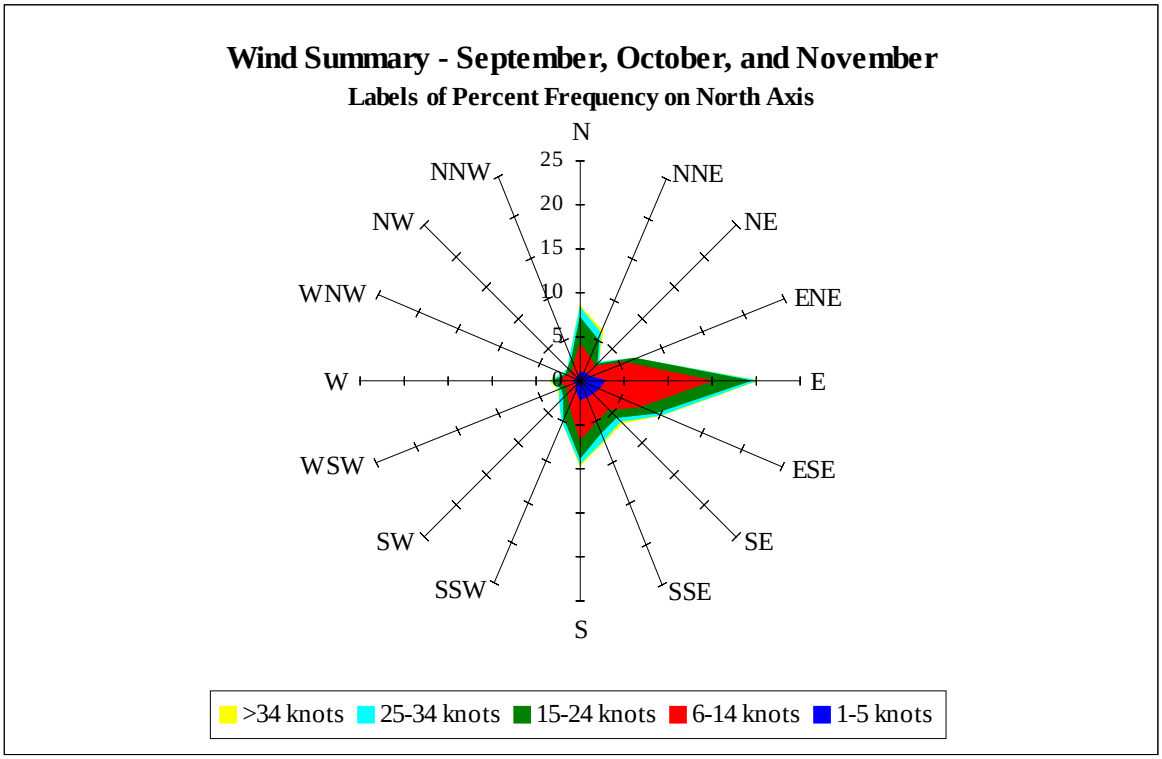
Percent Calm = 0.97



Percent Calm = 0.81



Percent Calm = 0.94



Percent Calm = 0.93