

SALZBURG, AUSTRIA

Latitude = 47.80 N

Longitude = 13.00 E

Period of Record = 1973 to 1996

WMO No. 111500

Elevation = 1476 feet

Average Pressure = 28.45 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	90	69	78	6.3	N
0.4% Occurrence	86	67	76	6.7	N
1.0% Occurrence	82	65	71	6.4	N
2.0% Occurrence	79	64	69	6.4	VARIABLE
Mean Daily Range	16	-	-	-	-
97.5% Occurrence	19	18	13	3.5	VARIABLE
99.0% Occurrence	14	13	10	2.9	VARIABLE
99.6% Occurrence	8	7	8	2.4	VARIABLE
Median of Extreme Lows	3	3	6	2.3	VARIABLE
	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	72	87	96	6.3	N
0.4% Occurrence	68	82	84	5.8	N
1.0% Occurrence	67	79	82	5.7	VARIABLE
2.0% Occurrence	65	76	78	5.6	VARIABLE
	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	102	78	0.65	4.5	VARIABLE
0.4% Occurrence	90	73	0.57	5.3	VARIABLE
1.0% Occurrence	89	72	0.57	5.1	VARIABLE
2.0% Occurrence	83	70	0.54	5.0	SSE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		3	159	2	95

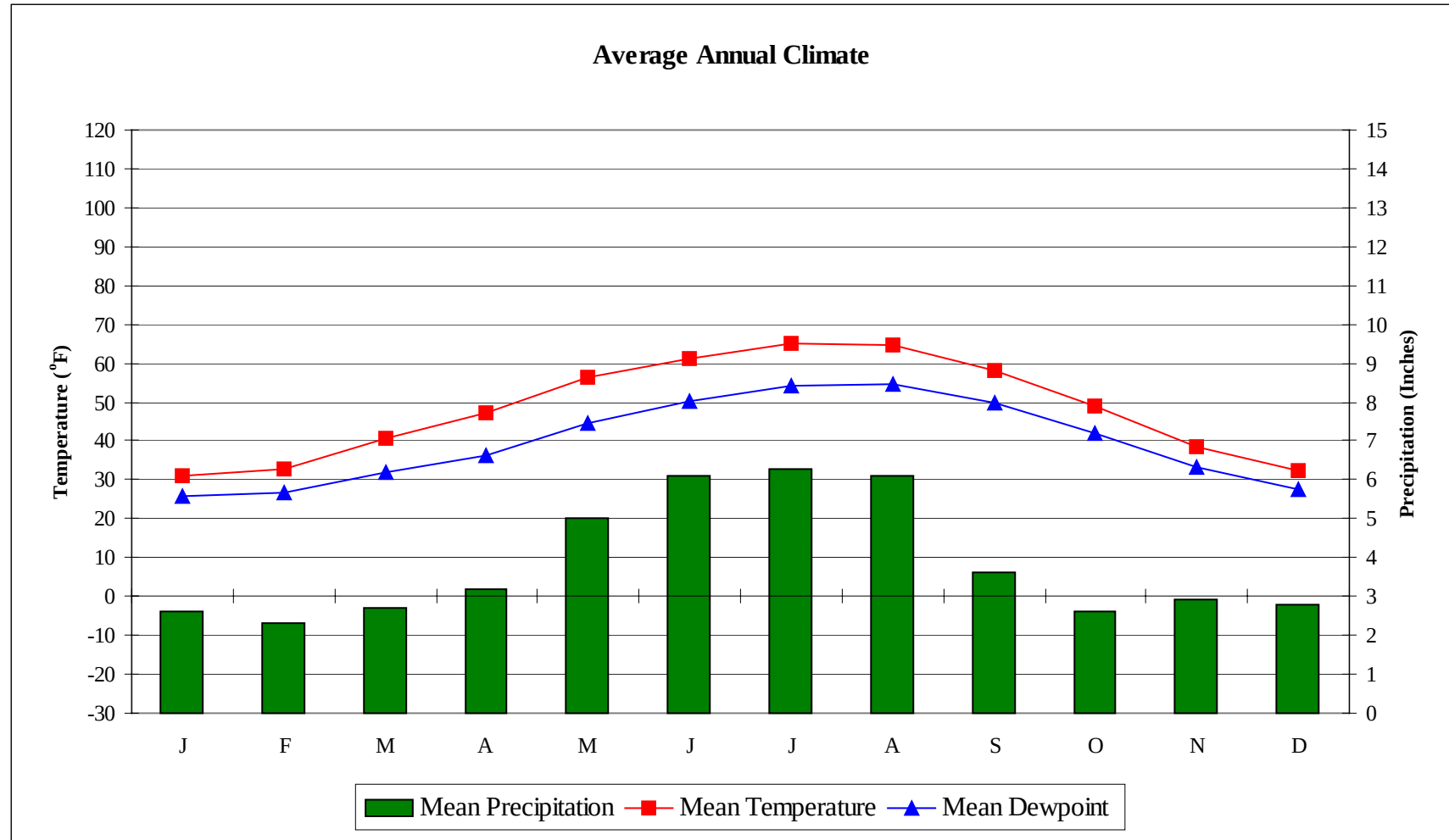
Other Site Data

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	N/A	N/A	0.1 + 0.2
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 (#)
50.7	N/A	N/A	51

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

SALZBURG, AUSTRIA

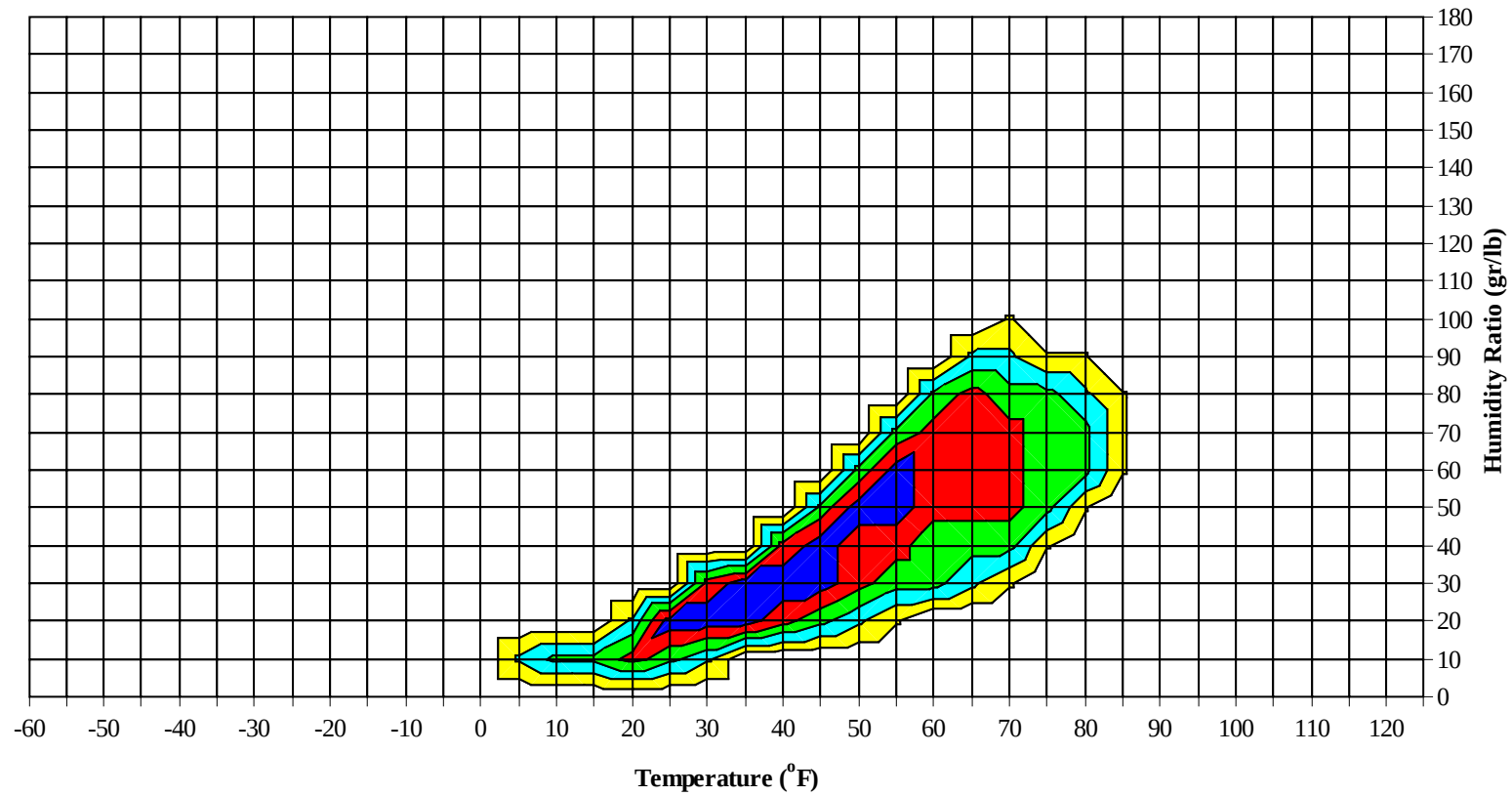
WMO No. 111500



SALZBURG, AUSTRIA

WMO No. 111500

Long Term Psychrometric Summary

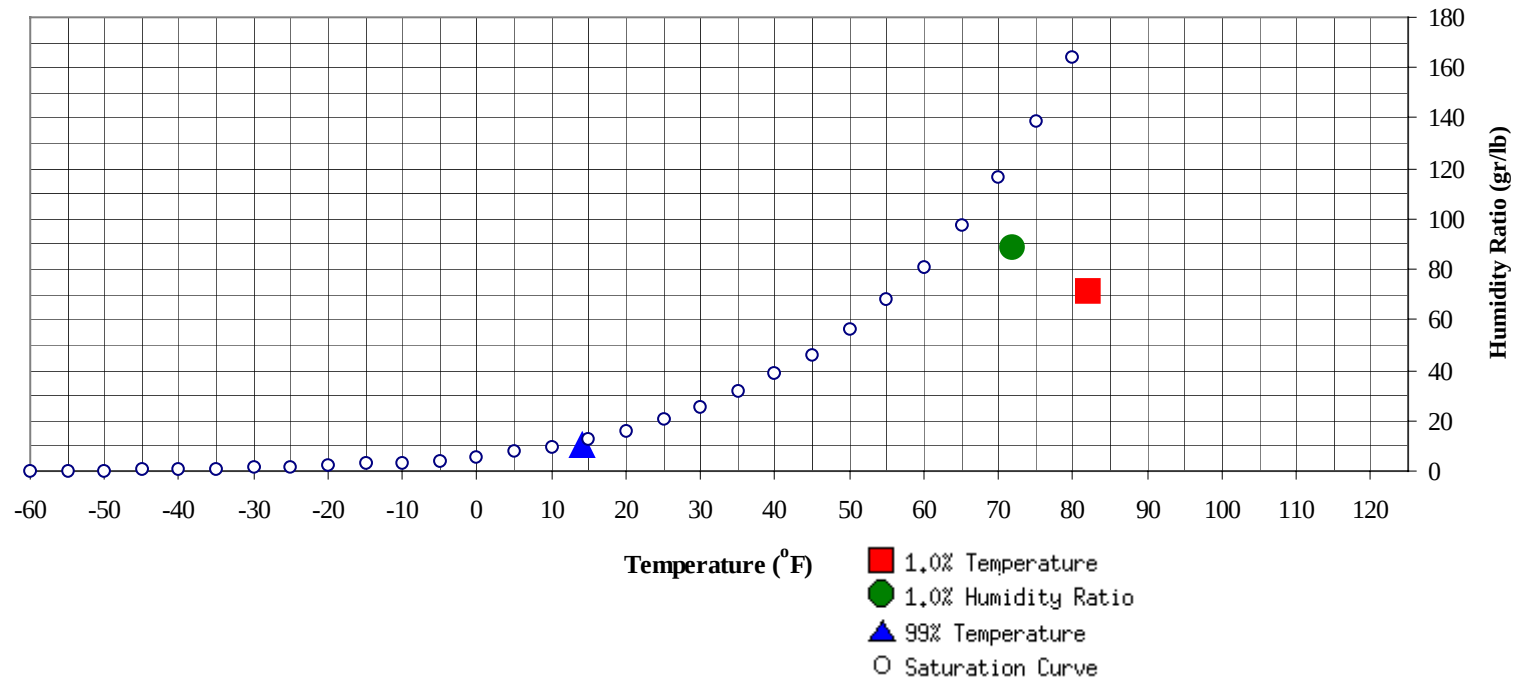


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

SALZBURG, AUSTRIA

WMO No. 111500

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	14	10.3	4.9		88.9	71.9	65.6	62.6	31.1

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	82	71.3	65.4	30.9

SALZBURG, AUSTRIA

WMO No. 111500

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		
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79												0	0	0	56.6
70 / 74							0		0	53.0		3	1	4	54.9
65 / 69							0	0	0	51.1		5	2	7	52.2
60 / 64		0		0	47.3		2	1	3	49.3	0	15	6	21	49.8
55 / 59	0	1	1	2	45.1	0	5	1	6	46.4	2	23	14	39	47.0
50 / 54	2	6	3	11	42.9	1	12	5	18	43.0	9	34	27	70	44.6
45 / 49	5	18	9	32	40.8	4	23	14	41	40.5	29	43	43	114	41.8
40 / 44	17	29	25	71	38.3	14	28	21	63	38.1	35	39	37	111	38.4
35 / 39	47	56	49	152	34.6	47	53	56	156	34.7	62	49	58	168	34.9
30 / 34	62	62	70	193	30.4	60	53	59	172	30.4	70	28	46	144	30.8
25 / 29	49	40	48	137	25.6	43	29	36	109	25.5	27	7	12	46	25.6
20 / 24	21	15	16	52	21.2	18	10	14	42	21.0	7	2	3	12	21.0
15 / 19	22	13	12	47	16.8	17	5	9	31	16.9	5	1	1	7	16.9
10 / 14	12	5	9	26	11.9	10	2	6	18	11.9	1	0	0	1	11.5
5 / 9	7	3	4	14	6.6	6	1	2	9	6.6	1		0	1	6.9
0 / 4	3	1	1	5	1.4	3	0	0	3	1.8	0			0	3.0
-5 / -1	0	0	0	0	-2.6	0			0	-3.1					
-10 / -6	1	0	0	1	-7.8										
-15 / -11	0	0		0	-11.4										
-20 / -16															

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.

SALZBURG, AUSTRIA

WMO No. 111500

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		
95 / 99												0	0	0	68.5
90 / 94							0		0	62.3		1	0	1	69.7
85 / 89							1	0	1	64.9		3	1	4	67.1
80 / 84		0	0	0	59.5		5	2	7	62.4	0	19	7	26	64.4
75 / 79		3	1	4	57.7	0	20	8	28	59.9	0	30	16	46	62.3
70 / 74		11	4	15	54.6	0	39	19	58	57.4	3	40	24	67	59.9
65 / 69	0	15	6	21	52.8	2	34	21	57	55.3	12	32	26	70	58.5
60 / 64	2	30	17	49	50.4	15	49	41	105	53.4	43	43	51	137	56.7
55 / 59	7	35	26	68	48.0	47	40	56	143	51.5	73	42	62	176	53.3
50 / 54	26	38	43	107	45.6	75	33	51	159	48.4	77	24	39	140	49.7
45 / 49	49	44	48	141	42.3	63	20	36	119	44.3	27	6	12	45	45.2
40 / 44	49	30	42	121	38.9	31	6	12	49	40.2	5	1	1	7	41.3
35 / 39	67	29	40	136	35.6	13	2	3	18	36.6	1	0		1	37.5
30 / 34	36	5	13	54	31.6	1	0	0	1	31.8					
25 / 29	4		0	4	27.0										
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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.

SALZBURG, AUSTRIA

WMO No. 111500

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		
95 / 99		1	0	1	68.9		0	0	0	70.3					
90 / 94		4	1	5	68.9		3	1	4	69.5		0		0	65.0
85 / 89	0	9	4	13	67.7		7	3	10	68.6		1	0	1	66.3
80 / 84	0	28	13	41	65.5		26	11	37	66.2		6	1	7	65.4
75 / 79	1	46	25	72	63.5	1	44	21	66	63.9		22	6	28	63.1
70 / 74	8	54	39	101	61.3	7	53	37	97	62.0	0	34	15	49	60.7
65 / 69	27	32	41	100	60.2	23	37	40	100	60.6	3	32	20	55	58.8
60 / 64	78	37	62	177	58.0	80	42	68	190	58.4	30	53	54	137	56.8
55 / 59	85	29	45	159	54.2	84	26	46	156	54.5	72	48	67	186	53.6
50 / 54	44	9	17	70	50.5	40	9	18	67	50.4	72	32	49	152	49.4
45 / 49	4	1	1	6	45.8	11	1	3	15	45.5	49	12	25	86	45.2
40 / 44	0	0	0	0	41.3	1	0	0	1	42.0	11	1	3	15	41.1
35 / 39	0			0	38.0	0			0	39.0	3	0	0	3	37.7
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															

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.

SALZBURG, AUSTRIA

WMO No. 111500

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		
95 / 99															
90 / 94															
85 / 89															
80 / 84		0		0	61.3										
75 / 79		4		4	60.9										
70 / 74	0	10	2	12	58.6		0		0	53.1					
65 / 69	1	16	4	21	56.2	0	1	1	2	52.5	0			0	50.0
60 / 64	3	33	12	48	54.1	1	4	1	6	50.9	0		0	0	48.3
55 / 59	14	47	36	97	51.5	2	13	3	18	48.4	1	2	1	4	46.9
50 / 54	55	55	61	171	48.5	6	26	12	44	45.9	2	8	5	15	44.3
45 / 49	62	48	65	176	44.0	22	45	36	103	42.9	11	23	15	49	41.7
40 / 44	51	21	35	107	40.3	38	44	42	124	39.4	22	30	23	75	38.7
35 / 39	39	12	25	76	36.5	69	56	69	194	35.6	49	59	56	164	34.8
30 / 34	17	2	7	26	31.5	60	35	49	144	31.1	66	62	71	199	30.6
25 / 29	5	0	0	5	27.1	29	13	21	63	26.0	48	39	44	131	25.8
20 / 24	0			0	23.0	8	3	4	15	21.5	20	13	14	47	21.4
15 / 19						3	0	2	5	17.3	15	8	12	35	16.8
10 / 14						1	0	0	1	12.4	7	3	5	15	12.0
5 / 9											4	1	2	7	6.6
0 / 4											1	0	1	2	1.2
-5 / -1											1	0	0	1	-3.1
-10 / -6											0	0	0	0	-6.6
-15 / -11											0	0		0	-11.7
-20 / -16											0			0	-15.0

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.

SALZBURG, AUSTRIA

WMO No. 111500

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

Period of Record = 1973 to 1996

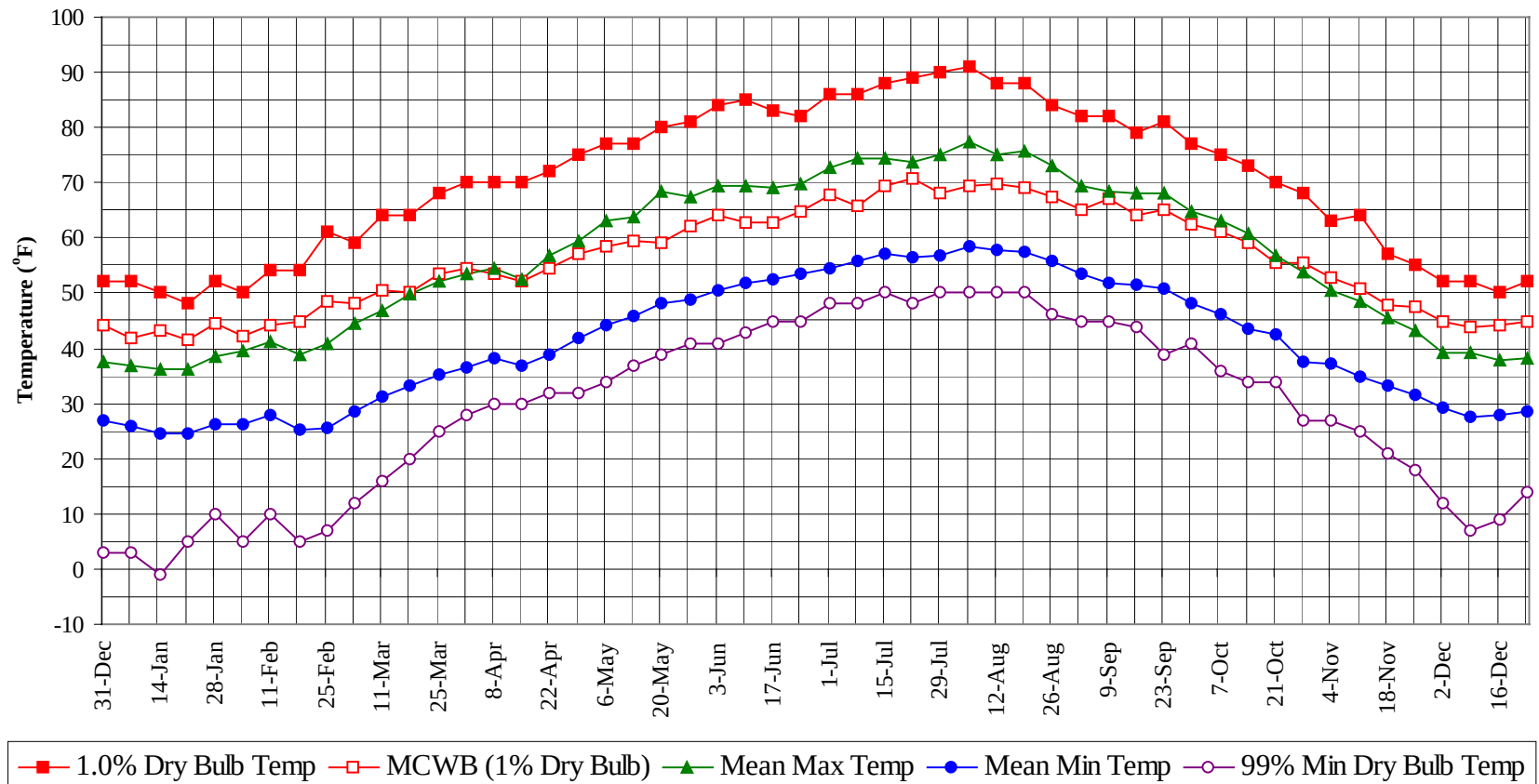
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99		1	0	1	69.2
90 / 94		8	3	11	69.1
85 / 89	0	21	8	29	67.8
80 / 84	0	85	34	119	65.3
75 / 79	2	168	76	246	62.8
70 / 74	20	243	139	402	60.2
65 / 69	68	204	160	432	58.5
60 / 64	252	306	312	871	56.2
55 / 59	386	309	357	1053	52.5
50 / 54	407	288	328	1023	48.1
45 / 49	336	285	306	927	43.2
40 / 44	275	229	242	746	39.1
35 / 39	399	315	355	1070	35.2
30 / 34	373	247	314	934	30.7
25 / 29	205	128	162	495	25.7
20 / 24	75	42	51	168	21.2
15 / 19	63	27	36	126	16.9
10 / 14	31	11	21	63	11.9
5 / 9	18	4	9	31	6.6
0 / 4	8	1	3	12	1.5
-5 / -1	1	0	1	2	-2.9
-10 / -6	1	0	0	1	-7.4
-15 / -11	1	0		1	-11.5
-20 / -16	0			0	-15.0

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.

SALZBURG, AUSTRIA

WMO No. 111500

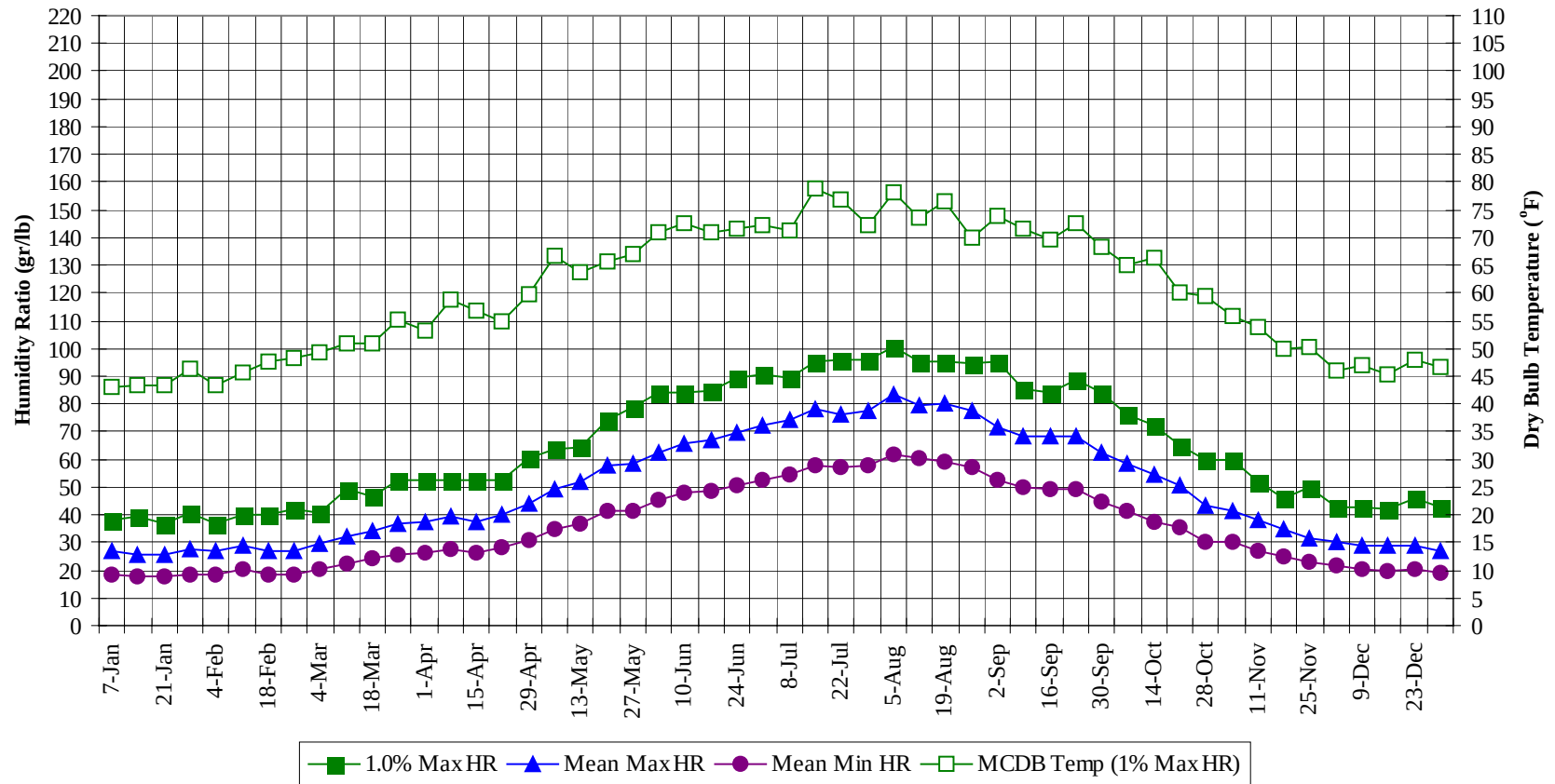
Annual Summary of Temperatures



SALZBURG, AUSTRIA

WMO No. 111500

Long Term Humidity and Dry Bulb Temperature Summary



SALZBURG, AUSTRIA

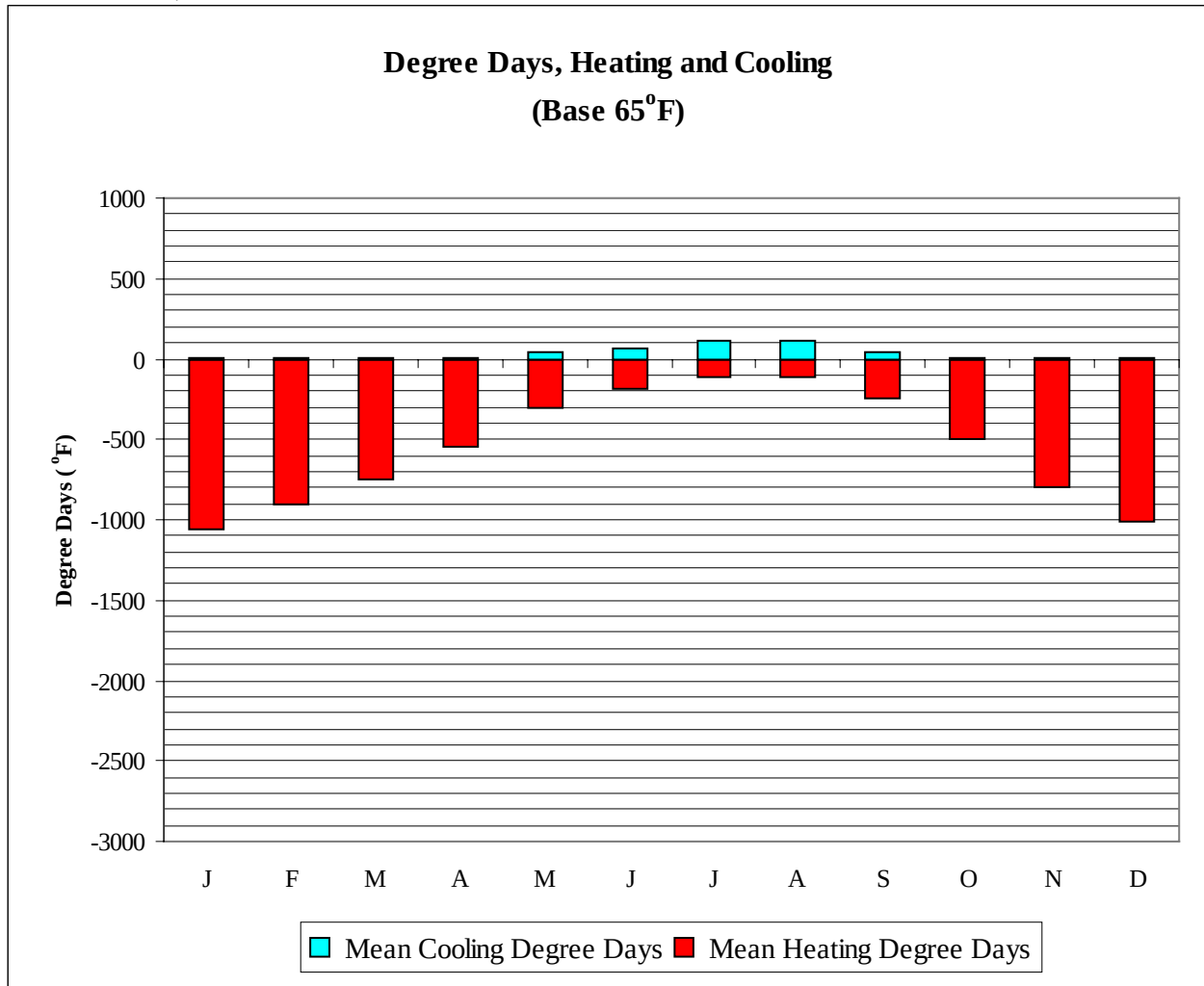
WMO No. 111500

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	52.0	42.0	36.8	26.0	3.0	37.8	43.1	26.6	18.4
14-Jan	50.0	43.2	36.1	24.4	-1.0	39.2	43.5	25.7	17.7
21-Jan	48.0	41.4	36.1	24.6	5.0	37.1	43.4	25.3	17.7
28-Jan	52.0	44.4	38.6	26.4	10.0	40.6	46.4	27.4	18.4
4-Feb	50.0	42.3	39.4	26.1	5.0	37.1	43.2	27.1	18.7
11-Feb	54.0	44.2	41.1	28.0	10.0	39.9	45.8	29.0	20.3
18-Feb	54.0	44.8	39.0	25.3	5.0	39.9	47.5	27.0	18.4
25-Feb	61.0	48.5	41.0	25.7	7.0	42.0	48.4	27.1	18.3
4-Mar	59.0	48.3	44.6	28.7	12.0	40.6	49.3	29.6	20.1
11-Mar	64.0	50.3	46.7	31.4	16.0	49.0	50.9	32.0	22.5
18-Mar	64.0	50.3	49.8	33.2	20.0	46.9	50.8	34.2	24.2
25-Mar	68.0	53.4	52.2	35.3	25.0	52.5	55.0	37.0	25.5
1-Apr	70.0	54.6	53.4	36.7	28.0	52.5	53.2	37.6	26.2
8-Apr	70.0	53.5	54.4	38.1	30.0	52.5	58.9	39.7	27.5
15-Apr	70.0	52.2	52.5	36.9	30.0	52.5	56.8	37.3	26.4
22-Apr	72.0	54.6	56.7	38.7	32.0	52.5	55.0	40.0	28.2
29-Apr	75.0	57.1	59.4	41.8	32.0	60.2	59.8	44.1	31.0
6-May	77.0	58.5	63.0	44.2	34.0	63.7	66.8	49.6	34.9
13-May	77.0	59.6	63.9	46.0	37.0	64.4	63.6	51.7	36.9
20-May	80.0	59.0	68.4	48.1	39.0	74.2	65.8	58.1	41.4
27-May	81.0	62.1	67.3	48.8	41.0	79.1	67.0	58.4	41.7
3-Jun	84.0	64.3	69.3	50.4	41.0	84.0	70.9	62.1	45.3
10-Jun	85.0	62.8	69.4	51.9	43.0	84.0	72.6	65.9	47.9
17-Jun	83.0	62.7	69.2	52.6	45.0	84.7	70.8	66.7	48.8
24-Jun	82.0	64.8	69.6	53.4	45.0	89.6	71.5	69.9	50.7
1-Jul	86.0	67.8	72.7	54.6	48.0	90.3	72.3	72.2	52.6
8-Jul	86.0	65.7	74.3	55.9	48.0	89.6	71.1	74.2	54.8
15-Jul	88.0	69.3	74.4	57.3	50.0	95.2	78.8	78.1	57.9
22-Jul	89.0	70.7	73.8	56.6	48.0	95.9	77.0	76.3	57.0
29-Jul	90.0	68.1	75.2	56.9	50.0	95.9	72.3	77.4	57.6
5-Aug	91.0	69.3	77.4	58.5	50.0	100.8	78.1	83.2	61.6
12-Aug	88.0	69.7	75.0	57.7	50.0	95.2	73.6	79.7	60.2
19-Aug	88.0	69.0	75.9	57.4	50.0	95.2	76.4	80.3	59.3
26-Aug	84.0	67.5	73.1	55.8	46.0	94.5	69.8	77.7	57.0
2-Sep	82.0	65.2	69.5	53.4	45.0	95.2	73.7	71.6	52.6
9-Sep	82.0	67.0	68.3	51.7	45.0	85.4	71.5	68.4	49.7
16-Sep	79.0	64.0	68.0	51.3	44.0	84.0	69.6	68.2	49.0
23-Sep	81.0	65.0	68.0	50.7	39.0	88.9	72.6	68.5	49.3
30-Sep	77.0	62.5	64.7	48.3	41.0	84.0	68.2	62.5	44.8
7-Oct	75.0	61.0	63.0	46.1	36.0	76.3	65.0	58.7	41.1
14-Oct	73.0	59.1	60.8	43.6	34.0	72.1	66.2	54.4	37.7
21-Oct	70.0	55.5	56.7	42.4	34.0	65.1	60.2	50.3	35.7
28-Oct	68.0	55.3	53.8	37.5	27.0	59.5	59.5	43.3	30.2
4-Nov	63.0	52.8	50.6	37.1	27.0	59.5	55.9	41.6	30.1
11-Nov	64.0	51.0	48.6	34.9	25.0	51.8	54.0	38.2	27.1
18-Nov	57.0	48.0	45.4	33.3	21.0	46.2	49.8	35.1	25.0
25-Nov	55.0	47.5	43.1	31.4	18.0	49.7	50.4	31.8	23.2
2-Dec	52.0	44.7	39.2	29.1	12.0	42.7	46.1	30.0	22.0
9-Dec	52.0	44.0	39.1	27.7	7.0	42.7	46.8	28.6	20.3
16-Dec	50.0	44.2	37.8	27.8	9.0	42.0	45.2	28.7	19.9
23-Dec	52.0	45.0	38.2	28.5	14.0	46.2	47.8	29.0	20.4
31-Dec	52.0	44.2	37.4	26.7	3.0	42.7	46.8	26.9	19.3

SALZBURG, AUSTRIA

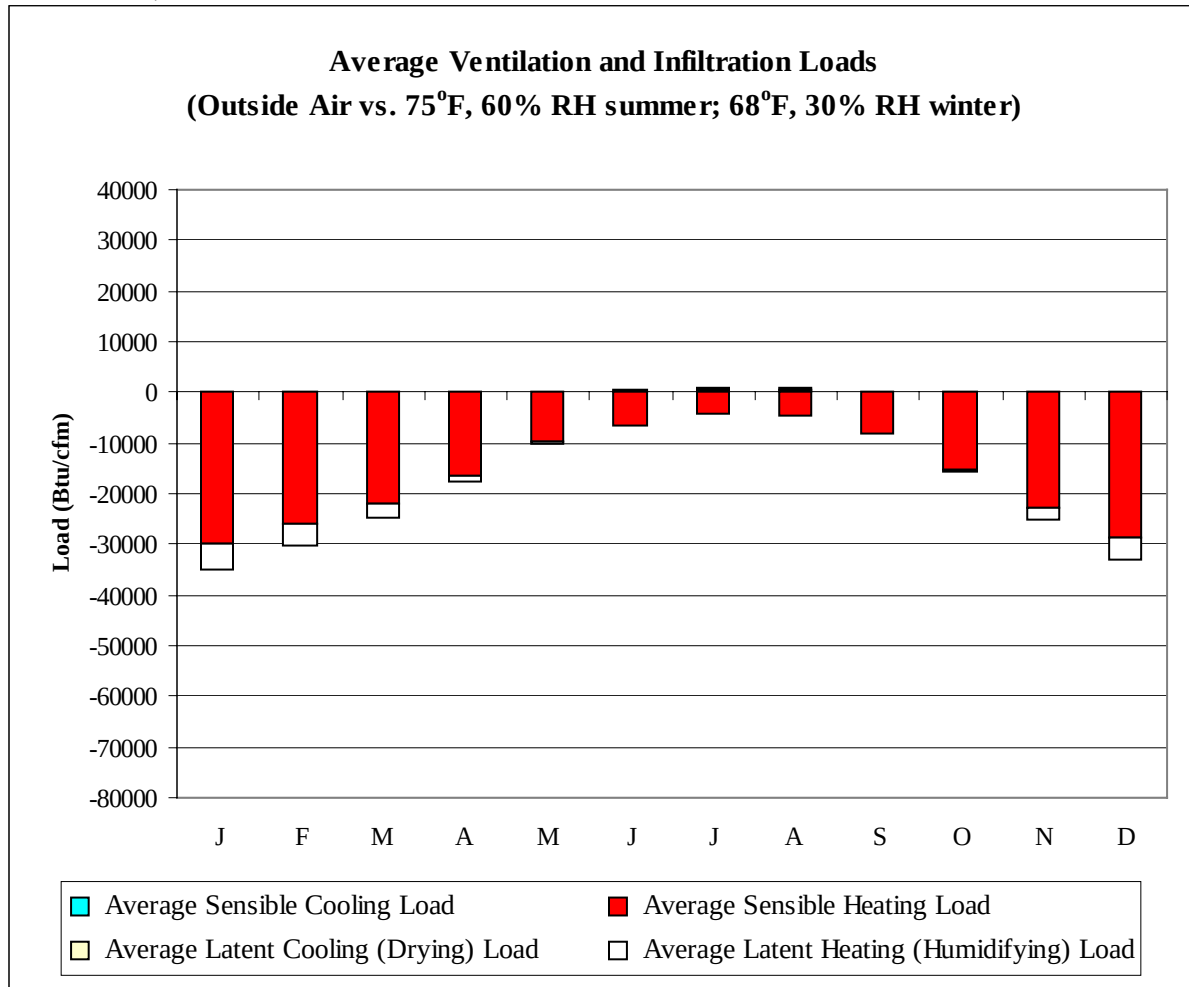
WMO No. 111500



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1058
FEB	0	910
MAR	1	751
APR	7	547
MAY	39	304
JUN	70	187
JUL	117	110
AUG	108	116
SEP	37	241
OCT	7	502
NOV	0	792
DEC	0	1009
ANN	386	6527

SALZBURG, AUSTRIA

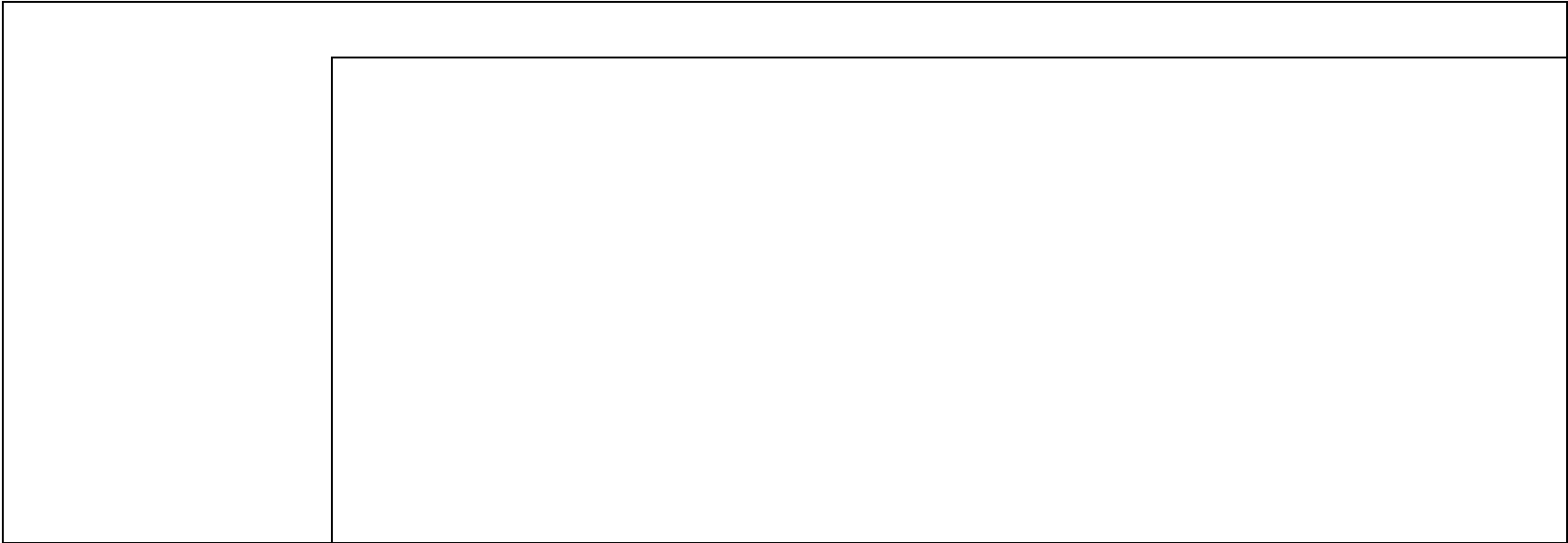
WMO No. 111500



	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	-29834	0	-5255
FEB	0	-25773	0	-4402
MAR	0	-21863	0	-2801
APR	5	-16419	0	-1231
MAY	106	-9872	4	-135
JUN	364	-6568	71	-3
JUL	702	-4302	235	0
AUG	611	-4516	292	0
SEP	110	-8189	42	-8
OCT	8	-15330	0	-381
NOV	0	-22857	0	-2238
DEC	0	-28547	0	-4345
ANN	1906	-194070	644	-20799

Average Annual Solar Radiation – Nearest Available Site
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

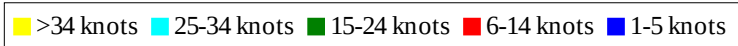
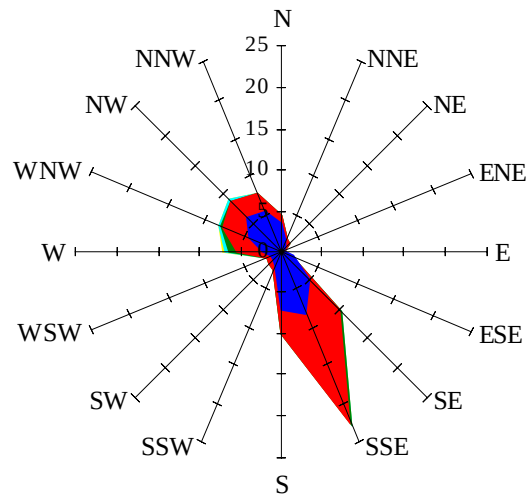


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

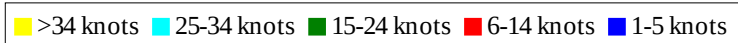
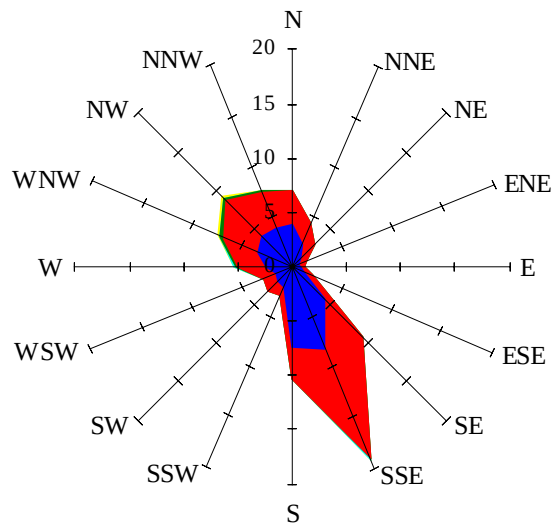
Labels of Percent Frequency on North Axis



Percent Calm = 8.78

Wind Summary - March, April, and May

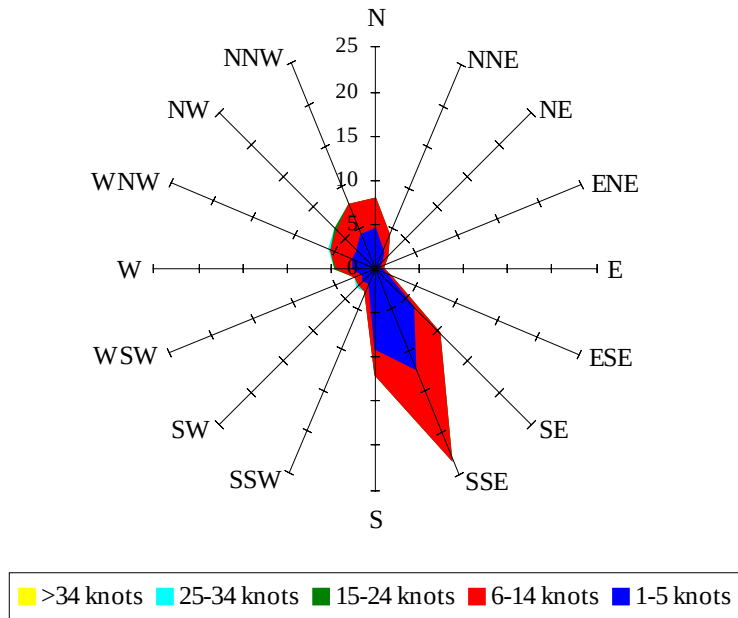
Labels of Percent Frequency on North Axis



Percent Calm = 4.79

Wind Summary - June, July, and August

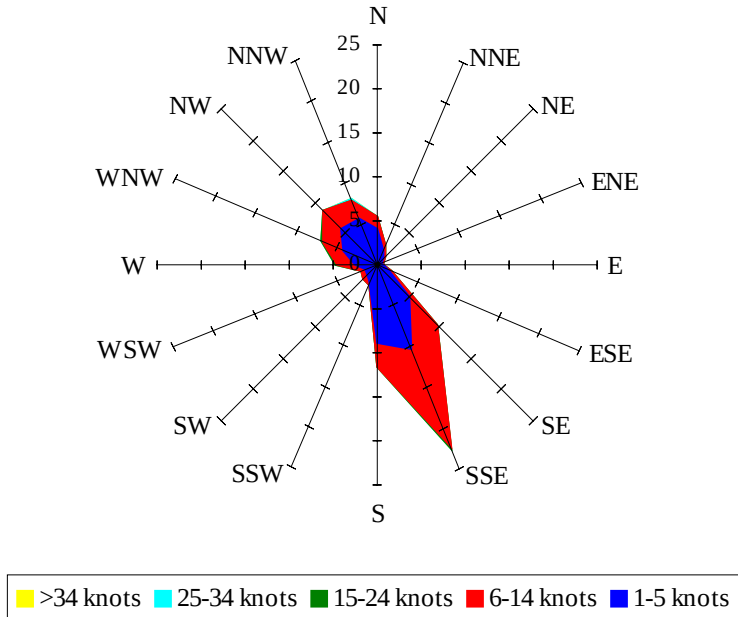
Labels of Percent Frequency on North Axis



Percent Calm = 4.52

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 8.42