NORTHOLT RAF, UK	
Latitude = 51.55 N	WMO No. 036720
Longitude = 0.42 W	Elevation = 131 feet
Period of Record = 1973 to 1996	Average Pressure = 29.82 inches Hg

Design Criteria Data

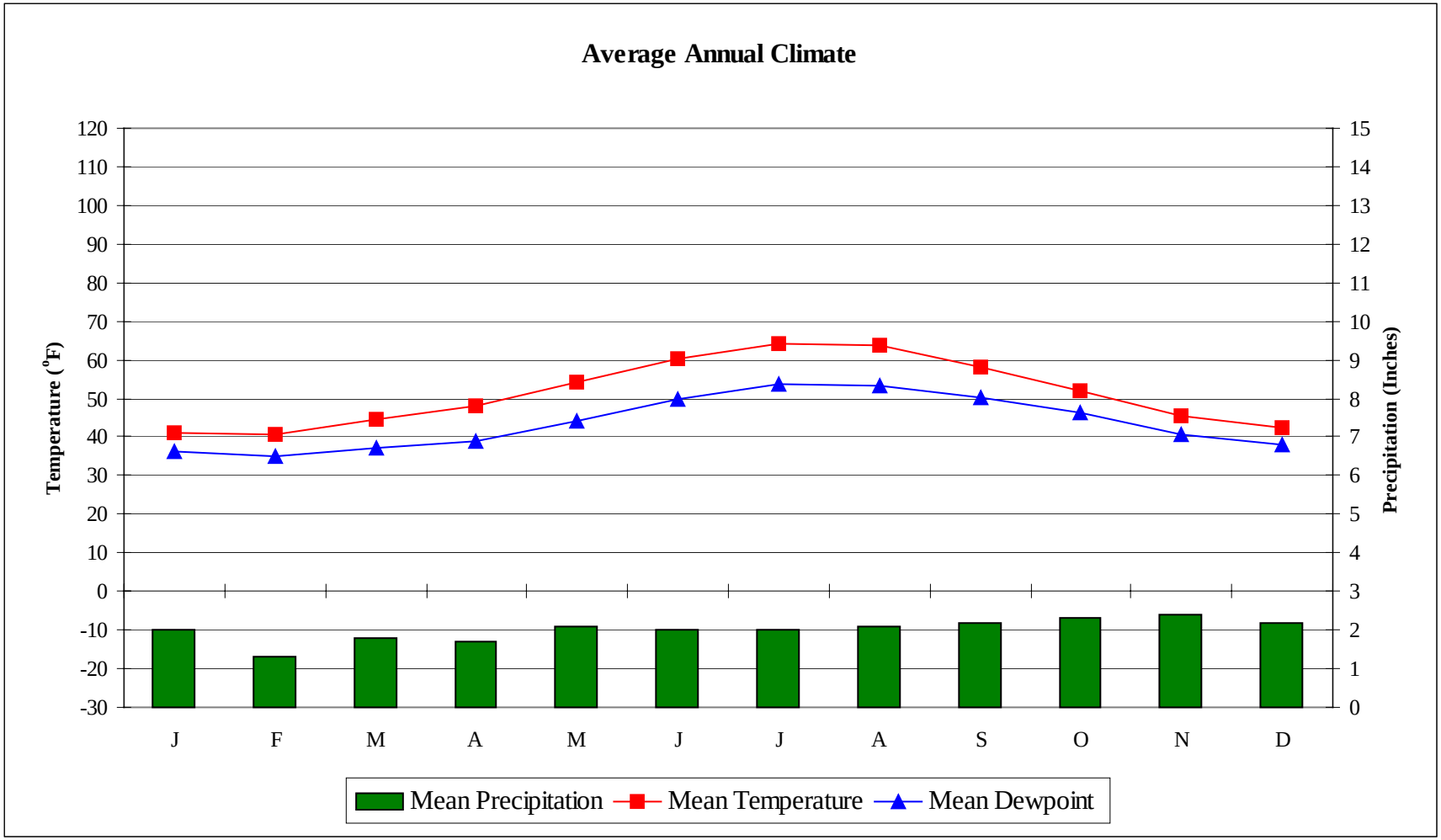
		Mean Coincident (Average) Values			
Dry Bulb Temperature (T)	**Design Value (^oF)**	Wet Bulb Temperature (^oF)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	86	66	66	9.0	E
0.4% Occurrence	82	65	68	8.5	E
1.0% Occurrence	79	64	66	8.3	E
2.0% Occurrence	76	63	65	8.9	E
Mean Daily Range	13	-	-	-	-
97.5% Occurrence	30	29	21	5.9	ENE
99.0% Occurrence	27	26	18	5.6	NNE
99.6% Occurrence	25	24	17	4.5	NE
Median of Extreme Lows	21	20	13	3.5	NNE
		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	71	84	90	7.6	E
0.4% Occurrence	68	79	83	7.6	WSW
1.0% Occurrence	66	76	79	7.8	SSW
2.0% Occurrence	64	72	74	8.3	SW
		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	94	74	0.63	6.7	WSW
0.4% Occurrence	89	72	0.60	6.5	SSW
1.0% Occurrence	84	70	0.56	7.0	SSW
2.0% Occurrence	80	69	0.54	7.6	SSW
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	1	76	0	66

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
7	N/A	N/A	0.0 + 0.1
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 (#)
54.0	N/A	N/A	28

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

NORTHOLT RAF, UK WMO No. 036720



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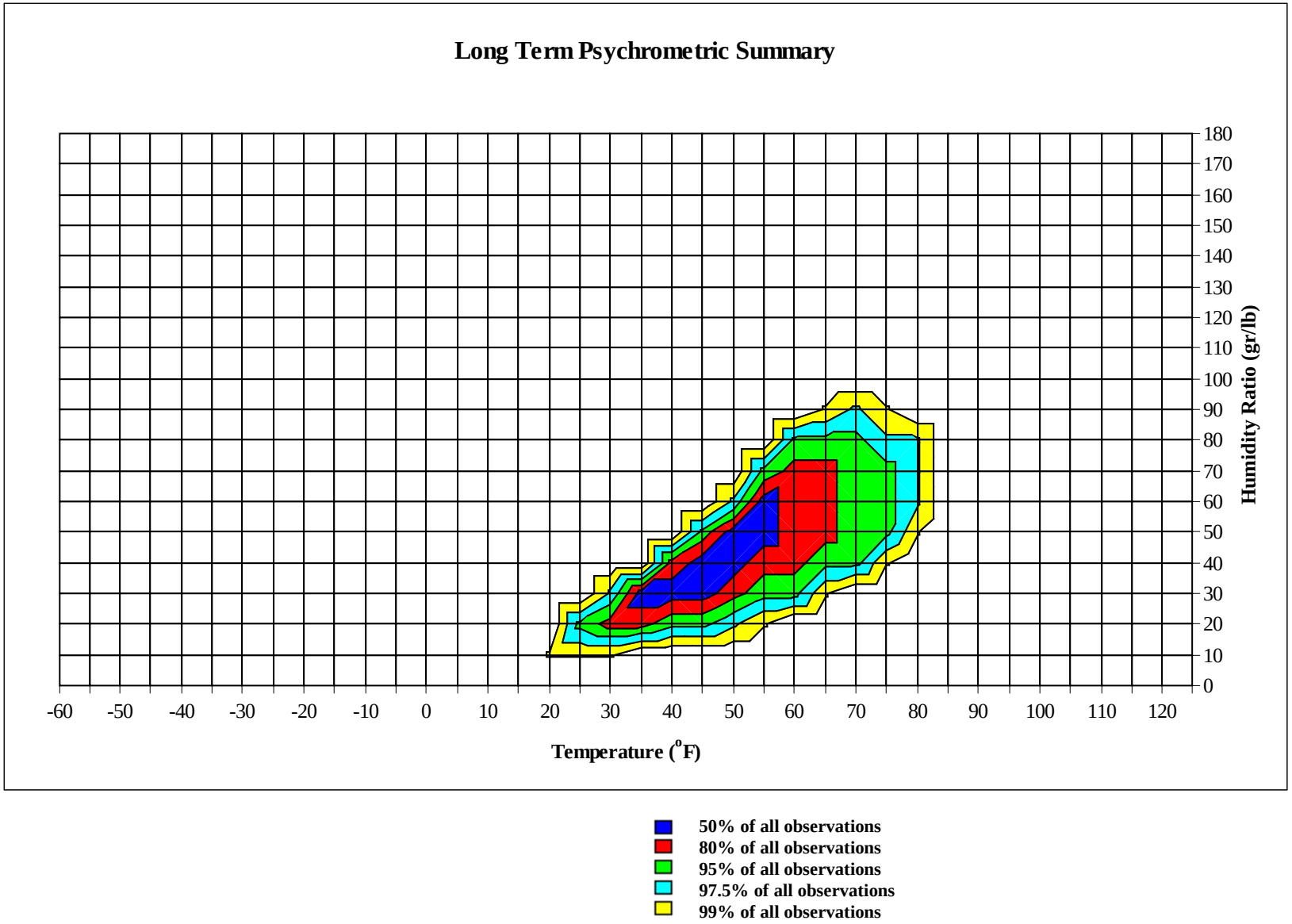

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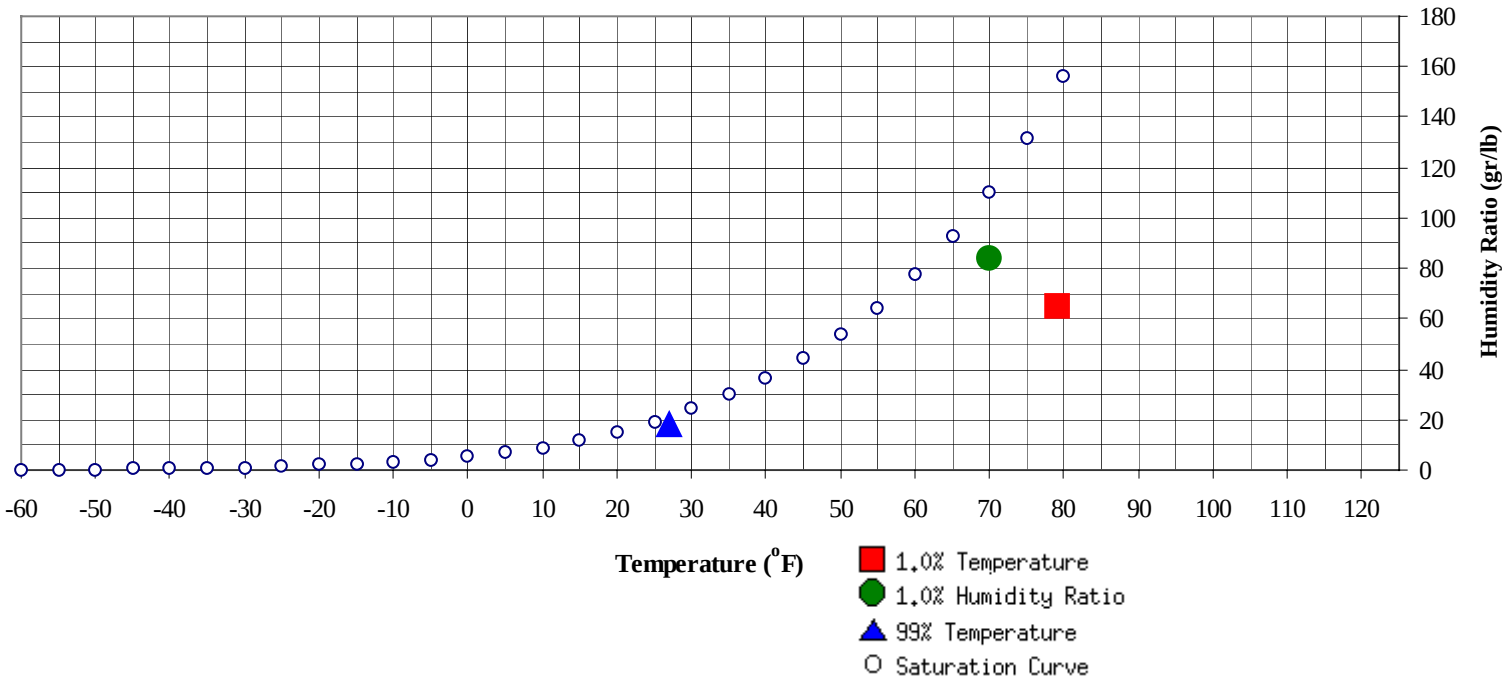
Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)
99% Dry Bulb	27	18.1	9.3

	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
1.0% Humidity Ratio	84	70	64.9	62.1	29.9

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	79	65	64	29.1

NORTHOLT RAF, UK WMO No. 036720

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)
95 / 99															
90 / 94															
85 / 89											0	0	0	0	58.0
80 / 84											0	0	0	0	57.0
75 / 79							0	0	0	54.0	0	1	0	1	53.9
70 / 74							0	0	0		0	0	0	0	53.3
65 / 69						0	1	0	1	50.0	0	2	1	3	53.8
60 / 64	0			0		0	0	0	0	51.1	1	5	3	9	51.1
55 / 59	1	2	2	5	52.0	0	4	2	6	50.6	2	23	12	36	49.6
50 / 54	20	37	31	88	48.6	9	35	23	66	47.7	21	70	45	137	46.9
45 / 49	49	72	62	183	44.2	40	60	59	158	43.8	45	80	77	203	43.1
40 / 44	51	57	57	165	39.8	41	49	51	141	39.3	67	46	63	175	39.4
35 / 39	59	50	59	168	35.5	59	46	50	155	35.0	65	19	36	121	35.2
30 / 34	43	21	28	92	31.0	49	23	32	104	30.6	37	3	9	49	30.9
25 / 29	18	7	9	34	26.1	20	5	8	33	26.0	9	0	1	10	26.9
20 / 24	5	2	2	9	21.5	5	1	2	8	21.5	0	0	0	0	23.3
15 / 19	2	0	0	2	16.9	1	0	0	1	17.8	0	0		0	
10 / 14	0	0		0	11.3	0			0	12.0	0	0		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.

NORTHOLT RAF, UK WMO No. 036720

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)
95 / 99												0		0	70.0
90 / 94												1	0	1	68.6
85 / 89												2	0	2	65.9
80 / 84							1	0	1	63.0		7	4	11	65.4
75 / 79							8	3	10	61.1	0	18	12	30	62.7
70 / 74		3	1	5	57.6	0	14	8	23	58.9	2	32	25	59	60.4
65 / 69	0	8	4	13	55.2	1	25	17	42	56.2	5	43	33	81	57.9
60 / 64	0	22	13	34	52.2	6	50	35	90	53.7	27	69	58	155	55.6
55 / 59	4	48	33	85	49.5	27	74	60	161	50.7	82	56	68	205	52.9
50 / 54	29	73	63	164	46.4	82	57	71	210	48.2	87	12	33	133	49.6
45 / 49	74	61	67	202	43.1	85	18	40	143	44.5	30	1	6	36	45.5
40 / 44	70	21	39	129	39.6	33	2	11	46	40.2	5	0	0	5	41.5
35 / 39	44	4	17	66	35.7	12	0	3	15	36.4	1			1	37.3
30 / 34	18	0	3	20	31.4	3		0	3	32.0					
25 / 29	2		0	2	26.7										
20 / 24	0		0	0											
15 / 19															
10 / 14															

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.

NORTHOLT RAF, UK WMO No. 036720

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)
95 / 99							0		0	69.0					
90 / 94		1	0	1	67.4		2	0	2	68.9		0		0	
85 / 89		5	3	8	66.9		3	1	4	66.1	0	0		0	
80 / 84		15	8	23	65.7		11	7	18	64.9	0	1	0	1	65.7
75 / 79	0	33	22	55	63.8	0	29	19	48	63.4	0	7	3	10	63.9
70 / 74	5	57	44	105	61.5	2	57	43	102	61.3	0	23	10	33	61.0
65 / 69	20	62	53	134	59.7	14	68	52	133	59.1	2	49	27	78	58.7
60 / 64	73	59	67	199	57.6	72	63	72	206	57.7	26	89	68	183	56.6
55 / 59	101	16	43	160	54.4	103	16	43	162	54.8	76	57	78	211	53.6
50 / 54	43	1	8	52	50.5	45	1	10	56	50.5	76	14	40	130	50.1
45 / 49	6		0	6	46.4	12		1	13	46.4	41	1	13	55	45.8
40 / 44	0			0	43.5	1			1	41.8	15		1	16	41.5
35 / 39						0			0	38.3	4		0	4	37.5
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															

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.

NORTHOLT RAF, UK WMO No. 036720

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)				MCWB	Hour Group (LST)				MCWB	Hour Group (LST)				MCWB
	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)	01 To 08	09 To 16	17 To 00	Total Obs	(°F)
95 / 99															
90 / 94															
85 / 89															
80 / 84		0		0	65.0										
75 / 79		1		1	63.1										
70 / 74		3	0	3	61.9										
65 / 69	0	11	3	14	59.1		0		0	58.0					
60 / 64	7	48	24	79	56.7	0	7	1	8	56.7					
55 / 59	43	86	69	198	53.1	18	38	27	83	53.6	5	14	8	26	52.8
50 / 54	67	68	78	213	49.1	40	62	50	153	49.1	32	42	39	113	49.2
45 / 49	63	26	51	140	44.8	48	65	62	176	44.3	47	65	50	161	44.4
40 / 44	35	4	17	56	41.0	47	40	47	135	40.0	53	58	57	168	39.9
35 / 39	24	2	6	31	36.7	44	20	34	98	35.8	56	45	56	156	35.6
30 / 34	9	0	0	9	32.5	27	7	15	49	31.4	34	18	31	83	31.3
25 / 29	1			1	27.6	12	1	3	16	26.6	16	5	8	29	26.1
20 / 24	0			0	24.0	3	0	0	3	22.2	6	1	0	6	22.1
15 / 19						0			0	19.0	1	0	0	1	17.8
10 / 14															

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.

NORTHOLT RAF, UK WMO No. 036720

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

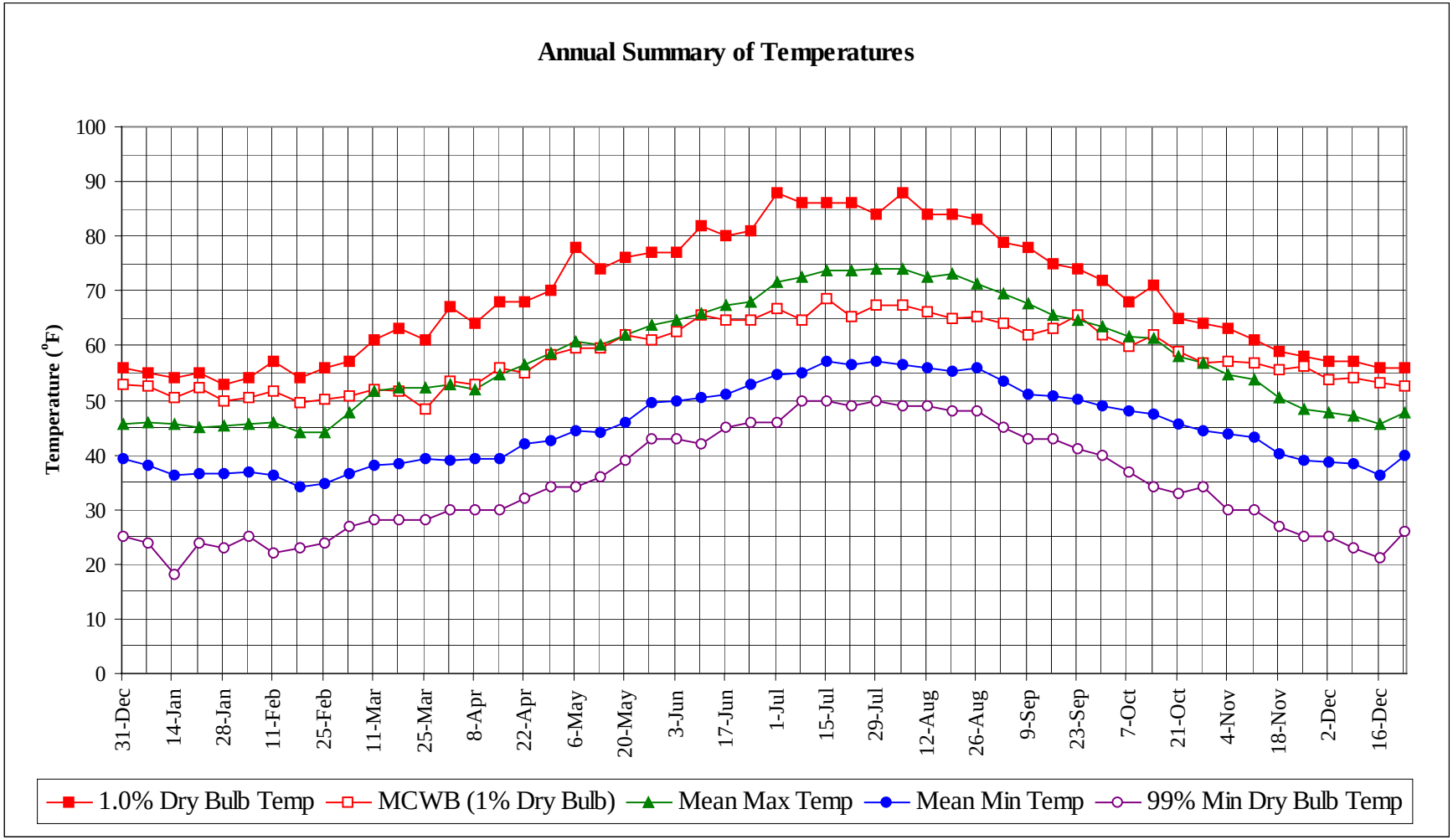
Period of Record = 1973 to 1996

Annual Totals

Temperature Range (°F)	Hour Group (LST) 01 To 08	09 To 16	17 To 00	Total Obs	MCWB (°F)
95 / 99		0		0	69.3
90 / 94		3	1	4	68.4
85 / 89	0	10	4	14	66.5
80 / 84	0	35	22	57	65.3
75 / 79	1	96	62	159	63.2
70 / 74	8	190	141	339	61.0
65 / 69	43	269	201	512	58.6
60 / 64	216	416	359	991	56.4
55 / 59	471	437	456	1364	52.9
50 / 54	558	471	490	1519	48.7
45 / 49	536	446	475	1457	44.1
40 / 44	412	273	327	1012	39.8
35 / 39	359	183	243	785	35.5
30 / 34	215	69	109	394	31.1
25 / 29	76	19	25	120	26.2
20 / 24	18	3	4	26	21.8
15 / 19	4	1	0	4	17.4
10 / 14	1	0		1	11.5

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.

NORTHOLT RAF, UK WMO No. 036720



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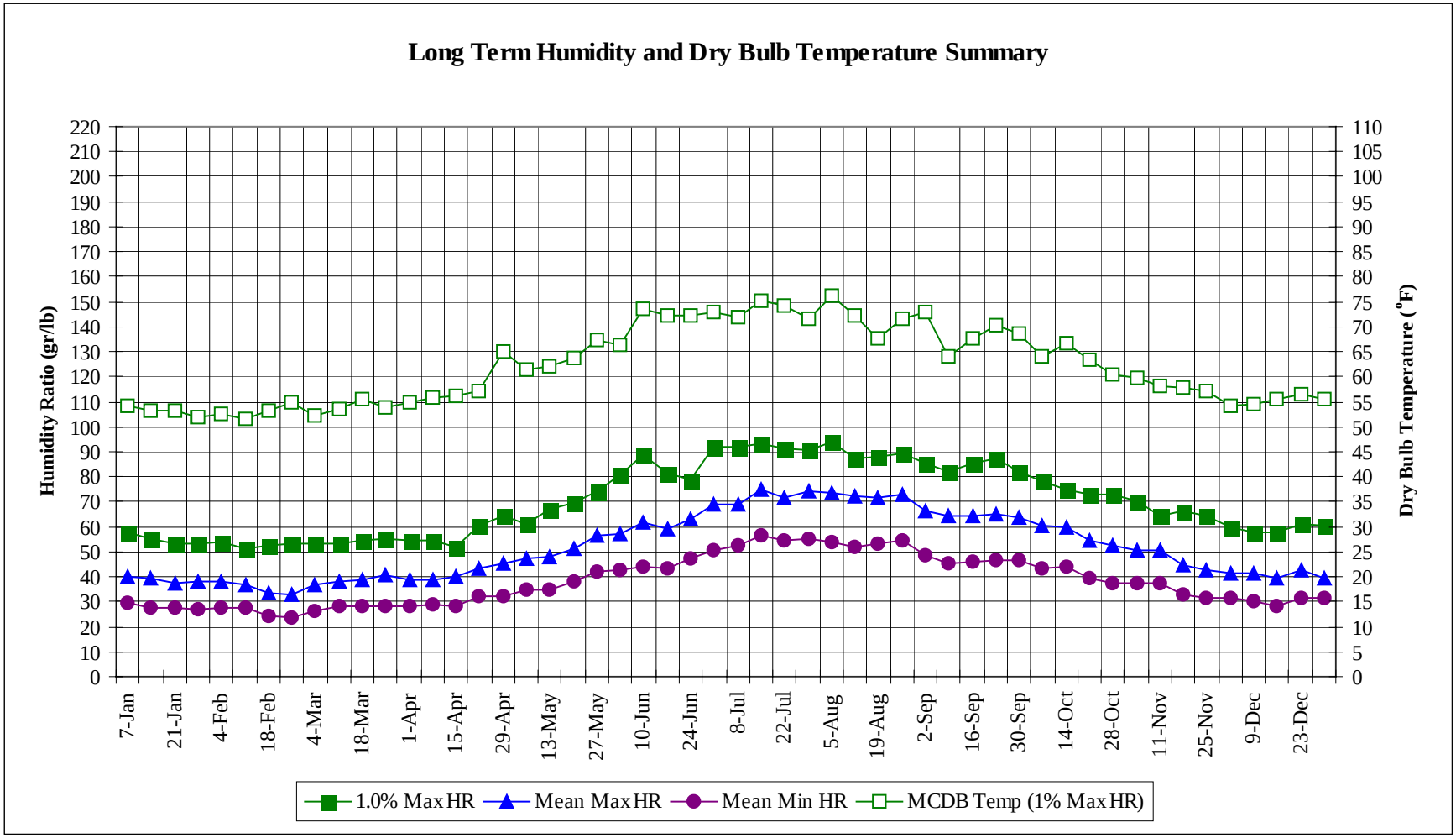
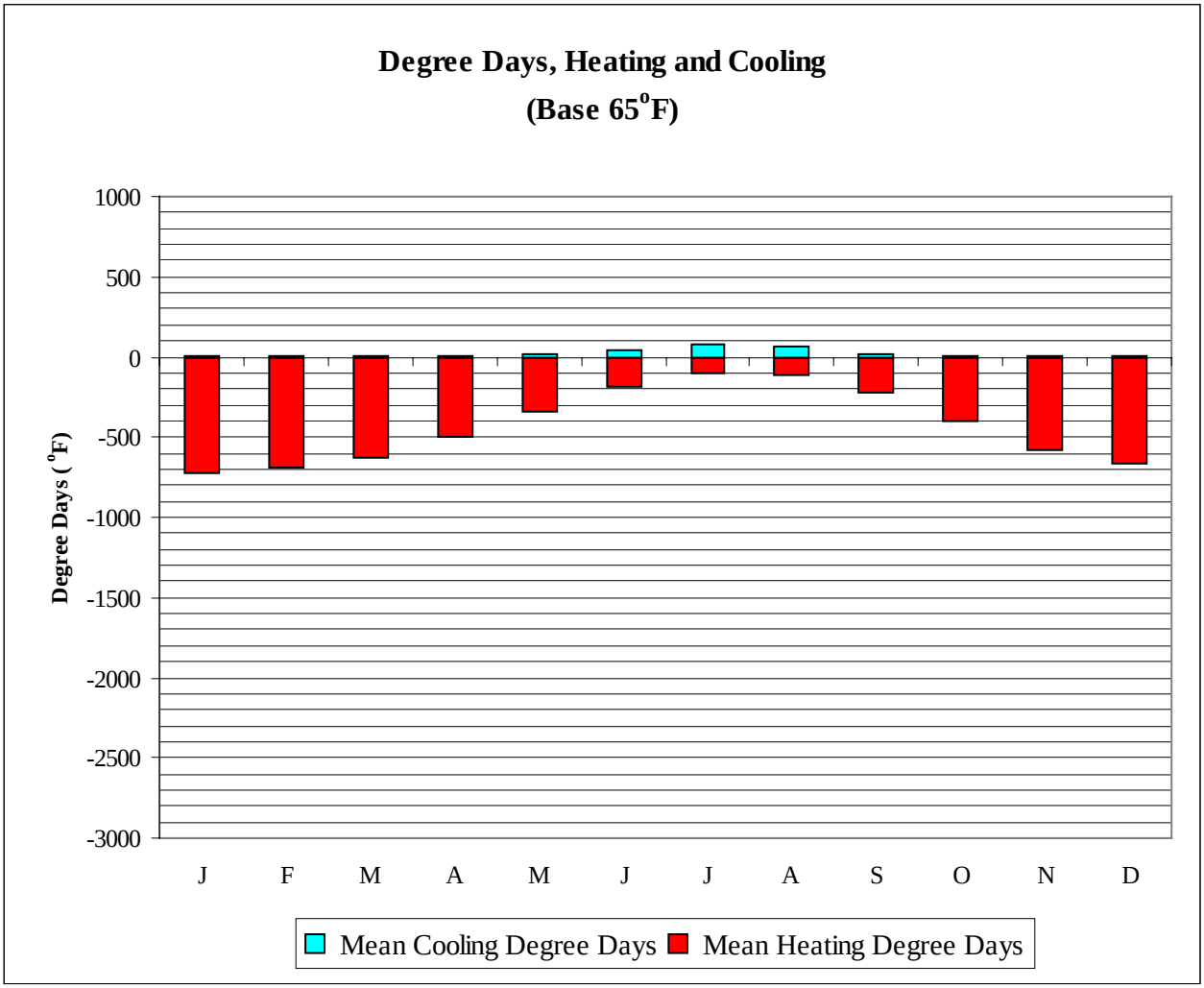


NORTHOLT RAF, UK WMO No. 036720

Long Term Dry Bulb Temperature and Humidity Summary

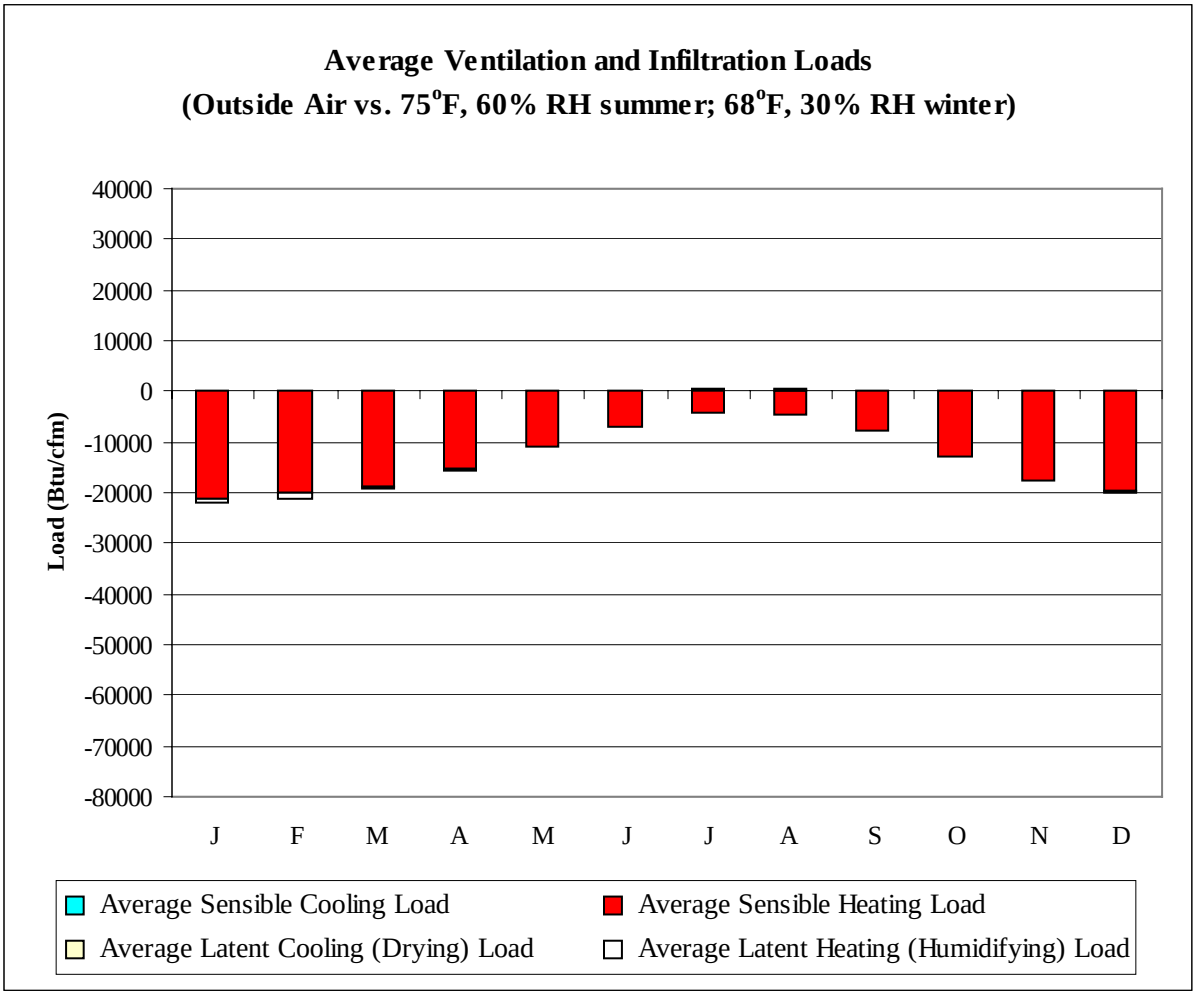
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	55.0	52.5	46.1	38.1	24.0	58.1	54.1	40.2	29.4
14-Jan	54.0	50.4	45.5	36.2	18.0	55.3	53.2	39.2	27.6
21-Jan	55.0	52.2	45.1	36.6	24.0	53.2	53.1	37.4	27.3
28-Jan	53.0	50.0	45.4	36.5	23.0	53.2	52.0	38.2	26.8
4-Feb	54.0	50.6	45.8	36.8	25.0	53.9	52.5	38.1	27.7
11-Feb	57.0	51.7	46.1	36.2	22.0	51.1	51.7	36.8	27.4
18-Feb	54.0	49.6	44.1	34.0	23.0	52.5	53.4	33.4	24.3
25-Feb	56.0	50.2	44.3	34.7	24.0	53.2	54.7	33.0	23.9
4-Mar	57.0	50.8	47.8	36.4	27.0	53.2	52.1	36.9	26.1
11-Mar	61.0	51.8	51.6	38.1	28.0	53.2	53.5	38.1	28.5
18-Mar	63.0	51.8	52.3	38.3	28.0	54.6	55.6	38.9	28.3
25-Mar	61.0	48.4	52.4	39.2	28.0	55.3	54.0	40.6	28.4
1-Apr	67.0	53.6	52.8	39.1	30.0	54.6	54.8	38.9	28.0
8-Apr	64.0	52.7	52.1	39.4	30.0	54.6	55.7	38.7	28.9
15-Apr	68.0	55.8	54.6	39.4	30.0	51.8	56.3	40.2	27.9
22-Apr	68.0	55.0	56.5	42.1	32.0	60.2	57.1	43.6	32.1
29-Apr	70.0	58.4	58.7	42.7	34.0	64.4	65.0	45.0	32.0
6-May	78.0	59.4	60.8	44.5	34.0	60.9	61.3	47.5	34.5
13-May	74.0	59.5	60.2	44.2	36.0	67.2	62.1	47.8	34.8
20-May	76.0	61.9	61.8	46.1	39.0	69.3	63.8	51.4	37.8
27-May	77.0	61.1	63.6	49.5	43.0	74.2	67.4	56.6	42.2
3-Jun	77.0	62.7	64.7	49.8	43.0	80.5	66.3	57.4	42.6
10-Jun	82.0	65.5	65.9	50.5	42.0	88.9	73.7	61.5	44.3
17-Jun	80.0	64.6	67.4	51.2	45.0	81.2	72.2	59.2	43.2
24-Jun	81.0	64.6	68.1	52.7	46.0	79.1	72.1	62.8	47.0
1-Jul	88.0	66.9	71.5	54.7	46.0	91.7	72.8	69.0	50.8
8-Jul	86.0	64.7	72.6	55.1	50.0	91.7	71.8	69.2	52.7
15-Jul	86.0	68.6	73.6	57.0	50.0	93.1	75.1	74.5	56.7
22-Jul	86.0	65.1	73.6	56.6	49.0	91.0	74.3	71.8	54.4
29-Jul	84.0	67.5	73.9	57.1	50.0	90.3	71.7	74.1	55.4
5-Aug	88.0	67.4	74.1	56.6	49.0	93.8	76.1	73.6	54.2
12-Aug	84.0	66.3	72.4	56.0	49.0	87.5	72.3	72.2	52.1
19-Aug	84.0	65.0	73.3	55.3	48.0	88.2	67.6	71.7	52.9
26-Aug	83.0	65.3	71.4	55.8	48.0	89.6	71.5	72.8	54.3
2-Sep	79.0	64.1	69.4	53.6	45.0	85.4	72.8	66.7	48.4
9-Sep	78.0	62.0	67.6	51.1	43.0	81.9	64.0	64.3	45.3
16-Sep	75.0	63.0	65.5	50.7	43.0	85.4	67.6	64.1	46.3
23-Sep	74.0	65.5	64.7	50.3	41.0	87.5	70.2	64.7	46.8
30-Sep	72.0	61.9	63.5	49.0	40.0	81.9	68.8	63.6	46.9
7-Oct	68.0	59.9	61.7	47.9	37.0	78.4	64.0	60.4	43.5
14-Oct	71.0	62.0	61.4	47.5	34.0	74.9	66.8	59.6	43.8
21-Oct	65.0	58.8	57.9	45.7	33.0	72.8	63.3	54.5	39.6
28-Oct	64.0	56.8	56.8	44.4	34.0	72.8	60.5	52.8	37.7
4-Nov	63.0	57.2	54.8	43.7	30.0	70.0	59.7	50.4	37.6
11-Nov	61.0	56.9	53.9	43.3	30.0	64.4	58.0	50.9	37.4
18-Nov	59.0	55.6	50.4	40.1	27.0	66.5	57.8	44.7	32.9
25-Nov	58.0	56.2	48.3	38.8	25.0	64.4	57.0	42.9	31.6
2-Dec	57.0	53.8	47.7	38.6	25.0	59.5	54.3	41.6	31.5
9-Dec	57.0	54.0	47.2	38.4	23.0	58.1	54.5	41.1	30.1
16-Dec	56.0	53.2	45.6	36.3	21.0	58.1	55.6	39.2	28.4
23-Dec	56.0	52.7	47.8	40.0	26.0	60.9	56.4	42.8	31.4
31-Dec	56.0	52.8	45.6	39.3	25.0	60.2	55.6	39.4	31.4

NORTHOLT RAF, UK WMO No. 036720



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	722
FEB	0	687
MAR	1	627
APR	2	494
MAY	13	337
JUN	43	189
JUL	83	103
AUG	71	108
SEP	17	220
OCT	2	401
NOV	0	583
DEC	0	662
ANN	232	5133

NORTHOLT RAF, UK WMO No. 036720



	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	-21079	0	-751
FEB	0	-20021	0	-993
MAR	6	-18689	0	-652
APR	0	-15122	0	-358
MAY	25	-10970	3	-98
JUN	152	-6796	47	-8
JUL	330	-4225	175	0
AUG	247	-4466	99	0
SEP	21	-7798	35	-4
OCT	1	-12788	1	-55
NOV	0	-17440	0	-339
DEC	0	-19483	0	-490
ANN	782	-158877	360	-3748

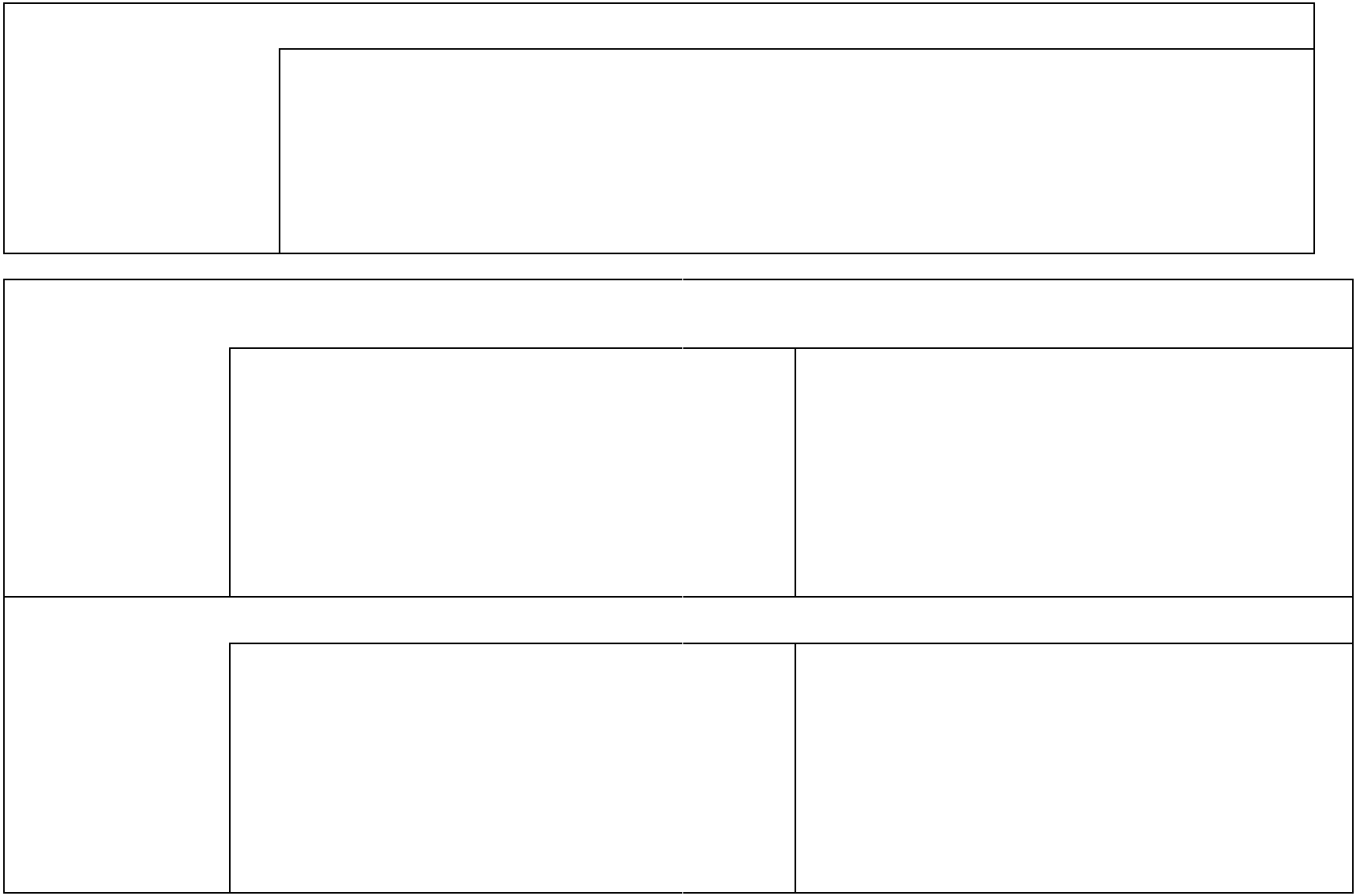
Average Annual Solar Radiation – Nearest Available Site

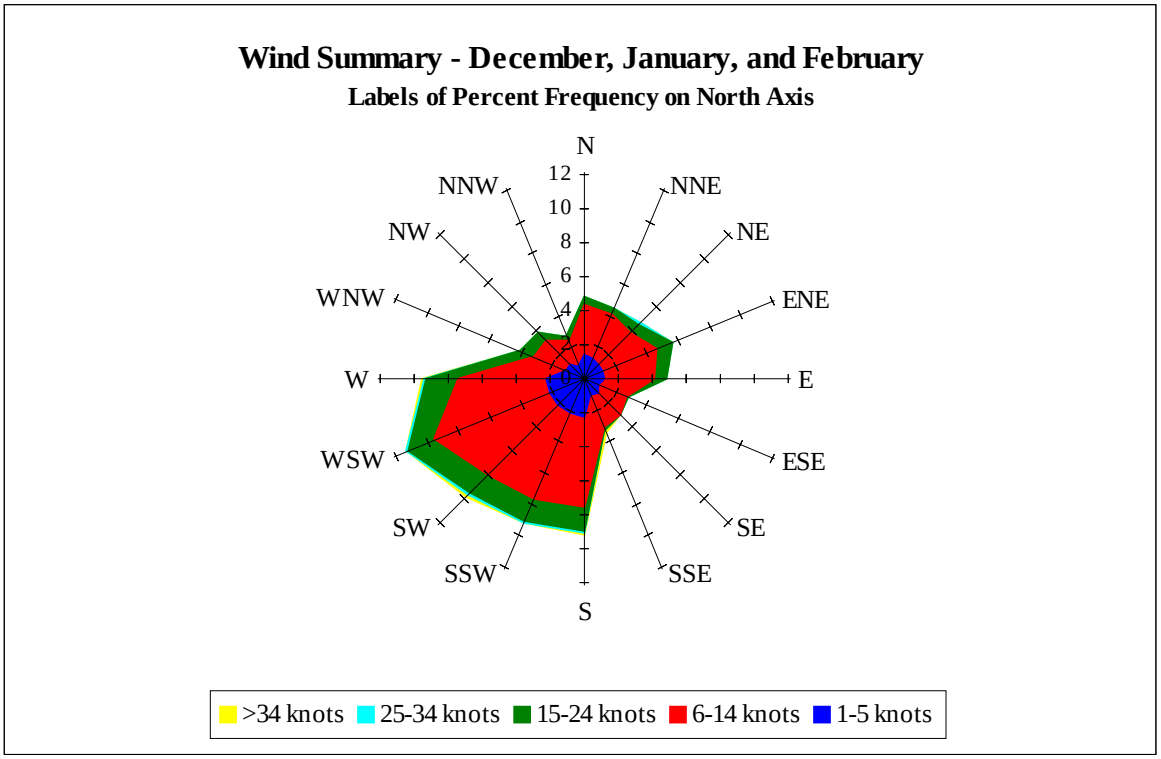
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

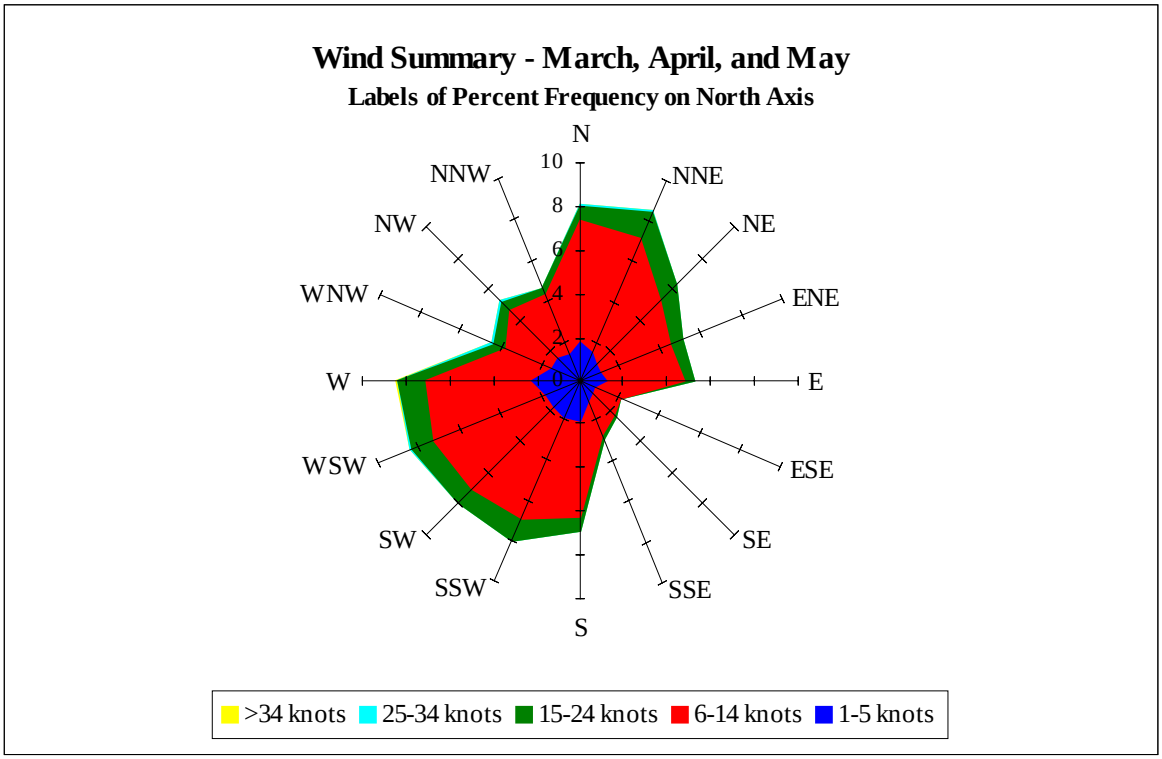
Average Annual Solar Heat and Illumination – Nearest Available Site

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

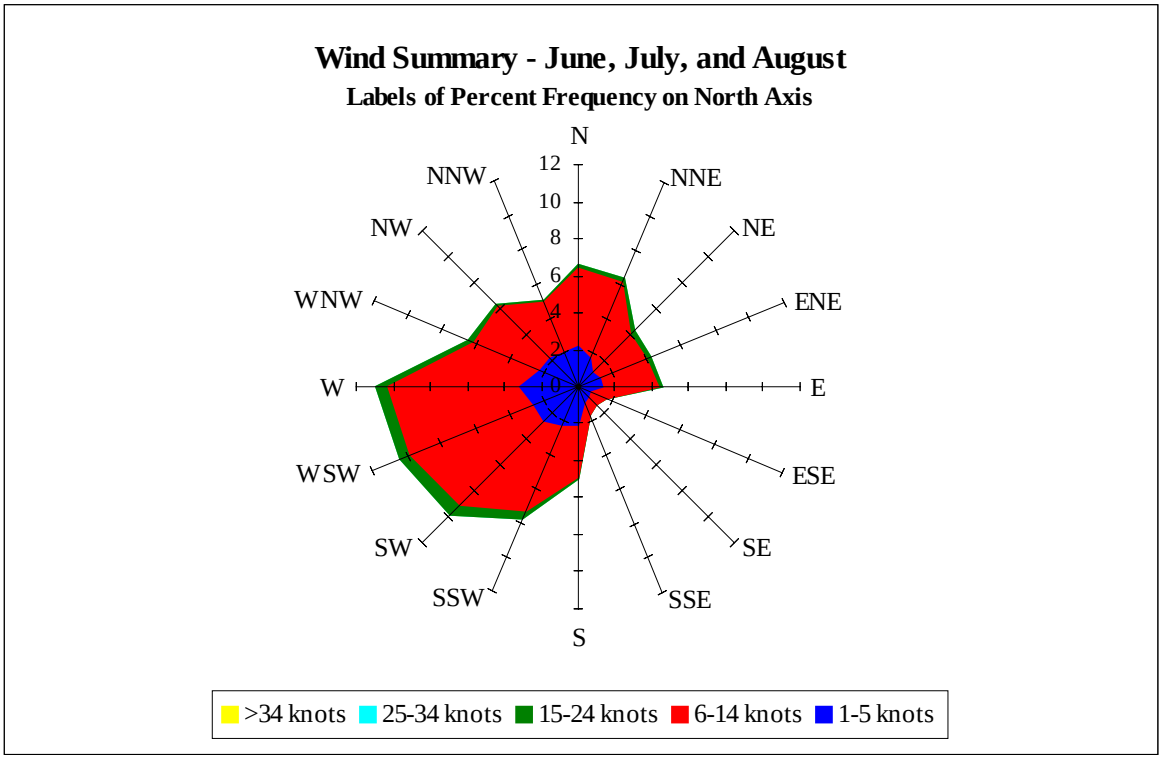




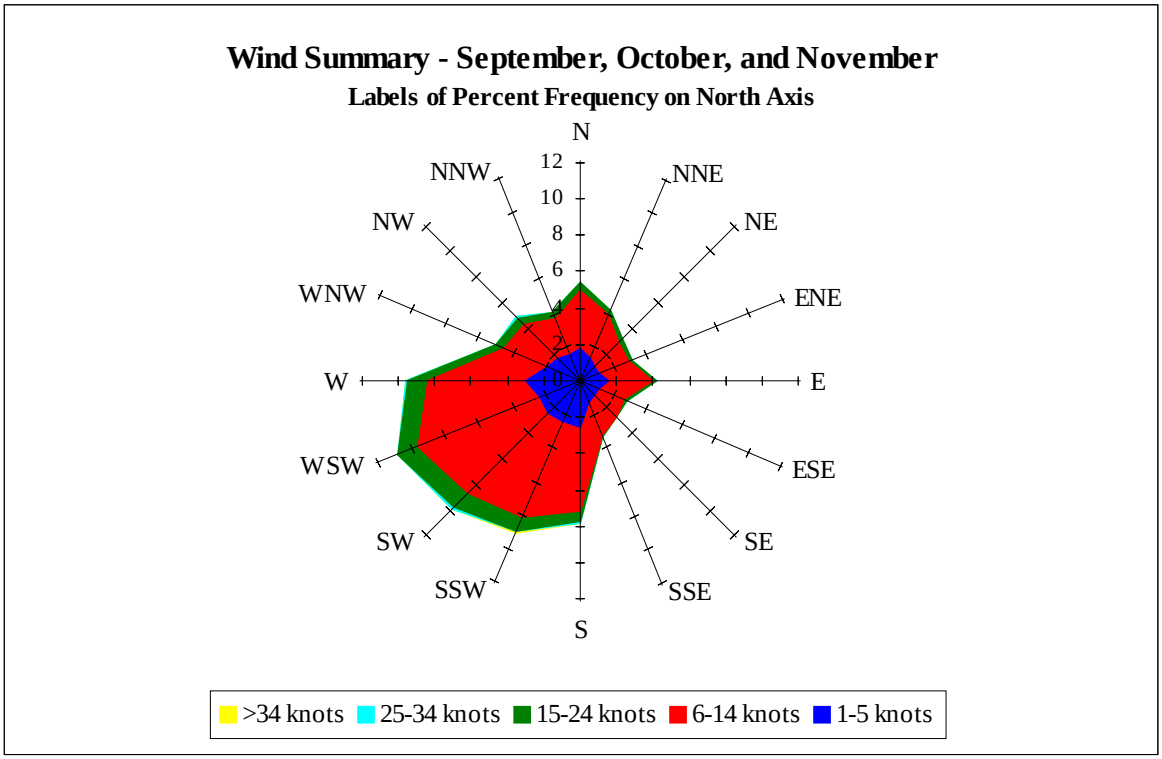
Percent Calm = 7.86



Percent Calm = 5.97



Percent Calm = 7.84



Percent Calm = 10.50