

**APPENDIX 6:  
Meteorological Results**

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### 30 Year Averages

<b>CASEMENT AERODROME</b>													
monthly and annual mean and extreme values													
1968-1996													
TEMPERATURE (degrees Celsius)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	year
mean daily max.	7.8	7.6	9.6	11.8	14.6	17.7	19.7	19.3	16.8	13.6	9.9	8.3	13.1
mean daily min.	2.0	1.7	2.5	3.2	5.7	8.6	10.7	10.3	8.5	6.7	3.6	2.8	5.5
mean	4.9	4.6	6.0	7.5	10.1	13.1	15.2	14.8	12.6	10.1	6.7	5.6	9.3
absolute max.	15.4	14.7	18.8	21.3	24.7	27.5	29.8	30.5	24.7	21.3	17.7	15.4	30.5
absolute min.	-12.4	-10.3	-7.8	-4.5	-3.0	0.3	2.5	2.5	-0.3	-4.1	-6.2	-9.7	-12.4
mean no. of days with air frost	7.5	7.7	6.3	4.9	1.0	0.0	0.0	0.0	0.0	1.4	5.9	6.6	41.3
mean no. of days with ground frost	15.3	15.0	13.1	12.8	6.3	1.1	0.1	0.1	1.6	4.5	11.0	13.5	94.3
<b>RELATIVE HUMIDITY (%)</b>													
mean at 0900UTC	87	86	84	80	77	77	79	81	84	86	87	87	83
mean at 1500UTC	82	77	72	68	68	68	68	68	71	76	81	83	74
<b>SUNSHINE (hours)</b>													
mean daily duration	1.63	2.38	3.04	4.85	5.65	5.63	5.01	4.83	4.04	3.07	2.16	1.42	3.64
greatest daily duration	8.1	9.2	10.9	13.6	15.4	16.0	15.4	14.4	12.3	9.8	8.5	6.9	16.0
mean no. of days with no sun	10	7	5	2	2	2	1	2	3	5	7	11	55
<b>RAINFALL (mm)</b>													
mean monthly total	68.7	50.7	53.8	49.9	56.6	53.0	48.9	63.7	58.7	67.2	67.2	73.1	711.4
greatest daily total	31.4	42.8	30.0	35.3	34.3	108.6	41.4	73.0	32.1	48.5	58.4	42.9	108.6
mean no. of days with >= 0.2mm	18	14	17	14	15	14	14	14	15	16	16	17	185
mean no. of days with >= 1.0mm	13	10	12	10	11	10	9	10	10	11	11	12	131
mean no. of days with >= 5.0mm	5	3	3	3	4	3	3	4	4	4	4	5	45
<b>WIND (knots)</b>													
mean monthly speed	14.1	12.5	12.8	10.1	9.1	8.7	8.9	8.7	10.1	11.2	12.3	13.3	11.0
max. gust	80	78	71	59	63	53	58	58	69	65	68	81	81
max. mean 10- minute speed	57	54	47	43	43	36	39	39	46	44	49	57	57
mean no. of days with gales	5.2	2.7	2.7	0.6	0.5	0.1	0.1	0.2	0.6	1.4	2.4	3.7	20.3
<b>WEATHER (mean no. of days with...)</b>													
snow or sleet	4.6	4.8	3.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.4	2.1	16.9
snow lying at 0900UTC	2.4	1.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	5.3
hail	0.8	1.2	2.8	2.2	1.3	0.5	0.1	0.1	0.3	0.1	0.7	0.6	10.7
thunder	0.0	0.1	0.2	0.3	0.9	0.9	0.8	0.6	0.3	0.2	0.2	0.1	4.8
fog	2.5	2.3	1.8	2.4	1.6	1.4	1.2	2.8	2.9	2.7	1.8	2.3	25.9