

# Appendix 9.7 – Cumulative Noise Immission Levels

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# Appendix 9.7: Cumulative Noise Immission Levels

## ***Introduction***

The tables show the calculated worst-case cumulative noise immission levels in terms of dB LA90,10min against the derived wind speed at 10m height for each of the 13 locations. The results are the worst-case levels from a broad brush approach to the recommendations of the IOA Good Practice Guide, and include 2dB of screening for any turbine not visible from the location in question. No allowance is made for directivity, and every turbine was treated as if it were directly upwind of the receptor.

**Table 9.7.1 – Worst Case Cumulative Noise Immission Levels**

Receptor	4m/s	5m/s	6m/s	7m/s	8m/s	9m/s	10m/s	11m/s	12m/s
Westerhouse	28	33	37	37	38	38	38	38	38
Station House	31	36	39	39	40	40	41	41	41
8 Middlemuir Road	28	33	35	37	38	38	38	38	38
Craigend	28	33	36	37	37	38	38	38	38
West Toun House	26	31	35	35	36	36	36	36	36
Braehead	27	32	34	36	37	37	37	37	37
Midfield Road	26	31	33	34	36	36	36	36	36
Gardens House	24	28	32	33	35	35	35	35	35
Scrogton	25	30	33	34	34	35	35	35	35
Braidlea	26	31	34	35	35	36	36	36	36
Scrogtonhead	26	31	34	35	35	36	36	36	36
Stockhill	35	39	41	43	44	45	44	44	44
Gunsgreen	30	34	36	38	39	40	40	40	40

**Table 9.7.2 – Worst Case Compliance with Noise Limits**

Receptor	4m/s	5m/s	6m/s	7m/s	8m/s	9m/s	10m/s	11m/s	12m/s
<i>Daytime</i>									
Westerhouse*	17	12	8	8	7	7	7	7	7
Station House*	14	9	8	8	8	10	11	13	15
8 Middlemuir Road	12	7	5	3	3	5	7	9	10
Craigend	12	7	4	3	3	2	3	3	3
West Toun House	14	9	5	5	4	4	5	5	5
Braehead	13	8	6	4	4	6	8	10	11
Midfield Road	14	9	7	6	5	7	9	11	12
Gardens House	16	12	8	7	5	5	6	6	6
Scrogton	15	10	7	8	9	10	12	15	17
Braidlea	14	9	6	7	8	9	11	14	16
Scrogtonhead	14	9	6	7	8	9	11	14	16
Stockhill*	10	6	4	2	1	0	1	1	1
Gungsgreen	10	6	4	2	2	3	5	7	8
<i>Night-time</i>									
Westerhouse*	17	12	8	8	7	7	7	7	7
Station House*	14	9	6	6	5	5	4	4	4
8 Middlemuir Road	15	10	8	6	5	5	5	5	5
Craigend	15	10	7	6	6	5	5	5	5
West Toun House	17	12	8	8	7	7	7	7	7
Braehead	16	11	9	7	6	6	6	6	6
Midfield Road	17	12	10	9	7	7	7	7	7
Gardens House	19	15	11	10	8	8	8	8	8
Scrogton	18	13	10	9	9	9	9	9	9
Braidlea	17	12	9	8	8	8	8	8	8
Scrogtonhead	17	12	9	8	8	8	8	8	8
Stockhill*	10	6	4	2	1	0	1	1	1
Gungsgreen	13	9	7	5	4	3	3	3	3

\* 45dB limit assumed

