

Aberdeen Western Peripheral Route
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Appendix A30.4 – DMRB Nuisance Assessment and Summary Tables

1 DMRB Nuisance Assessment and Summary Tables

1.1 Tables 1a-d provide a summary of residual noise changes at ground floor for each DMRB ambient noise band, within 300m of the scheme.

Table 1a - Summary of Noise Changes at Ground Floor According to Noise Bands (<50dB) (300m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band <50dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial		Community Facilities	
		Do Something	Do Minimum	Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	24	13	0	0	1	9
	3 < 5	7	0	0	0	1	0
	5 < 10	12	0	0	0	2	0
	10 < 15	19	0	0	0	5	0
	≥ 15	86	0	3	0	22	0
Increase In Nuisance Level	< 10%	2	64	0	0	1	12
	10 < 20%	8	0	0	0	0	0
	20 < 30%	32	0	0	0	0	0
	30 < 40%	18	0	0	0	2	0
	≥ 40%	116	0	3	0	28	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	3	0	0	0	0	0
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	1	15	0	0	0	3
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	≥ 40%	0	0	0	0	0	0

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Table 1b - Summary of Noise Changes at Ground Floor According to Noise Bands (50 – 60dB) (300m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band 50-60dB	L _{A10,18hr} dB	Residential		Commercial/Industrial		Community Facilities	
		Do Something	Do Minimum	Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	20	2	1	0	1	3
	3 < 5	10	0	0	0	1	0
	5 < 10	11	0	1	0	4	0
	10 < 15	0	0	0	0	2	0
	≥ 15	0	0	0	0	3	0
Increase In Nuisance Level	< 10%	12	155	0	8	0	8
	10 < 20%	23	0	2	0	0	0
	20 < 30%	101	0	7	0	2	0
	30 < 40%	20	0	2	0	4	0
	≥ 40%	8	0	0	0	5	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	22	0	5	0	0	1
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	33	32	0	2	0	2
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	≥ 40%	0	0	0	0	0	0

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Table 1c - Summary of Noise Changes at Ground Floor According to Noise Bands (60 - 70dB) (300m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band 60-70dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial		Community Facilities	
		Do Something	Do Minimum	Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	1	0	0	0	2	1
	3 < 5	0	0	0	0	1	0
	5 < 10	0	0	0	0	1	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Increase In Nuisance Level	< 10%	7	58	0	4	0	4
	10 < 20%	5	0	0	0	1	0
	20 < 30%	36	0	4	0	2	0
	30 < 40%	0	0	3	0	1	0
	≥ 40%	0	0	0	0	0	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	6	0	0	0	0	0
	3 < 5	2	0	1	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	15	4	2	5	0	0
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	≥ 40%	0	0	0	0	0	0

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Table 1d - Summary of Noise Changes at Ground Floor According to Noise Bands (>70dB) (300m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band > 70dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial		Community Facilities	
		Do Something	Do Minimum	Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	0	0	0	0	0	0
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Increase In Nuisance Level	< 10%	2	4	0	0	0	2
	10 < 20%	0	0	0	0	0	0
	20 < 30%	1	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	≥ 40%	0	0	0	0	0	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	1	0	0	0	1	0
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	1	0	0	0	2	0
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	1	0	0	0	0	0
	≥ 40%	0	0	0	0	0	0

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1.2 Tables 2a-d provide a summary of residual noise changes at first floor for each DMRB ambient noise band, within 300m of the scheme.

Table 2a - Summary of Noise Changes at First Floor According to Noise Bands (< 50dB) (300m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band <50dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial	
		Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	21	13	0	0
	3 < 5	10	0	0	0
	5 < 10	9	0	0	0
	10 < 15	17	0	0	0
	≥ 15	88	0	3	0
Increase In Nuisance Level	< 10%	0	68	0	0
	10 < 20%	0	0	0	0
	20 < 30%	17	0	0	0
Increase In Nuisance Level	30 < 40%	40	0	0	0
	≥ 40%	0	0	3	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	2	0	0	0
	3 < 5	0	0	0	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Decrease In Nuisance Level	< 10%	0	20	0	0
	10 < 20%	0	0	0	0
	20 < 30%	0	0	0	0
	30 < 40%	0	0	0	0
	≥ 40%	0	0	0	0

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Table 2b - Summary of Noise Changes at First Floor According to Noise Bands (50 – 60dB) (300m)
 Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band 50-60dB	L _{A10,18hr} dB	Residential		Commercial/Industrial	
		Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	18	3	1	0
	3 < 5	9	0	0	0
	5 < 10	13	0	1	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Increase In Nuisance Level	< 10%	1	159	0	9
	10 < 20%	4	0	0	0
	20 < 30%	66	0	5	0
	30 < 40%	114	0	4	0
	≥ 40%	15	0	1	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	28	0	4	0
	3 < 5	0	0	0	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Decrease In Nuisance Level	< 10%	2	29	0	1
	10 < 20%	0	0	0	0
	20 < 30%	0	0	0	0
	30 < 40%	0	0	0	0
	≥ 40%	0	0	0	0

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Table 2c - Summary of Noise Changes at First Floor According to Noise Bands (60 – 70dB) (300m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band 60-70dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial	
		Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	2	0	3	0
	3 < 5	0	0	0	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Increase In Nuisance Level	< 10%	1	64	0	10
	10 < 20%	2	0	2	0
	20 < 30%	26	0	1	0
	30 < 40%	37	0	4	0
	≥ 40%	0	0	3	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	7	0	1	0
	3 < 5	1	0	1	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Decrease In Nuisance Level	< 10%	1	2	0	0
	10 < 20%	0	0	0	0
	20 < 30%	0	0	0	0
	30 < 40%	0	0	0	0
	≥ 40%	0	0	0	0

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Table 2d - Summary of Noise Changes at First Floor According to Noise Bands (>70dB) (300m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band > 70dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial	
		Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	0	0	0	0
	3 < 5	0	0	0	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Increase In Nuisance Level	< 10%	0	4	0	0
	10 < 20%	0	0	0	0
	20 < 30%	2	0	0	0
	30 < 40%	1	0	0	0
	≥ 40%	0	0	0	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	1	0	0	0
	3 < 5	0	0	0	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Decrease In Nuisance Level	< 10%	1	1	0	0
	10 < 20%	0	0	0	0
	20 < 30%	1	0	0	0
	30 < 40%	0	0	0	0
	≥ 40%	0	0	0	0

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1.3 Tables 3a-d provide a summary of residual noise changes at ground floor for each DMRB ambient noise band, within 500m of the scheme.

Table 3a - Summary of Noise Changes at Ground Floor According to Noise Bands (<50dB) (500m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band <50dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial		Community Facilities	
		Do Something	Do Minimum	Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	144	19	0	0	2	12
	3 < 5	113	0	1	0	3	0
	5 < 10	90	0	0	0	6	0
	10 < 15	92	0	0	0	7	0
	≥ 15	124	0	4	0	0	0
Increase In Nuisance Level	< 10%	6	306	0	1	2	16
	10 < 20%	19	0	0	0	0	0
	20 < 30%	234	0	0	0	1	0
Increase In Nuisance Level	30 < 40%	188	0	1	0	7	0
	≥ 40%	264	0	4	0	33	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	9	0	0	0	0	0
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	7	143	0	0	0	5
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	≥ 40%	0	0	0	0	0	0

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Table 3b - Summary of Noise Changes at Ground Floor According to Noise Bands (50 – 60dB) (500m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band 50-60dB	L _{A10,18hr} dB	Residential		Commercial/Industrial		Community Facilities	
		Do Something	Do Minimum	Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	36	10	2	0	3	3
	3 < 5	14	1	0	0	2	0
	5 < 10	13	0	1	0	4	0
	10 < 15	1	0	0	0	2	0
	≥ 15	0	0	0	0	3	0
Increase In Nuisance Level	< 10%	32	267	0	10	0	10
	10 < 20%	54	0	4	0	1	0
	20 < 30%	150	0	8	0	5	0
	30 < 40%	26	0	2	0	4	0
	≥ 40%	10	0	0	0	5	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	49	0	5	0	0	2
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	51	41	0	3	0	4
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	≥ 40%	0	0	0	0	0	0

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Table 3c - Summary of Noise Changes at Ground Floor According to Noise Bands (60 - 70dB) (500m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band 60-70dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial		Community Facilities	
		Do Something	Do Minimum	Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	2	1	0	0	2	1
	3 < 5	0	0	0	0	1	0
	5 < 10	0	0	0	0	1	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Increase In Nuisance Level	< 10%	14	110	0	5	0	4
	10 < 20%	11	0	0	0	1	0
	20 < 30%	39	0	5	0	2	0
	30 < 40%	1	0	3	0	1	0
	≥ 40%	0	0	0	0	0	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	38	0	0	0	0	0
	3 < 5	2	0	1	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	52	7	2	5	0	0
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	≥ 40%	0	0	0	0	0	0

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Table 3d - Summary of Noise Changes at Ground Floor According to Noise Bands (>70dB) (500m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band > 70dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial		Community Facilities	
		Do Something	Do Minimum	Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	0	0	0	0	0	0
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Increase In Nuisance Level	< 10%	2	7	0	0	0	2
	10 < 20%	1	0	0	0	0	0
	20 < 30%	2	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	≥ 40%	0	0	0	0	0	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	1	0	0	0	1	0
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	≥ 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	2	0	0	0	2	0
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	1	0	0	0	0	0
	≥ 40%	0	0	0	0	0	0

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1.4 Tables 4a-d provide a summary of residual noise changes at first floor for each DMRB ambient noise band, within 500m of the scheme.

Table 4a - Summary of Noise Changes at First Floor According to Noise Bands (< 50dB) (500m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band <50dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial	
		Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	133	19	0	0
	3 < 5	119	0	1	0
	5 < 10	73	0	0	0
	10 < 15	91	0	0	0
	≥ 15	145	0	4	0
Increase In Nuisance Level	< 10%	2	328	0	1
	10 < 20%	1	0	0	0
	20 < 30%	37	0	0	0
Increase In Nuisance Level	30 < 40%	352	0	1	0
	≥ 40%	331	0	4	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	6	0	0	0
	3 < 5	1	0	0	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Decrease In Nuisance Level	< 10%	0	128	0	0
	10 < 20%	0	0	0	0
	20 < 30%	0	0	0	0
	30 < 40%	0	0	0	0
	≥ 40%	0	0	0	0

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Table 4b - Summary of Noise Changes at First Floor According to Noise Bands (50 – 60dB) (500m)
 Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band 50-60dB	L _{A10,18hr} dB	Residential		Commercial/Industrial	
		Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	30	10	2	0
	3 < 5	12	1	0	0
	5 < 10	15	0	1	0
	10 < 15	1	0	0	0
	≥ 15	0	0	0	0
Increase In Nuisance Level	< 10%	2	267	0	11
	10 < 20%	5	0	0	0
	20 < 30%	146	0	7	0
	30 < 40%	152	0	5	0
	≥ 40%	18	0	1	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	61	0	4	0
	3 < 5	0	0	0	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Decrease In Nuisance Level	< 10%	2	39	0	2
	10 < 20%	0	0	0	0
	20 < 30%	0	0	0	0
	30 < 40%	0	0	0	0
	≥ 40%	0	0	0	0

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Table 4c - Summary of Noise Changes at First Floor According to Noise Bands (60 – 70dB) (500m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band 60-70dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial	
		Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	3	1	3	0
	3 < 5	0	0	0	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Increase In Nuisance Level	< 10%	2	115	0	11
	10 < 20%	7	0	2	0
	20 < 30%	70	0	1	0
	30 < 40%	42	0	5	0
	≥ 40%	0	0	3	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	41	0	1	0
	3 < 5	1	0	1	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Decrease In Nuisance Level	< 10%	1	2	0	0
	10 < 20%	0	0	0	0
	20 < 30%	0	0	0	0
	30 < 40%	0	0	0	0
	≥ 40%	0	0	0	0

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Appendix A30.4 – DMRB Nuisance Assessment and Summary Tables

Table 4d - Summary of Noise Changes at First Floor According to Noise Bands (>70dB) (500m)

Note: DS = Do-Something (i.e. With Proposed scheme), DM = Do-Minimum (i.e. Without Proposed scheme)

Ambient Noise Band > 70dB	L _{A10(18hr)} dB	Residential		Commercial/Industrial	
		Do Something	Do Minimum	Do Something	Do Minimum
Increase In Noise Level L _{A10(18hr)} dB	1 < 3	0	0	0	0
	3 < 5	0	0	0	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Increase In Nuisance Level	< 10%	0	6	0	0
	10 < 20%	0	0	0	0
	20 < 30%	4	0	0	0
	30 < 40%	2	0	0	0
	≥ 40%	0	0	0	0
Decrease In Noise Level L _{A10(18hr)} dB	1 < 3	1	0	0	0
	3 < 5	0	0	0	0
	5 < 10	0	0	0	0
	10 < 15	0	0	0	0
	≥ 15	0	0	0	0
Decrease In Nuisance Level	< 10%	1	2	0	0
	10 < 20%	0	0	0	0
	20 < 30%	1	0	0	0
	30 < 40%	0	0	0	0
	≥ 40%	0	0	0	0