

Noise Disturbance along Highways

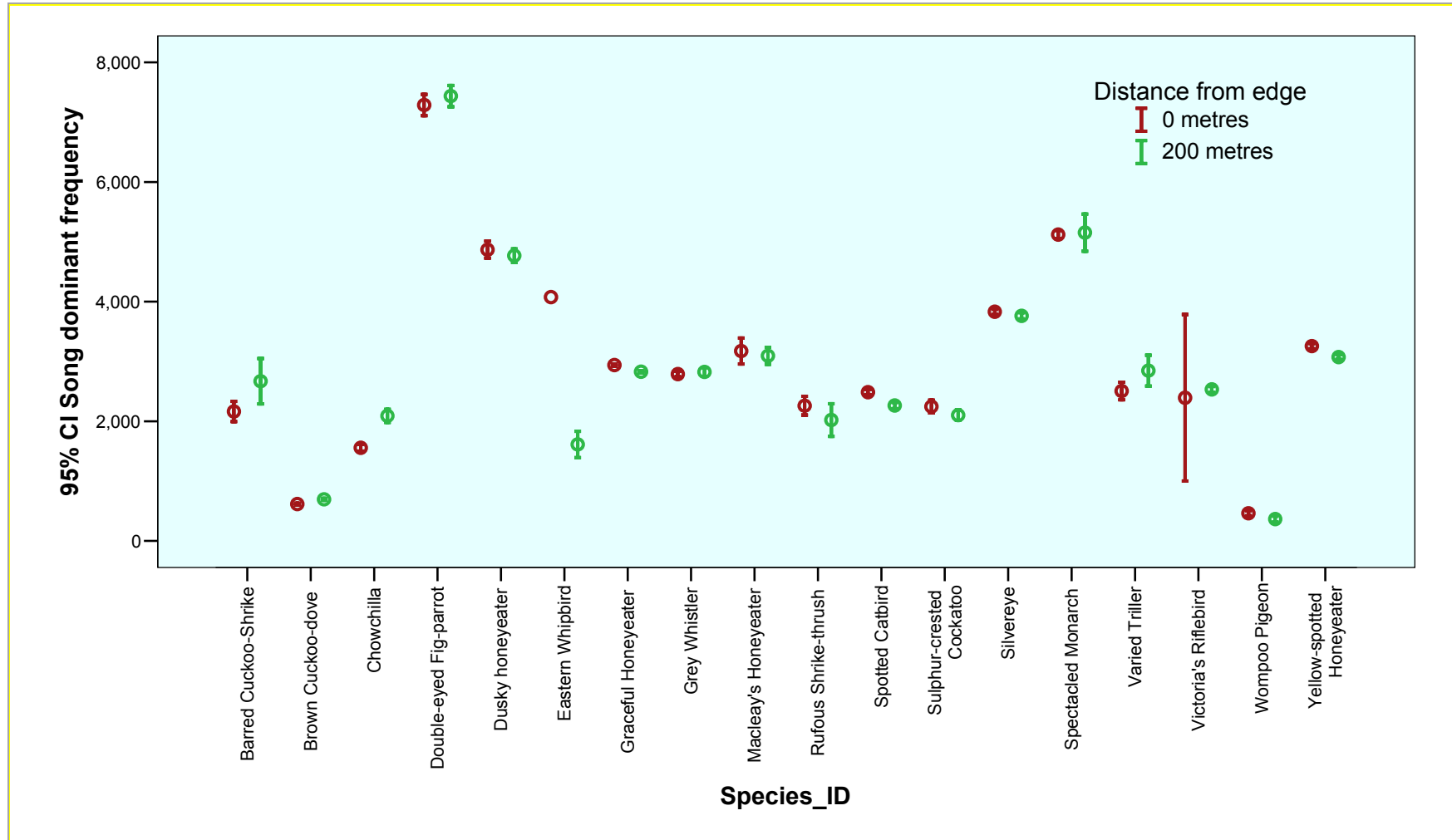
**Appendix: Section 3
Effect of traffic noise on
avian vocalisation**

Appendix 3.1 – Avian species inhabiting the Kuranda Range as recorded for current study

CODE	Common name	Suitability for analysis	Reference			
			Call note	Alarm call	Song_1	Song_2
AZKF	Azure Kingfisher	1				
BCSH	Barred Cuckoo-shrike	3	2661		1706	2035
BFMO	Black-faced Monarch	2	3396		2173	
BGNE	Brown Gerygone	1			5567	
BLBB	Black Butcherbird	2	858		1517	1741
BOST	Bower's Shrike-thrush	2	2501		2470	1477
BRCU	Brown Cuckoo-dove	3			736	
CHOW	Chowchilla	3	890		1301	
CICB	Cicadabird	2	2887	2280	2632	2545
DEFP	Double-eyed Fig-parrot	1	6810		6579	7373
DUHE	Dusky Honeyeater	2	2973	2538/5135	2908	5914
EAWB	Eastern Whipbird	3	1477	2370/3340	3634	2345
EDOV	Emerald Dove	1			474	472
FIGB	Figbird	2	2969	2020	3013	
FGNE	Fairy Gerygone	2			5435	
FWRN	Fernwren	1	2543		3565	
GBCU	Gould's Bronze Cuckoo	3			2564	2852
GHRO	Grey-headed Robin	1			2275	
GOWH	Golden Whistler	1	2759		1908	1520/2387
GRFA	Grey Fantail	1			5367	
GRHE	Graceful Honeyeater	5	3003	2034/4168	2708	2968
GRWH	Grey Whistler	3			2679	
HFRB	Helmeted Friarbird	2	1426	1433	1648	
KPRT	King Parrot	2	2828			
LBBB	Lemon-breasted Boatbill	4	4182		3473	
LBCU	Little Bronze Cuckoo	1	3082		2812	
LBGE	Large-billed Gerygone	2	3054		3483	3066
LBSW	Large-billed Scrubwren	2	4903	4755	4078	5049
LFLY	Leaden Flycatcher	1	4227			
LICS	Little Cuckoo-shrike	1				
MCHE	Macleay's Honeyeater	4	2952		3067	3307
MTBD	Mistletoebird	4	6830			
MEST	Metallic Starling	2	2807/8152		4386	
NPTA	Noisy Pitta	2	1967		1974	
OFSF	Orange-footed Scrub-fowl	3	912		1287	1292
PIMO	Pied Monarch	2	2535	3921	3085	2596/2873

CODE	Common name	Suitability for analysis	Reference			
			Call note	Alarm call	Song_1	Song_2
PYRO	Pale-yellow Robin	2	4939		6424	
RALO	Rainbow Lorikeet	1				
RBEE	Rainbow Beeeater	2				
ROWL	Rufous Owl	1			305	210
RUFA	Rufous Fantail	2	6696			
RUST	Rufous (Little) Shrike-thrush	4	3079		1364/2729	2456
SCAS	Southern Cassowary	1	114.5	97		
SCAT	Spotted Catbird	4	2579		1937	
SCCT	Sulphur-crested Cockatoo	1	2148			
SCHE	Scarlet Honeyeater	1				
SEYE	Silvereye	4			3552	3250
SFDV	Superb Fruit-dove	3	356		345	470
SPAR	Striated Pardalote	1				
SPDR	Spangled Drongo	3				
SPMO	Spectacled Monarch	5	5789		3199	
SQTK	Square-tailed Kite	1				
SUNB	Sunbird	3	4823	3525	3834	
TOPP	Topknot Pigeon	1				
TRSW	Tropical Scrubwren	1	3846		4579	
VATR	Varied Triller	3			2622	3076
VRBD	Victoria's Riflebird	3			2491	
WBWS	White-breasted Woodswallow	1				
WEMO	White-eared Monarch	1	2629		3552	
WOMP	Wompoo Pigeon	5	578		282	504
WRSW	White-rumped Swiftlet	1				
YOLE	Yellow Oriole	4	1555	1337	1222	
YSHE	Yellow-spotted Honeyeater	5	2735/5415	4665	3294	2945
YTSW	Yellow-throated Scrubwren	3			4522	
LFWR	Lovely fairy-wren	1			8200	

Appendix 3.2 – Dominant frequency of song for 18 Kuranda Range bird species



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**Appendix: Section 4
Effect of traffic noise on
avian populations and biodiversity**

Appendix 4.1 – List of avian species recorded in 2005 Kuranda range survey

Table A4.1: Avian species of the Kuranda Range (including conservation status, and habitat / feeding / strata guilds). Species shaded green are of conservation interest according to five status classifications described by Williams (2006). Status code indicates species is listed as Rare (R), Vulnerable (V) or Endangered (E) under either the *Nature Conservation Act (Qld) 2001*, The World Conservation Union Red List of Threatened Species 2001, or the *Environment Protection and Biodiversity Conservation Act 1999*; or is endemic to the Wet Tropics or is a regionally endemic subspecies (ES). Habitat, feeding and strata guild classification are from Williams (2006), Lawson (2004) and Moloney (2005).

CODE	Common name	Scientific name	Status	Habitat	Feeding	Strata
KPRT	Australian King Parrot	<i>Alisterus scapularis</i>	ES	Rainforest its main habitat. Common in other habitats	Omnivores	Exclusive canopy and emergents
AZKF	Azure Kingfisher	<i>Alcedo azurea</i>		Rainforest its main habitat. Common in other habitats	Carnivores	0-2 metres above ground
BCSH	Barred Cuckoo-shrike	<i>Coracina lineata</i>		Rainforest its main habitat. Common in other habitats	Omnivores	Exclusive canopy and emergents
BLBB	Black Butcherbird	<i>Cracticus quoyi</i>		Rainforest its main habitat. Common in other habitats	Omnivores	<2 metres up to and including canopy
BFMO	Black-faced Monarch	<i>Monarcha melanopsis</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Insectivores	<2 metres up to and including canopy
BOST	Bower's Shrike-thrush	<i>Colluricincla boweri</i>	Endemic	Rainforest obligate	Insectivores	<2 metres up to and including canopy
BRCU	Brown Cuckoo-dove	<i>Macropygia amboinensis</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Frugivores	Exclusive canopy and emergents
BGNE	Brown Gerygone	<i>Gerygone mouki</i>	ES	Rainforest obligate	Insectivores	<2 metres up to and including canopy
CHOW	Chowchilla	<i>Orthonyx spaldingii</i>	Endemic	Rainforest its core habitat. Occurs in wet sclerophyll	Omnivores	0-2 metres above ground
CICB	Cicadabird	<i>Coracina tenuirostris</i>		Uses rainforest as a suboptimal / marginal habitat	Omnivores	Exclusive canopy and emergents
DEFP	Double-eyed Fig-parrot	<i>Cyclopsitta diophthalma</i>	V	Rainforest its core habitat. Occurs in wet sclerophyll	Frugivores	<2 metres up to and including canopy
DUHE	Dusky Honeyeater	<i>Myzomela obscura</i>		Commonly found in rainforest.	Omnivores	<2 metres up to and including

CODE	Common name	Scientific name	Status	Habitat	Feeding	Strata
				Rainforest not its core habitat		canopy
EAWB	Eastern Whipbird	<i>Psophodes olivaceus</i>	ES	Rainforest its core habitat. Occurs in wet sclerophyll	Insectivores	0-2 metres above ground
EDOV	Emerald Dove	<i>Chalcophaps indica</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Frugivores	0-2 metres above ground
FGNE	Fairy Gerygone	<i>Gerygone palpebrosa</i>		Commonly found in rainforest. Rainforest not its core habitat	Insectivores	<2 metres up to and including canopy
FWRN	Fernwren	<i>Oreoscopus gutturalis</i>	Endemic	Rainforest obligate	Insectivores	0-2 metres above ground
FIGB	Figbird	<i>Sphecothebes viridis</i>		Commonly found in rainforest. Rainforest not its core habitat	Frugivores	<2 metres up to and including canopy
GBCU	Gould's Bronze-Cuckoo	<i>Chrysococcyx russatus</i>		Rainforest its main habitat. Common in other habitats	Insectivores	<2 metres up to and including canopy
GHRO	Grey-headed Robin	<i>Heteromyias albispecularis</i>	ES	Rainforest its core habitat. Occurs in wet sclerophyll	Insectivores	0-2 metres above ground
GOWH	Golden Whistler	<i>Pachycephala pectoralis</i>		Rainforest its main habitat. Common in other habitats	Insectivores	<2 metres up to and including canopy
GRFA	Grey Fantail	<i>Rhipidura fuliginosa</i>		Commonly found in rainforest. Rainforest not its core habitat	Insectivores	<2 metres up to and including canopy
GRHE	Graceful Honeyeater	<i>Meliphaga gracilis</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Omnivores	<2 metres up to and including canopy
GRWH	Grey Whistler	<i>Pachycephala simplex</i>		Commonly found in rainforest. Rainforest not its core habitat	Insectivores	<2 metres up to and including canopy
HFRB	Helmeted Friarbird	<i>Philemon buceroides</i>		Commonly found in rainforest. Rainforest not its core habitat	Nectarivores	Exclusive canopy and emergents
LBBB	Lemon-breasted Boatbill	<i>Machaerirhynchus flaviventer</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Insectivores	<2 metres up to and including canopy
LBGE	Large-billed Gerygone	<i>Gerygone magnirostris</i>		Commonly found in rainforest. Rainforest not its core habitat	Insectivores	<2 metres up to and including canopy
LBSW	Large-billed Scrubwren	<i>Sericornis magnirostris</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Insectivores	<2 metres up to and including canopy

CODE	Common name	Scientific name	Status	Habitat	Feeding	Strata
LFLY	Leaden Flycatcher	<i>Myiagra rebucela</i>		Not found in rainforest	Insectivores	<2 metres up to and including canopy
LBCU	Little Bronze-Cuckoo	<i>Chrysococcyx minutillus</i>		Rainforest its main habitat. Common in other habitats	Insectivores	<2 metres up to and including canopy
LICS	Little Cuckoo-shrike	<i>Coracina papuensis</i>		Occasionally recorded in rainforest	Omnivores	<2 metres up to and including canopy
LFWR	Lovely Fairy-wren	<i>Malurus amabilis</i>		Uses rainforest as a suboptimal / marginal habitat	Insectivores	0-2 metres above ground
MCHE	Macleay's Honeyeater	<i>Xanthotis macleayana</i>	Endemic	Rainforest its core habitat. Occurs in wet sclerophyll	Omnivores	<2 metres up to and including canopy
MEST	Metallic Starling	<i>Aplonis metallica</i>		Rainforest its main habitat. Common in other habitats	Frugivores	<2 metres up to and including canopy
MTBD	Mistletoebird	<i>Dicaeum hirundinaceum</i>		Commonly found in rainforest. Rainforest not its core habitat	Frugivores	<2 metres up to and including canopy
NPTA	Noisy Pitta	<i>Pitta versicolor</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Omnivores	0-2 metres above ground
OFSF	Orange-footed Scrub-fowl	<i>Megapodius reinwardt</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Omnivores	0-2 metres above ground
PIMO	Pied Monarch	<i>Arses kaupi</i>	Endemic	Rainforest its core habitat. Occurs in wet sclerophyll	Insectivores	<2 metres up to and including canopy
PYRO	Pale-yellow Robin	<i>Tregellasia capito</i>	ES	Rainforest its core habitat. Occurs in wet sclerophyll	Insectivores	0-2 metres above ground
RALO	Rainbow Lorikeet	<i>Trichoglossus haematodus</i>		Rainforest its main habitat. Common in other habitats	Nectarivores	Exclusive canopy and emergents
RBEE	Rainbow Bee-eater	<i>Merops ornatus</i>		Commonly found in rainforest. Rainforest not its core habitat	Insectivores	<2 metres up to and including canopy
ROWL	Rufous Owl	<i>Ninox rufa</i>	V	Commonly found in rainforest. Rainforest not its core habitat	Carnivores	Exclusive canopy and emergents
RUFA	Rufous Fantail	<i>Rhipidura rufifrons</i>		Rainforest its main habitat. Common in other habitats	Insectivores	<2 metres up to and including canopy

CODE	Common name	Scientific name	Status	Habitat	Feeding	Strata
RUST	Rufous Shrike-thrush	<i>Colluricincla megarhyncha</i>		Rainforest its main habitat. Common in other habitats	Insectivores	<2 metres up to and including canopy
SCAS	Southern Cassowary	<i>Casuarius casuarius</i>	E	Rainforest obligate	Frugivores	0-2 metres above ground
SCAT	Spotted Catbird	<i>Ailuroedus melanotis</i>	ES	Rainforest its core habitat. Occurs in wet sclerophyll	Omnivores	<2 metres up to and including canopy
SCCT	Sulphur-crested Cockatoo	<i>Cacatua galerita</i>		Commonly found in rainforest. Rainforest not its core habitat	Omnivores	Exclusive canopy and emergents
SCHE	Scarlet Honeyeater	<i>Myzomela sanguinolenta</i>		Uses rainforest as a suboptimal / marginal habitat	Omnivores	Exclusive canopy and emergents
SEYE	Silvereeye	<i>Zosterops lateralis</i>		Rainforest its main habitat. Common in other habitats	Omnivores	<2 metres up to and including canopy
SFDV	Superb Fruit-Dove	<i>Ptilinopus superbus</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Frugivores	<2 metres up to and including canopy
SPAR	Striated Pardalote	<i>Pardalotus striatus</i>		Occasionally recorded in rainforest	Insectivores	<2 metres up to and including canopy
SPDR	Spangled Drongo	<i>Dicrurus bracteatus</i>		Commonly found in rainforest. Rainforest not its core habitat	Insectivores	<2 metres up to and including canopy
SPMO	Spectacled Monarch	<i>Monarcha trivirgatus</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Insectivores	<2 metres up to and including canopy
SQTK	Square-tailed Kite	<i>Lophoictinia isura</i>	R	Not found in rainforest	Carnivores	Exclusive canopy and emergents
TOPP	Topknot Pigeon	<i>Lopholaimus antarcticus</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Frugivores	Exclusive canopy and emergents
VATR	Varied Triller	<i>Lalage leucomela</i>		Commonly found in rainforest. Rainforest not its core habitat	Omnivores	<2 metres up to and including canopy
VRBD	Victoria's Riflebird	<i>Ptiloris victoriae</i>	Endemic	Rainforest its core habitat. Occurs in wet sclerophyll	Omnivores	<2 metres up to and including canopy
WEMO	White-eared Monarch	<i>Monarcha leucotis</i>	ES	Rainforest its core habitat. Occurs in wet sclerophyll	Insectivores	Exclusive canopy and emergents
WBWS	White-breasted Woodswallow	<i>Artamus leucorhynchus</i>		Commonly found in rainforest. Rainforest not its core habitat	Insectivores	Exclusive canopy and emergents

CODE	Common name	Scientific name	Status	Habitat	Feeding	Strata
WRSW	White-rumped Swiftlet	<i>Collocalia spodiopygius</i>	R	Rainforest its core habitat. Occurs in wet sclerophyll	Insectivores	Exclusive canopy and emergents
WOMP	Wompoo Pigeon	<i>Ptilinopus magnificus</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Frugivores	<2 metres up to and including canopy
SUNB	Yellow-bellied Sunbird	<i>Nectarinia jugularis</i>		Uses rainforest as a suboptimal / marginal habitat	Nectarivores	<2 metres up to and including canopy
YOLE	Yellow Oriole	<i>Oriolus flavocinctus</i>		Commonly found in rainforest. Rainforest not its core habitat	Frugivores	Exclusive canopy and emergents
YSHE	Yellow-spotted Honeyeater	<i>Meliphaga notata</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Omnivores	<2 metres up to and including canopy
YTSW	Yellow-throated Scrubwren	<i>Sericornis citreogularis</i>		Rainforest its core habitat. Occurs in wet sclerophyll	Omnivores	0-2 metres above ground