

**Ecology and Behaviour of *Pachycephala rufogularis*
and *P. inornata* (Aves: Pachycephalidae)
in Woodlands of South Australia**



Immature *Pachycephala rufogularis* at Gluepot. (Photo D. Moise)

Dragos Moise

BSc (Hons)

Discipline of Ecology and Evolutionary Biology

University of Adelaide

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Appendix 1: Morphometrical data of *Pachycephala rufogularis* (RLW) and *P. inornata* (GBW) individuals mist-netted at Gluepot Reserve and Ngarkat CP. (Gluepot data previous 2005 courtesy of Mr. Wally Klau)

RTP – retrap; M – male, F – female, U – sex unknown; A – adult, IMM – immature;

WT – weight, LE – total length, WL – wing length, TL – tail length, HB – head and bill length, BL – bill length, CL – culmen length, Tars – tarsus length (see text for details)

* - this particularly heavy female *Pachycephala rufogularis* from Ngarkat had egg inside (was gravid); its weight not included in analysis.

LOCATION	DATE	BAND	RTP	SP	AGE	SEX	WT	LE	WL	TL	HB	BL	CL	Tars
Gluepot Res	10-Jul-00	035-30094		GBW	IMM	M	29.0	197.0	100.0		38.2			
Gluepot Res	22-Sep-05	035-30094	R	GBW	AD	M	30.5		102.0	85.0	38.3			23.6
Gluepot Res	28-Nov-00	035-33591		GBW	AD	F	21.5	190.0	85.0		38.5			
Gluepot Res	28-Nov-00	035-33592		GBW	AD	M	29.0	191.0	92.0		37.2			
Gluepot Res	02-Dec-00	035-33594		GBW	AD	F	28.5		108.0		39.0			
Gluepot Res	28-Mar-01	035-33617		GBW	AD	F	28.5		99.0	87.0	38.7	17.4		24.3
Gluepot Res	08-Dec-03	035-33807		GBW	AD	M	34.0		96.0	82.0	39.2			
Gluepot Res	08-Dec-03	035-33808		GBW	AD	F	32.0		100.0	89.0	38.3			
Gluepot Res	18-Apr-05	035-33833		GBW	AD	M	31.5	104.0	99.0	91.0	38.9	16.4	12.0	29.5
Gluepot Res	19-Sep-05	035-33838		GBW	AD	M	31.0		101.0	86.0	39.1			24.6
Gluepot Res	21-Sep-05	035-33839		GBW	AD	F	30.5		102.0	90.0	38.2			23.7
Gluepot Res	21-Sep-05	035-33840		GBW	AD	M	29.5		101.0	85.0	38.3			24.6
Gluepot Res	02-Nov-05	035-33842		GBW	AD	M	32.0		100.0	88.0	37.9			
Gluepot Res	05-Dec-05	035-33849		GBW	IMM	U	36.0	197.0	94.0	88.0	39.6	19.7	14.3	24.7
Gluepot Res	07-Dec-05	035-33849	R	GBW	IMM	U	36.0	197.0	94.0	88.0	39.6	19.7	14.3	24.7
Gluepot Res	14-Mar-05	042-26650		RLW	AD	F	35.5	209.0	115.0	91.0	41.2			26.0
Gluepot Res	16-Jun-05	042-26621		RLW	AD	M	41.0	210.0	112.0	90.0	42.2	21.7	14.5	27.0
Gluepot Res	05-Dec-05	042-26640		RLW	IMM	M	37.0	214.0	108.0	90.0	42.1	21.2	16.6	27.0
Ngarkat CP	04-Sep-05	042-39472		RLW	IMM	F	50.0*		114.0	97.0	40.8	18.3	13.3	26.7
Ngarkat CP	22-Sep-05	042-39473		RLW	IMM	F	40.0		108.0	86.0	41.2		13.0	25.7

Appendix 2. Residency data for *Pachycephala rufogularis* at Gluepot.

The records come from Gluepot Reserve Database: searches in the Atlas sites established as part of the water points study (Harrington 2002), surveys in the malleefowl grids (Baker-Gabb 2002), visitors' sightings (the ones without GPS coordinates), and also from the present study. All coordinates are in WGS84 datum.

Code	Month-Year	Easting	Northing	Location
R1	Mar-00			end of Malleefowl Walk
R1	May-00			end of Malleefowl Walk
R1	Sep-00			end of Malleefowl Walk
R1	Nov-00			end of Malleefowl Walk
R1	Apr-01			end of Malleefowl Walk
R1	Jul-01			end of Malleefowl Walk
R1	Oct-01			end of Malleefowl Walk
R1	Nov-01			end of Malleefowl Walk
R1	Sep-02			Malleefowl Walk
R1	Sep-02			Malleefowl Walk
R1	Oct-02			1.6 km down Malleefowl Walk
R1	Sep-03			Malleefowl Walk
R1	Mar-04			end of Malleefowl Walk
R1	Apr-04			end of Malleefowl Walk
R1	Jul-04			Malleefowl Walk
R1	Aug-04			Malleefowl Walk
R1	Sep-04	427066	6261542	end of Malleefowl Walk
R1	Sep-04			Malleefowl Walk
R1	Oct-04	427261	6261500	end of Malleefowl Walk
R1	Oct-04			end of Malleefowl Walk
R1	Nov-04	427464	6261569	end of Malleefowl Walk
R1	Jan-05			end of malleefowl walk
R1	Mar-05	427270	6261400	end of Malleefowl Walk
R1	Mar-05			Malleefowl Walk
R1	Apr-05	427355	6261586	end of Malleefowl Walk
R1	Oct-05			end of Malleefowl Walk
R1	May-06	427169	6261556	end of Malleefowl Walk
R2?/R6?	Nov-99	435040	6265065	Birdseye
R2?/R6?	Mar-02	435088	6264977	Malleefowl Grid 3/F, Birdseye
R2?/R6?	Apr-02	435860	6264353	Malleefowl Grid 3/B, Birdseye
R2	Sep-04	435580	6265292	Birdseye, study area
R2	Oct-04	435409	6265330	Birdseye, study area
R2	Nov-04	435850	6265400	Birdseye, study area
R2	Mar-05	436090	6265229	Birdseye, study area
R2	Apr-05	435954	6265249	Birdseye, study area
R2	Jun-05	436051	6265250	Birdseye, study area
R2	Oct-05	436005	6265260	Birdseye, study area
R2	Nov-05	436169	6265155	Birdseye, study area
R2	Dec-05	436106	6265259	Birdseye, study area
R2	May-06	435985	6265253	Birdseye, study area
R2	Nov-06	435250	6265240	Birdseye, study area
R3	Sep-04	439650	6261328	Gluepot / Calperum
R3	Oct-04	439825	6260941	Gluepot / Calperum
R3	Apr-05	439770	6261500	Gluepot / Calperum
R3	Jun-05	439803	6261548	Gluepot / Calperum
R3	Oct-05	439760	6261150	Gluepot / Calperum
R3	Nov-05	439739	6261034	Gluepot / Calperum
R3	Dec-05	439640	6261073	Gluepot / Calperum
R3	May-06	438504	6261555	Gluepot / Calperum

Appendix 2. (contd.). Residency data for *Pachycephala rufogularis* at Gluepot.

Code	Month-Year	Easting	Northing	Location
R4	Oct-04	438352	6265988	Birdseye, study area
R4	Nov-04	438525	6265725	Birdseye, study area
R4	Mar-05	435998	6266011	Birdseye, study area
R4	Aug-05	435965	6265938	Birdseye, study area
R4	Oct-05	436985	6265970	Birdseye, study area
R4	Nov-05	436859	6266035	Birdseye, study area
R4	Dec-05	435549	6265558	Birdseye, study area
R5	Oct-99	430331	6265278	site LS6A, Birdseye
R5	Oct-01	431177	6256970	Birdseye
R5?	Apr-02	430215	6263481	Malleefowl Grid 5/D, Birdseye
R5	Oct-04	430489	6265164	Birdseye, study area
R5	Dec-05	431750	6265394	Birdseye, study area
R6	Sep-04	436857	6265386	Birdseye, study area
R6	Oct-04	435847	6265404	Birdseye, study area
R6	Nov-04	436790	6265780	Birdseye, study area
R6	Mar-05	435534	6264613	Birdseye, study area
R6	Aug-05	434856	6265747	Birdseye, study area
R6	Oct-05	436157	6265317	Birdseye, study area
R6	Dec-05	436117	6265174	Birdseye, study area
R6	May-06	436946	6264477	Birdseye, study area
R7	Apr-99	439663	6258227	Birdseye, SE corner
R7	Oct-04	439804	6258460	Gluepot / Taylorville
R7	Nov-04	439807	6258425	Gluepot / Taylorville
R7	Mar-05	439832	6258381	Gluepot / Taylorville
R7	Aug-05	439931	6258242	Gluepot / Taylorville
R7	Oct-05	439700	6258200	Gluepot / Taylorville
R7	Nov-05	439779	6258406	Gluepot / Taylorville
R8?	Oct-99	432145	6256143	site LS8B, Birdseye
R8?	Jan-00	432145	6256143	site LS8B, Birdseye
R8	Nov-04	434047	6258228	Birdseye
R8	Apr-05	434056	6258298	Birdseye
R8	Oct-05	433935	6258245	Birdseye
R9	May-00			halfway down Whistler Walk
R9	May-01			Whistler Tank area (Whistler Walk)
R9	Sep-01			halfway down Whistler Walk
R9	Oct-01			Whistler Walk
R9	Apr-02			Whistler Walk
R9	Sep-02			Whistler Walk
R9	Sep-03			Whistler Walk
R9	Apr-05			Whistler Walk
R9	Oct-05			Whistler Walk
R9?/R10?	May-02			1 km E of whistler walk
R10	Sep-98	421361	6264007	around Babbler Campsite
R10	Sep-00			Babbler Campsite area
R10	Oct-00			South of Babbler Campsite
R10	Aug-05			roadside at Babbler Camp

Appendix 3. Plant species identified and their recorded frequency of occurrence in quadrats from core areas of *Pachycephala rufogularis* (RLW, n = 21) and *P. inornata* (GBW, n = 24) home ranges at Gluepot

code	species	common name	family	RLW	GBW
ACBR	<i>Acacia brachybotrya</i>	Grey Mulga	Leguminosae	1	1
ACCO	<i>Acacia colletioides</i>	Wait-a-while	Leguminosae	0	13
ACNY	<i>Acacia nysophylla</i>	Spine-bush	Leguminosae	0	4
ACSC	<i>Acacia sclerophylla</i>	Hard-leaf Wattle	Leguminosae	3	9
ACUL	<i>Actinoble uliginosum</i>	Flannel Cudweed	Compositae	0	3
ACWI	<i>Acacia wilhelmiana</i>	Dwarf Nealie	Leguminosae	5	0
ATRH	<i>Atriplex rhagodioides</i>	River Salt-bush	Chenopodiaceae	0	2
ATST	<i>Atriplex stipitata</i>	Bitter Salt-bush	Chenopodiaceae	0	6
AUEL	<i>Austrostipa elegantissima</i>	Elegant Speargrass	Poaceae	1	0
AUNI	<i>Austrostipa nitida</i>	Balcarra Grass	Poaceae	4	16
BACR	<i>Baeckea crassifolia</i>	Desert Baeckea	Myrtaceae	3	2
BELE	<i>Beyeria lechenaultii</i>	Felted Wallaby-bush	Euphorbiaceae	1	0
BEOP	<i>Beyeria opaca</i>	Smooth Wallaby-bush	Euphorbiaceae	10	4
BOCO	<i>Boronia coerulescens</i>	Blue Boronia	Rutaceae	1	0
BRCI	<i>Brachycome ciliaris</i>	Variable Daisy	Compositae	1	1
CAME	<i>Cassytha melantha</i>	Strangle Vine	Lauraceae	0	1
CAPA	<i>Casuarina pauper</i>	Black Oak	Casuarinaceae	0	3
CAVE	<i>Callitris verrucosa</i>	Mallee Cypress Pine	Cupressaceae	9	6
CHDE	<i>Chenopodium desertorum</i>	Desert Goosefoot	Chenopodiaceae	0	3
CRCO	<i>Cratystylis conocephala</i>	Blue-bush Daisy	Compositae	0	2
CRPR	<i>Cryptandra propinqua</i>	Silky Cryptandra	Myrtaceae	4	1
DABE	<i>Daviesia benthamii</i>	Spiny Bitter-pea	Leguminosae	4	1
DIPA	<i>Dissocarpus paradoxus</i>	Cannon Ball	Chenopodiaceae	0	1
DOBU	<i>Dodonea bursarifolia</i>	Low Hop-bush	Sapindaceae	4	3
DOVI	<i>Dodonea viscosa</i> ssp. <i>angustifolia</i>	Narrow-leaved Hop-bush	Sapindaceae	1	4
ENTO	<i>Enchylaena tomentosa</i>	Ruby Salt-bush	Chenopodiaceae	0	8
ERGL	<i>Eremophila glabra</i>	Tar Bush	Myoporaceae	2	8
ERSC	<i>Eremophila scoparia</i>	Scotia Bush	Myoporaceae	0	1
EUDU	<i>Eucalyptus dumosa</i>	Dumosa Mallee	Myrtaceae	16	6
EUGR	<i>Eucalyptus gracilis</i>	Yorrell	Myrtaceae	8	11
EUIN	<i>Eucalyptus incrassata</i>	Ridge-fruit Mallee	Myrtaceae	1	1
EULE	<i>Eucalyptus leptophylla</i>	Narrow-leaved Red Mallee	Myrtaceae	7	1
EUOL	<i>Eucalyptus oleosa</i>	Acorn Mallee	Myrtaceae	1	14
EUSO	<i>Eucalyptus socialis</i>	Beaked Red Mallee	Myrtaceae	21	11
EXAP	<i>Exocarpos aphyllus</i>	Leafless Cherry	Santalaceae	0	2
GRHU	<i>Grevillea huegelii</i>	Comb Spider-flower	Proteaceae	13	7
LOEF	<i>Lomandra effusa</i>	Scented Iron-grass	Liliaceae	0	1
LYAU	<i>Lycium australe</i>	Native Boxthorn	Solanaceae	0	1
MAAP	<i>Maireana appressa</i>	Appressed Blue-bush	Chenopodiaceae	0	9
MAPE	<i>Maireana pentratropis</i>	Erect Mallee Blue-bush	Chenopodiaceae	1	18
MASE	<i>Maireana sedifolia</i>	Pearl Blue-bush	Chenopodiaceae	0	2
MELA	<i>Melaleuca lanceolata</i>	Moonah	Myrtaceae	4	1
MYPL	<i>Myoporum platycarpum</i>	Sugarwood	Myoporaceae	8	10
NIGO	<i>Nicotiana goodspeedii</i>	Small-flowered Tobacco	Solanaceae	0	1
OLMU	<i>Olearia muelleri</i>	Mueller's Daisy-bush	Compositae	3	5
OLPI	<i>Olearia pimeleiodes</i>	Pimelea Daisy-bush	Compositae	1	1
OLTE	<i>Olearia teretifolia</i>	Cypress Daisy-bush	Compositae	0	2
PRAS	<i>Prostanthera aspalathoides</i>	Scarlet Mint-bush	Labiatae	1	1
PUDE	<i>Pultenaea densifolia</i>	Dense-leaved Bush-pea	Leguminosae	2	0

Appendix 3. (cont.). Plant species identified and their recorded frequency of occurrence in quadrats from core areas of *Pachycephala rufogularis* (RLW, n = 21) and *P. inornata* (GBW, n = 24) home ranges at Gluepot

code	species	common name	family	RLW	GBW
RHGA	<i>Rhgodia gaudichaudiana</i>	Cottony Salt-bush	Chenopodiaceae	0	3
RHSP	<i>Rhgodia spinescens</i>	Spiny Salt-bush	Chenopodiaceae	0	2
RHUL	<i>Rhgodia ulicina</i>	Spiny Goosefoot	Chenopodiaceae	0	4
SAAC	<i>Santalum acuminatum</i>	Sweet Quandong	Santalaceae	2	5
SAMU	<i>Santalum murrayanum</i>	Bitter Quandong	Santalaceae	0	1
SCPT	<i>Sclerolaena patenticuspis</i>	Mallee Copperburr	Chenopodiaceae	0	2
SCPV	<i>Sclerolaena parviflora</i>	Spear-fruit Copperburr	Chenopodiaceae	2	3
SCSP	<i>Scaevola spinescens</i>	Spiny Fan-flower	Goodeniaceae	0	1
SEAR	<i>Senna</i> ft. <i>artemisioides</i>	Silver Cassia	Leguminosae	1	11
SECO	<i>Senna</i> ft. <i>coriacea</i>	Desert Cassia	Leguminosae	0	7
SENE	<i>Senna</i> ft. <i>nemophila</i>	Desert Cassia	Leguminosae	1	15
SEPE	<i>Senna</i> ft. <i>petiolaris</i>	Desert Cassia	Leguminosae	0	7
TEEG	<i>Templetonia egena</i>	Desert Broom	Leguminosae	14	4
TRSC	<i>Triodia scariosa</i>	Spinifex	Poaceae	20	5
WERI	<i>Westringia rigida</i>	Stiff Rosemary	Labiatae	12	3
ZYAP	<i>Zygophyllum apiculatum</i>	Gallweed	Zygophyllaceae	0	6
ZYAU	<i>Zygophyllum aurantiacum</i>	Shrubby Twinleaf	Zygophyllaceae	0	10
ZYGL	<i>Zygophyllum glaucum</i>	Glaucous Twinleaf	Zygophyllaceae	0	1

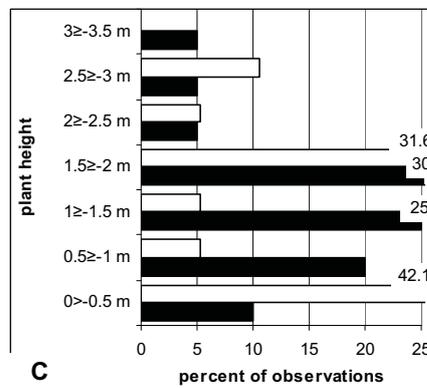
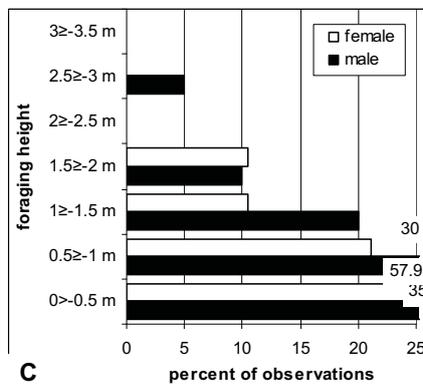
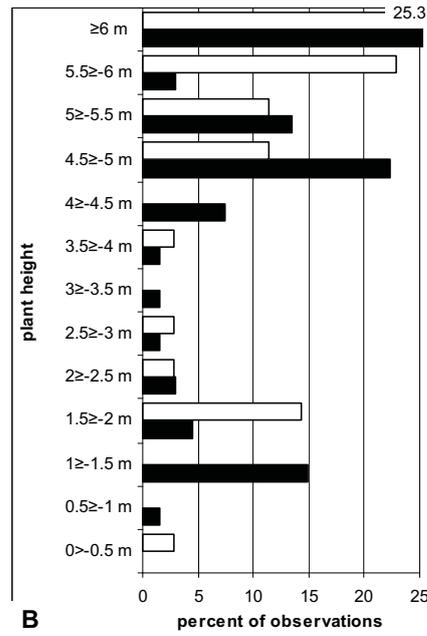
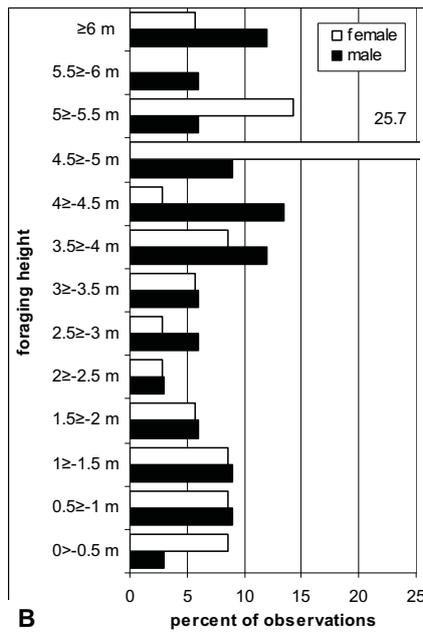
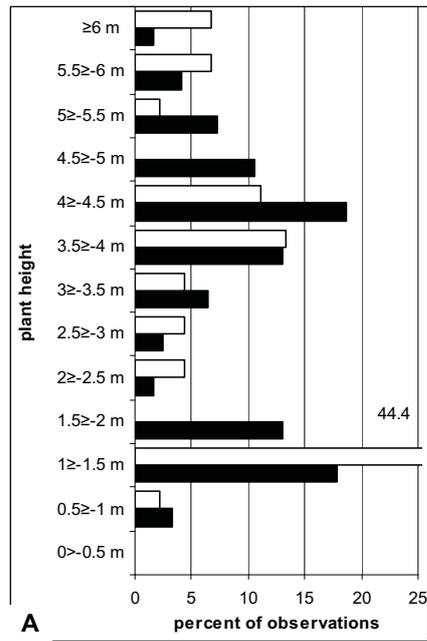
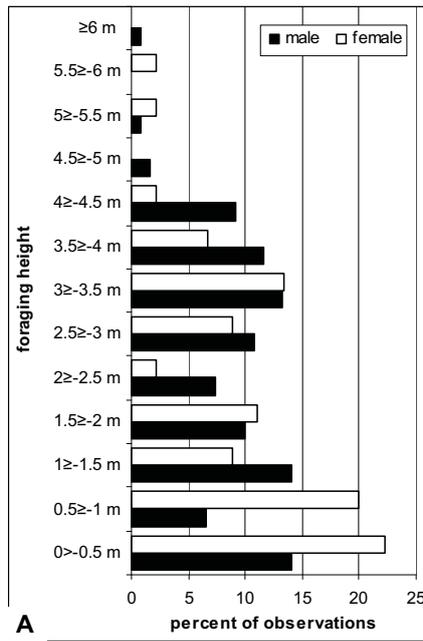
Appendix 4. Plant species identified and their recorded frequency of occurrence in quadrats from core areas of *Pachycephala rufogularis* (n = 12) at Ngarkat

code	species	common name	family	freq
ACAF	<i>Acrotriche affinis</i>	Prickly Honeypots	Epacridaceae	1
ACSP	<i>Acacia spinescens</i>	Spiny Wattle	Leguminosae	8
ADTE	<i>Adenanthos terminalis</i>	Gland flower	Proteaceae	2
ALMU	<i>Allocasuarina muelleriana</i>	Slaty She-oak	Casuarinaceae	2
ALPU	<i>Allocasuarina pusilla</i>	Dwarf She-oak	Casuarinaceae	5
ASCO	<i>Astroloma constephioides</i>	Flame Heath	Epacridaceae	9
ASHU	<i>Astroloma humifusum</i>	Native Cranberry	Epacridaceae	6
AUSP	<i>Austrostipa sp.</i>	Speargrass	Poaceae	2
BABE	<i>Baeckea behrii</i>	Broom Baeckea	Myrtaceae	9
BACR	<i>Baeckea crassifolia</i>	Desert Baeckea	Myrtaceae	6
BAER	<i>Baeckea ericaea</i>	Mat Baeckea	Myrtaceae	1
BAOR	<i>Banksia ornata</i>	Desert Banksia	Proteaceae	5
BELE	<i>Beyeria leschenaultii</i>	Pale Turpentine Bush	Euphorbiaceae	2
BEMI	<i>Bertya mitchellii</i>	Mitchell Bertya	Euphorbiaceae	3
BICY	<i>Billardiera cymosa</i>	Sweet Apple-berry	Oxalidaceae	2
BOCA	<i>Boronia caerulea</i>	Blue Boronia	Rutaceae	2
BRDA	<i>Brachyloma daphnoides</i>	Daphne Heath	Epacridaceae	2
BRER	<i>Brachyloma ericoides</i>	Brush Heath	Epacridaceae	5
CAGL	<i>Cassytha glabella</i>	Slender Dodder-laurel	Lauraceae	3
CAPU	<i>Cassytha pubescens</i>	Downy Dodder-laurel	Lauraceae	2
CATE	<i>Calytrix tetragona</i>	Common Fringe-myrtle	Myrtaceae	10
CAVE	<i>Callitris verrucosa</i>	Mallee Cypress-pine	Cupressaceae	1
CLMI	<i>Clematis microphylla</i>	Old Man's Beard	Ranunculaceae	2
CORE	<i>Correa reflexa</i>	Common Correa	Rutaceae	7
CRLE	<i>Cryptandra leucophracta</i>	Rusty Poison	Rhamnaceae	5
CRTO	<i>Cryptandra tomentosa</i>	Prickly Cryptandra	Rhamnaceae	8
DABR	<i>Daviesia brevifolia</i>	Leafless Bitter-pea	Leguminosae	1
DARO	<i>Dampiera rosmarinifolia</i>	Rosemary Dampiera	Goodeniaceae	2
DRMA	<i>Drosera macrantha</i> ssp. <i>planchonii</i>	Climbing Sundew	Droseraceae	1
DRWH	<i>Drosera whittakeri</i>	Scented Sundew	Droseraceae	6
EUIN	<i>Eucalyptus incrassata</i>	Ridge-fruit Mallee	Myrtaceae	10
EULE	<i>Eucalyptus leptophylla</i>	Narrow-leaved Red Mallee	Myrtaceae	8
EULX	<i>Eucalyptus leucoxylon</i>	South Australian Blue Gum	Myrtaceae	4
EUSO	<i>Eucalyptus socialis</i>	Beaked Red Mallee	Myrtaceae	6
EXSP	<i>Exocarpus sparteus</i>	Broom Ballart	Santalaceae	6
GADE	<i>Gahnia deusta</i>	(not available)	Cyperaceae	1
GRIL	<i>Grevillea ilicifolia</i>	Holly-leaved Grevillea	Proteaceae	4
HAMU	<i>Hakea muelleriana</i>	Desert Hakea	Proteaceae	11
HIRI	<i>Hibbertia riparia</i>	Erect Guinea-flower	Dilleniaceae	4
HISE	<i>Hibbertia sericea</i>	Silky Guinea-flower	Dilleniaceae	7
HIVI	<i>Hibbertia virgata</i>	Twiggy Guinea-flower	Dilleniaceae	3
ISCE	<i>Isopogon ceratophyllus</i>	Cone-bush	Proteaceae	1
ISMA	<i>Isolepis marginata</i>	Coarse Club-rush	Cyperaceae	8
KUPO	<i>Kunzea pomifera</i>	Muntries	Myrtaceae	3
LABE	<i>Lasiopetalum behrii</i>	Pink Velvet-bush	Sterculiaceae	3
LECD	<i>Leucopogon cordifolius</i>	Heart-leaf Beard-heath	Epacridaceae	4
LECO	<i>Leptospermum coriaceum</i>	Coast Tea-tree	Myrtaceae	9
LEDR	<i>Lepidobolus drapetocoleus</i>	Scale Shedder	Restionaceae	7
LELA	<i>Lepidosperma laterale</i>	Variable Sword-sedge	Cyperaceae	7

Appendix 4. (cont.). Plant species identified and their recorded frequency of occurrence in quadrats from core areas of *Pachycephala rufogularis* (n = 12) at Ngarkat

code	species	common name	family	freq
LEMY	<i>Leptospermum myrsinoides</i>	Heath Tea-tree	Myrtaceae	3
LERU	<i>Leucopogon rufus</i>	Ruddy Bearded-heath	Epacridaceae	2
LESP	<i>Lepidosperma</i> sp.	Sword-sedge	Cyperaceae	6
LOEF	<i>Lomandra effusa</i>	Scented Iron-grass	Liliaceae	4
MELA	<i>Melaleuca lanceolata</i>	Moonah	Myrtaceae	2
MEUN	<i>Melaleuca uncinata</i>	Broombush	Myrtaceae	2
MICI	<i>Micromyrtus ciliata</i>	Fringed Heath-myrtle	Myrtaceae	2
PEJU	<i>Persoonia juniperina</i>	Prickly Geebung	Proteaceae	2
PHBU	<i>Phebalium bullatum</i>	Silvery Phebalium	Rutaceae	1
PHPL	<i>Phyllota pleurandroides</i>	Heathy Phyllota	Leguminosae	5
PTSP	<i>Pterostylis</i> sp.	Green-hood	Orchidaceae	1
PUTE	<i>Pultenaea tenuifolia</i>	Bush-pea	Leguminosae	2
SPSU	<i>Spyridium subochreatum</i>	Velvet Spyridium	Rhamnaceae	3
TRSC	<i>Triodia scariosa</i>	Spinifex	Poaceae	10
WEER	<i>Westringia eremicola</i>	Slender Westringia	Labiatae	3
XACE	<i>Xanthorrhoea caespitosa</i>	Grass-tree	Liliaceae	4

Appendix 5. Comparison between the distribution of foraging heights and heights of plants used as substrates
 A: *Pachycephala rufogularis*, Gluepot; B: *P. inornata*, Gluepot; C: *P. rufogularis*, Ngarkat



Appendix 6. Plant species used as foraging substrates by *Pachycephala rufogularis* and *P. inornata* at Gluepot. Life forms after Heard and Channon (1997), modified: GL - Grass <0.5 m, H - Hummock grass, KT - Mallee (>3 m), M - Tree >5 m, L - Tree 2-5 m, S - Shrub >2 m, SA - Shrub 1.5-2 m, SB - Shrub 1-1.5 m, SC-Shrub 0.5-1 m (life form based on the mean of heights of plant species actually used as foraging substrates)
RLW – *P. rufogularis*, GBW – *P. inornata*; a cross indicates that the plant species was used as substrate in foraging

abbrev	species	common name	life form	RLW	GBW
ACCO	<i>Acacia colletioides</i>	Wait-a-while	S		x
ACSC	<i>Acacia sclerophylla</i>	Hard-leaf Wattle	SB	x	x
ACWI	<i>Acacia wilhelmiana</i>	Dwarf Nealie	SB	x	
AUNI	<i>Austrostipa nitida</i>	Balcarra Grass	GL		x
CAPA	<i>Casuarina pauper</i>	Black Oak	M		x
CAVE	<i>Callitris verrucosa</i>	Mallee Cypress Pine	L	x	
DABE	<i>Daviesia benthamii</i>	Spiny Bitter Pea	SB	x	
EUDU	<i>Eucalyptus dumosa</i>	Dumosa Mallee	KT	x	x
EUGR	<i>Eucalyptus gracilis</i>	Yorell	KT	x	x
EULE	<i>Eucalyptus leptophylla</i>	Narrow-leaved Red Mallee	KT	x	x
EUOL	<i>Eucalyptus oleosa</i>	Acorn Mallee	KT	x	x
EUSO	<i>Eucalyptus socialis</i>	Beaked Red Mallee	KT	x	x
EXAP	<i>Exocarpos aphyllus</i>	Leafless Cherry	L		x
GRHU	<i>Grevillea huegelii</i>	Comb Spider-flower	SC	x	x
MELA	<i>Melaleuca lanceolata</i>	Moonah	S	x	
MYPL	<i>Myoporum platycarpum</i>	Sugarwood	L	x	x
SECO	<i>Senna</i> ft. <i>coriacea</i>	Desert Cassia	SA	x	x
SENE	<i>Senna</i> ft. <i>nemophila</i>	Desert Cassia	SA	x	x
TEEG	<i>Templetonia egena</i>	Desert Broom	SC	x	
TRSC	<i>Triodia scariosa</i>	Spinifex	H	x	

Appendix 7. Plant used as foraging substrates by *Pachycephala rufogularis* at Ngarkat.

Life forms after Heard and Channon (1997), modified: GL - Grass <0.5 m, H - Hummock grass, VL – Sedges < 0.5 m, KS – Low Mallee (<3 m), KT - Mallee (>3 m), M - Tree >5 m, L - Tree 2-5 m, S - Shrub >2 m, SA - Shrub 1.5-2 m, SB - Shrub 1-1.5 m, SC - Shrub 0.5-1 m, SD - Shrub < 0.5 m (life form based on the mean of heights of plant species actually used as foraging substrates)

abbrev	species	common name	life form
ACSP	<i>Acacia spinescens</i>	Spiny Wattle	SC
AUsp	<i>Austrostipa</i> spp.	Speargrass	GL
BABE	<i>Baeckea behrii</i>	Broom Baekea	SB
BACR	<i>Baeckea crassifolia</i>	Desert Baekea	SD
BRER	<i>Brachyloma ericoides</i>	Brush Heath	SD
CATE	<i>Calytrix tetragona</i>	Common Fringe-myrtle	SC
EUIN	<i>Eucalyptus incrassata</i>	Ridge-fruited Mallee	KS
EULX	<i>Eucalyptus leucoxylon</i>	South Australian Blue Gum	KS
EUSO	<i>Eucalyptus socialis</i>	Beaked Red Mallee	KS
HAMU	<i>Hakea muelleriana</i>	Desert Hakea	SB
KUPO	<i>Kunzea pomifera</i>	Muntries	SD
LECO	<i>Leptospermum coriaceum</i>	Coast Tea-tree	SA
LELA	<i>Lepidosperma laterale</i>	Variable Sword-sedge	VL
MELA	<i>Melaleuca lanceolata</i>	Moonah	SB
MEUN	<i>Melaleuca uncinata</i>	Broombush	S
TRSC	<i>Triodia scariosa</i>	Spinifex	H

Appendix 9. Comparison of foraging data for *Pachycephala inornata* at Gluepot.

A - initial observations only, B - up to five observations, C - all observations; see text for details.

m - male, f - female.

method	A m n	A m %	B m n	B m %	C m n	C m %	A f n	A f %	B f n	B f %	C f n	C f %
No. prey attacks	50		78		85		27		45		45	
Height intervals (m)												
0	3	6.0	6	7.7	6.0	7.1	3	11.1	8	17.8	8	17.8
0-0.5	1	2.0	2	2.6	2	2.4	2	7.4	3	6.7	3	6.7
0.5-1	0	0.0	6	7.7	6	7.1	2	7.4	3	6.7	3	6.7
1-1.5	5	10.0	7	9.0	14	16.5	3	11.1	3	6.7	3	6.7
1.5-2	3	6.0	4	5.1	4	4.7	2	7.4	3	6.7	3	6.7
2-2.5	2	4.0	4	5.1	4	4.7	1	3.7	1	2.2	1	2.2
2.5-3	3	6.0	5	6.4	5	5.9	1	3.7	1	2.2	1	2.2
3-3.5	4	8.0	4	5.1	4	4.7	2	7.4	2	4.4	2	4.4
3.5-4	7	14.0	8	10.3	8	9.4	2	7.4	3	6.7	3	6.7
4-4.5	7	14.0	9	11.5	9	10.6	0	0.0	1	2.2	1	2.2
4.5-5	6	12.0	6	7.7	6	7.1	5	18.5	9	20.0	9	20.0
5-5.5	3	6.0	5	6.4	5	5.9	3	11.1	6	13.3	6	13.3
5.5-6	3	6.0	4	5.1	4	4.7	0	0.0	0	0.0	0	0.0
≥6 m	3	6.0	8	10.3	8	9.4	1	3.7	2	4.4	2	4.4
Foraging methods												
glean	17	34.0	30	38.5	33	38.8	12	44.4	22	48.9	22	48.9
snatch	27	54.0	36	46.2	37	43.5	13	48.1	19	42.2	19	42.2
pounce	4	8.0	7	9.0	10	11.8	1	3.7	2	4.4	2	4.4
hawk	2	4.0	5	6.4	5	5.9	1	3.7	2	4.4	2	4.4
hover	0	0.0	0	0	0	0.0	0	0.0	0	0.0	0	0.0
Foraging substrates												
ground	3	6.0	6	7.7	6	7.1	3	11.1	9	20.0	9	20.0
bark	14	28.0	21	26.9	21	24.7	11	40.7	16	35.6	16	35.6
leaves	31	62.0	46	59.0	51	60.0	12	44.4	18	40.0	18	40.0
flowers	0	0.0	0	0.0	2	2.4	0	0.0	0	0.0	0	0.0
air	2	4.0	5	6.4	5	5.9	1	3.7	2	4.4	2	4.4
Plant species	45		67		74		23		37		37	
<i>Acacia colletioides</i>	1	2.2	1	1.5	1	1.4	2	8.7	2	5.4	2	5.4
<i>Acacia sclerophylla</i>	4	8.9	11	16.4	18	24.3	3	13.0	3	8.1	3	8.1
<i>Austrostipa nitida</i>	0	0.0	0	0.0	0	0.0	0	0.0	1	2.7	1	2.7
<i>Casuarina pauper</i>	1	2.2	9	13.4	9	12.2	0	0.0	5	13.5	5	13.5
<i>Eucalyptus dumosa</i>	3	6.7	3	4.5	3	4.1	1	4.3	1	2.7	1	2.7
<i>Eucalyptus gracilis</i>	7	15.6	10	14.9	10	13.5	4	17.4	6	16.2	6	16.2
<i>Eucalyptus leptophylla</i>	2	4.4	3	4.5	3	4.1	1	4.3	1	2.7	1	2.7
<i>Eucalyptus oleosa</i>	12	26.7	18	26.9	18	24.3	6	26.1	12	32.4	12	32.4
<i>Eucalyptus socialis</i>	4	8.9	4	6.0	4	5.4	3	13.0	3	8.1	3	8.1
<i>Exocarpos aphyllus</i>	5	11.1	1	1.5	1	1.4	2	8.7	2	5.4	2	5.4
<i>Grevillea huegelii</i>	1	2.2	1	1.5	1	1.4	0	0.0	0	0.0	0	0.0
<i>Myoporum platycarpum</i>	3	6.7	3	4.5	3	4.1	0	0.0	0	0.0	0	0.0
<i>Senna</i> ft. <i>coriacea</i>	0	0.0	1	1.5	1	1.4	0	0.0	0	0.0	0	0.0
<i>Senna</i> ft. <i>nemophila</i>	2	4.4	2	3.0	2	2.7	1	4.3	1	2.7	1	2.7

Appendix 10. Comparison of foraging data for *Pachycephala rufogularis* at Ngarkat.

A - initial observations only, B - up to five observations; see text for details.

m - male, f - female.

method	A		B		A		B	
	male n	male %	male n	male %	female n	female %	female n	female %
No. prey attacks	16		32		12		26	
Height intervals (m)								
0	5	31.3	7	21.9	1	8.3	5	19.2
0-0.5	2	12.5	7	21.9	7	58.3	13	50.0
0.5-1	3	18.8	8	25.0	1	8.3	4	15.4
1-1.5	2	12.5	4	12.5	1	8.3	2	7.7
1.5-2	1	6.3	2	6.3	2	16.7	2	7.7
2-2.5	2	12.5	2	6.3	0	0.0	0	0.0
2.5-3	1	6.3	2	6.3	0	0.0	0	0.0
Foraging methods								
glean	10	62.5	13	40.6	10	83.3	20	76.9
snatch	4	25.0	13	40.6	2	16.7	5	19.2
pounce	0	0.0	0	0.0	0	0.0	1	3.8
hawk	2	12.5	4	12.5	0	0.0	0	0.0
hover	0	0.0	2	6.3	0	0.0	0	0.0
Foraging substrates								
ground	5	31.3	8	25.0	2	16.7	7	26.9
bark	3	18.8	7	21.9	2	16.7	4	15.4
leaves	5	31.3	9	28.1	7	58.3	14	53.8
flowers	0	0.0	3	9.4	0	0.0	0	0.0
air	3	18.8	5	15.6	1	8.3	1	3.8
Plant species	8		20		10		20	
<i>Acacia spinescens</i>	0	0.0	3	15.0	0	0.0	0	0.0
<i>Austrostipa</i> spp	0	0.0	0	0.0	0	0.0	1	5.0
<i>Baeckea behrii</i>	1	12.5	2	10.0	2	20.0	6	30.0
<i>Baeckea crassifolia</i>	1	12.5	2	10.0	2	20.0	2	10.0
<i>Brachyloma ericoides</i>	0	0.0	0	0.0	1	10.0	1	5.0
<i>Calytrix tetragona</i>	0	0.0	0	0.0	0	0.0	1	5.0
<i>Eucalyptus incrassata</i>	2	25.0	3	15.0	3	30.0	4	20.0
<i>Eucalyptus leucoxydon</i>	1	12.5	1	5.0	0	0.0	0	0.0
<i>Eucalyptus socialis</i>	2	25.0	4	20.0	0	0.0	0	0.0
<i>Hakea muelleriana</i>	0	0.0	0	0.0	0	0.0	1	5.0
<i>Kunzea pomifera</i>	0	0.0	0	0.0	1	10.0	1	5.0
<i>Leptospermum coriaceum</i>	1	12.5	1	5.0	0	0.0	0	0.0
<i>Lepidosperma laterale</i>	0	0.0	0	0.0	1	10.0	1	5.0
<i>Melaleuca lanceolata</i>	0	0.0	3	15.0	0	0.0	0	0.0
<i>Melaleuca uncinata</i>	0	0.0	0	0.0	0	0.0	2	10.0
<i>Triodia scariosa</i>	0	0.0	1	5.0	0	0.0	0	0.0

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