



FINAL REPORT
AVON RIVER WATERBIRD
SURVEY 2015-2017

The Toodyay Naturalists' Club Inc.

AVON RIVER WATER BIRD SURVEY 2015 – 2017

The Toodyay Naturalists' Club Inc. acknowledges the Ballardong People of the Noongar Nation as the traditional owners and spiritual custodians of *Bilya Goguljar* – also known as the Avon River.

[Cover photo: Over a quarter of all species recorded was the Grey Teal. Photo: Wayne Clarke, 2017]

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[Above: A Pacific Black Duck in Toodyay townsite. Almost 20% of birds surveyed were Pacific Black Ducks. Photo: Wayne Clarke]



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FINAL REPORT TO WHEATBELT NATURAL RESOURCE MANAGEMENT REGIONAL LANDCARE FUNDING - COMMUNITY GRANT SEPTEMBER 2017

In April 2015, the Toodyay Naturalists' Club Inc. (TNC) applied for funding through Wheatbelt Natural Resource Management (Wheatbelt NRM) for a Community Group Support Grant to conduct an 'Avon River Waterbird Survey'. The aim of the project was to replicate the survey undertaken by the TNC from 1995 to 1997, and to see what changes have taken place over the ensuing twenty year period. The intention was to survey both pre and post Avon Descent.

The 1995-97 survey was requested (and supported) by the Avon River Management Authority to ascertain the impact the Avon Descent was having on the bird population.

As advised in the *Interim Report 2016*, significant changes have taken place since the 1995-97 survey. These include (but are not limited to):

- the demise of a locally based agency to manage the Avon River;
- cessation of previously agreed joint inspections between the Avon Descent organisers, a locally based agency and community members pre and post event;
- loss of access to areas previously surveyed;
- marked increases in sedimentation changing the dynamics of the river;
- losses in riparian vegetation (including through fire);
- further fragmentation of adjoining properties by subdivision; and
- significant changes in climate, with marked difference in the river flows/peak flow timing

These changes have had considerable impact on the number of birds using the river, particularly at the time of the Avon Descent. Peak flow has been at a later time with the Avon Descent almost cancelled a number of times in recent years (through lack of water).

Survey comparisons

Following each annual survey comparisons were made with previous years. In 2016 the total bird count was down 62% on 2015, rising slightly in 2017 (not quite 20%). Good rains prior to the event would have provided adjacent waterways to which the birds could escape.

The number of water birds recorded in 2015-17 was 2,125 (27 species); in comparison, the total recorded in 1995-97 was 7,077 (29 species); this equates to a drop in numbers of almost 70%.

The top 15 birds recorded in 2016 amounted to 97% of all species. This compares favourably with 1995-1997, where 97.4% of all species comprised the same birds.

Factors influencing changes

As already mentioned, a number of factors have influenced these changes. Specific factors are:

- Long Pool is now inaccessible (168 birds had been counted there in the previous survey);
- Millard's Pool, the Toodyay Town, Weatherall Reserve and Cobbler's Pool all have had significant sediment infill;
- development close to the river; and
- less experienced members available to undertake surveys, and to train new teams

Species records

Included with this report is an Excel spreadsheet with the full waterbird counts recorded. Summary tables are also included.

Table 1 represents the top fifteen waterbird species recorded during the surveys.

Table 2 provides a comparison of all bird species recorded (both waterbird and land species) from 1995-97 and 2015-17. Land birds were recorded in the adjacent riparian vegetation.

Website

It is proposed to make this report available on the TNC website.

Conclusion

The Avon River Waterbird Survey has presented the TNC with a snap-shot of the state of the Avon River both pre and post Avon Descent over a three-year period. It has provided the basis for a comparison of changes over a twenty-year period during which significant physical changes have taken place.

Although the number of club members available to undertake surveys has been disappointing it has been a worthwhile exercise, and the data gathered has added valuable records to the TNC database.

It has become evident that over the two surveys the top three waterbird species remain unchanged (*Grey Teal, Pacific Black Duck and Eurasian Coot*), with the *Grey Teal* firmly cementing its place as the most prolific. Two birds missing from the more recent survey are the *Blue-billed Duck* and the *† Ibis*; the *Australian Pelican* is an addition to the first surveys.

There are a number of unbudgeted costs involved with this project, the most significant being the cost of fuel when travelling to sites such as Cobbler's Pool. The TNC is grateful to those members who have undertaken these surveys on behalf of the club.

The members of the TNC wish to thank Wheatbelt NRM for providing the funding to undertake this survey over the past three years.

Wayne Clarke
(for the Toodyay Naturalists' Club Inc.)

TABLE 1

Of the fifteen bird species in the above table there were only two occasions where a species was not counted in each year (Dusky Moorhen in 2015 and Great Egret in 2017).

TOP FIFTEEN SPECIES – PERCENTAGE OF TOTAL														
NO.	NAME	1995-1997					2015-2017					COMBINED		
		1995	1996	1997	2015	2016	2017	%	PLACE					
0211	Grey Teal	28.31	21.42	15.06	35.92	42.73	28.08	28.59	1					
0208	Pacific Black Duck	19.42	23.81	16.38	14.30	12.75	19.22	17.65	2					
0059	Eurasian Coot	16.98	28.23	29.87	11.41	8.80	9.31	17.43	3					
0202	Maned Duck	3.49	3.63	3.29	2.22	11.31	4.50	4.74	4					
0207	Australian Shelduck	7.97	4.22	1.61	3.44	5.57	4.50	4.55	5					
0061	Australasian Grebe	3.31	3.88	7.77	4.32	1.26	5.55	4.35	6					
0097	Little Black Cormorant	3.43	2.34	7.00	7.20	2.87	0.75	3.93	7					
0215	Hardhead	3.20	0.55	3.20	13.19	0.35	1.35	3.64	8					
0188	White-faced Heron	2.21	1.29	1.02	1.66	2.51	10.51	3.40	9					
0100	Little Pied Cormorant	5.47	2.53	4.27	0.89	2.51	3.00	3.11	10					
0062	Hoary-headed Grebe	0.05	0.59	3.79	1.55	1.08	2.70	2.25	11					
0056	Dusky Moorhen	3.31	2.19	0.66	-	0.90	2.55	2.04	12					
0144	Black-fronted Dotterel	1.16	0.89	2.45	0.44	0.72	2.55	1.37	13					
0182	Yellow-billed Spoonbill	0.12	0.09	0.51	0.55	3.77	0.75	0.97	14					
0187	Great Egret	0.58	0.35	0.30	0.22	1.26	-	0.45	15					
Percentage of total species recorded: ➔		97.4% of all species					97% of all species					97.20%		

Table 2

1995-1997	2015-2017	Species	Status	1995-1997	2015-2017	Species	Status
GREBES				SWALLOWS, MARTINS			
Y	Y	Hoary-headed Grebe	U	Y	Y	Welcome Swallow	C
YB	YB	Australasian Grebe	C	Y	Y	Tree Martin	V
PELICANS, CORMORANTS				CUCKOO-SHRIKES, TRILLERS			
	Y	Pelican	U	Y	Y	Black-faced Cuckoo-shrike	U
YB	YB	Little Pied Cormorant	C		Y	White Winged Triller	R
YB	YB	Little Black Cormorant		ROBINS, WHISTLERS, SHRIKE-THRUSHES			
HERONS, IBIS				Y	Y	Scarlet Robin	U
Y	Y	White-faced Heron	C	Y	Y	Red-capped Robin	U
Y	Y	Great Egret	U			Golden Whistler	R
Y	Y	Rufous Night Heron	U	Y	Y	Rufous Whistler	C
Y		Sacred Ibis	U	Y	Y	Grey Shrike-thrush	C
Y	Y	Straw-necked Ibis	U	FLYCATCHERS, FANTAILS			
Y	Y	Yellow-billed Spoonbill	C	Y	Y	Grey Fantail	V
DUCKS, GEESE				YB	Y	Willie Wagtail	C
YB	YB	Mountain Duck (Australian Shelduck)	C				
YB	Y	Pacific Black Duck	C	BABBLERS			
YB	YB	Grey Teal	C	Y		White-browed Babbler	U
Y	Y	Australian Shoveler	U	FAIRY-WRENS, SCRUBWRENS			
Y	Y	Pink-eared Duck	U	Y	Y	Splendid Fairy-wren	C
Y	Y	Hardhead	U	THORNBILLS AND ALLIES			
Y	YB	Wood Duck (Maned Duck)	C	Y	Y	Weebill	U
Y		Blue-billed Duck	R	Y	Y	Western Gerygone	C
	Y	Musk Duck	U	Y		Inland Thornbill	U
HAWKS, EAGLES, FALCONS					Y	Western Thornbill	U
Y	Y	Brown Goshawk	C	YB		Yellow-rumped Thornbill	C
Y	Y	Wedge-tailed Eagle	U	HONEYEATERS, CHATS, MISTLETOEBIRD			
Y		Australian Hobby	U	Y	Y	Red Wattlebird	C
	Y	Nankeen Kestrel	U	YB	Y	Singing Honeyeater	C
	Y	Black-shouldered Kite	C	YB	Y	Brown Honeyeater	C
CRAKES, RAILS				Y		New Holland Honeyeater	U
YB		Dusky Moorhen	C		Y	Mistletoebird	C
Y	Y	Purple Swamphen	U				
YB	YB	Eurasian Coot	C	SILVEREYES			
WADERS				YB	Y	Silvereye	V
Y	Y	Black-fronted Plover	R	MAGPIE-LARK			
	Y	Black-winged Stilt	C		Y	Australian Magpie-Lark (Mudlark)	C
Y	Y	Common Sandpiper	U	WOODSWALLOWS			
PIGEONS, DOVES				Y		Black-faced Woodswallow	R
Y		Feral Pigeon	U	MAGPIES, CURRAWONGS			
	Y	Common Bronzewing	U	Y	Y	Grey Butcherbird	C
	Y	Crested Pigeon	U	Y	Y	Pied Butcherbird	U
COCKATOOS, PARROTS				YB	Y	Australian Magpie	C
	Y	Carnaby's Black Cockatoo	U	RAVENS, CROWS			
Y	Y	Galah	C	Y	Y	Australian Raven	C
Y	Y	Western Long-billed Corella	C	ADDITIONAL SPECIES			
	Y	Red-capped Parrot	U		Y	Striated Pardelote	C
Y	Y	Port Lincoln Ringneck	C				
CUCKOOS							
Y	Y	Pallid Cuckoo	U				
Y	Y	Fan-tailed Cuckoo	C				
Y	Y	Horsfield's Bronze-Cuckoo	U				
Y	Y	Shining Bronze-Cuckoo	C				
KINGFISHERS							
Y	Y	Laughing Kookaburra	C				
	Y	Sacred Kingfisher	C				
PIPITS							
Y		Richard's Pipit	R				

KEY
Sighting Y = Yes **Breeding** YB
Status:
C = Common U = Uncommon
V = Very Common R = Rare

2015

Date and place of observations.	Katrine Pool and Glen Avon Pool									
	25/07/2015	12/08/2015	10/05/2015	16/08/2015	24/08/2015	26/08/2015	7/09/2015	7/09/2015		
Waterbird Species Recorded:- X = Noted in Dams only * = Breeding observed										
Hoary-headed Grebe										
Australasian Grebe										
Australian Pelican										
Little Pied Cormorant										
Little Black Cormorant										
White-faced Heron										
Great Egret										
Australian Shelduck*										
Pacific Black Duck										
Grey Teal										
Australian Shoveler										
Hardhead Duck										
Maned Duck										
Musk Duck										
Purple Swamphen										
Eurasian Coot*										
Black-fronted Dotterel										
Black-winged Stilt										
Common Sandpiper										
Yellow-billed Spoonbill										
Full Total each locality	7	117	19	96	0	84	29	0	24	162
Total of Bird Numbers	124	115	84	29	0	29	186			

2015

Date and place of observations.	Millard and Red Bank Pools										
	25/07/2015		12/08/2015		16/08/2015		2/09/2015		23/09/2015		
	Avon Descent	practice w/end	Millard Pool	Red Bank Pool	Lots of foam at	Red Bank Pool	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool	Millard Pool
Waterbird Species Recorded:- * = Breeding observed											
Hoary-headed Grebe			1								
Australasian Grebe	3	11	4	2	1	2		2	1		
Australian Pelican								1			
Little Pied Cormorant											
Little Black Cormorant						14		2	6	7	
White-faced Heron				1	1	1		1	2	2	
Great Egret						1					
Australian Shelduck			4		1			2	1	2	
Pacific Black Duck	1		2		4		4	2	4	4	
Grey Teal	1	4	4	2	16	7	13		16	15	
Australian Shoveler									1		
Hardhead Duck					1		4	2	4	5	
Maned Duck				2					1		
Musk Duck											
Purple Swamphen									5		
Eurasian Coot*							7		52		
Black-fronted Dotterel		4						2	1		
Black-winged Stilt											
Common Sandpiper											
Yellow-billed Spoonbill						1				2	
Full Total each locality	5	19	15	7	24	26	28	14	94	37	
Total of Bird Numbers	24		22		50		42		131		

2015

Date and place of observations.	Toodyay Town River Only					Cobbler and Weatherall Pools					
	25/07/2015	12/08/2015	16/08/2015	2/09/2015	23/09/2015	Avon Descent practice w/end	26/07/2015	12/08/2015	16/08/2015	2/09/2015	30/09/2015
	Avon Descent practice w/end					Cobbler Pool	Weatherall Pool	Cobbler Pool	Weatherall Pool	Cobbler Pool	Weatherall Pool
Waterbird Species Recorded:- X = Noted in Dams only * = Breeding observed						All counts made from Connor Bridge to Old Railway Bridge (at the western end of Duidgee Park) Open Channel, small pools. In winter, there is a					
Hoary-headed Grebe											
Australasian Grebe											
Australian Pelican						1					
Little Pied Cormorant											1
Little Black Cormorant							1				9
White-faced Heron				1	1						
Great Egret											
Australian Shelduck*								1	1	2	
Pacific Black Duck		1	2	12	7				5		3*
Grey Teal			2	6	9			2	10		4
Australian Shoveler											3
Hardhead Duck										2	
Maned Duck									1		
Musk Duck				2							
Purple Swamphen											
Eurasian Coot*											
Black-fronted Dotterel											
Black-winged Stilt				2							
Common Sandpiper	1										
Yellow-billed Spoonbill	1										
Full Total each locality	2	1	4	23	17	0	1	4	16	1	2
Total of Bird Numbers	2	1	4	23	17	1	1	4	17	6	20

2015 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
EMUS, GREBES				
		0001	Emu	
		0060	Great Crested Grebe	Rare
	YES	0062	Hoary-headed Grebe	Uncommon
	YES	0061	Australasian Grebe	Common
PELICANS, CORMORANTS				
	YES	0106	Pelican	Uncommon
		0101	Darter	Uncommon
		0098	Black-faced Shag	
		0099	Pied Cormorant	Very Rare
	YES	0100	Little Pied Cormorant	Common
		0096	Great Cormorant	Uncommon
	YES	0097	Little Black Cormorant	Common
HERONS, IBIS				
		0189	Pacific Heron	Uncommon
	YES	0188	White-faced Heron	Common
		0977	Cattle Egret	Very Rare
		0187	Great Egret	Uncommon
		0185	Little Egret	Very Rare
		0192	Rufous Night Heron	Uncommon
		0179	Sacred Ibis	Uncommon
		0180	Straw-necked Ibis	Uncommon
		0181	Royal Spoonbill	Rare
	YES	0182	Yellow-billed Spoonbill	Common
DUCKS, GEESE				
		0203	Black Swan	Uncommon
YES	YES	0207	Mountain Duck (Australian Shelduck)	Common
	YES	0208	Pacific Black Duck	Very Common
	YES	0211	Grey Teal	Very Common
		0210	Chestnut Teal	Rare
	YES	0212	Australian Shoveler	Uncommon
		0213	Pink-eared Duck	Uncommon
	YES	0215	Hardhead	Uncommon
	YES	0202	Wood Duck (Maned Duck)	Common
		0216	Blue-billed Duck	Rare
	YES	0217	Musk Duck	Uncommon
HAWKS, EAGLES, FALCONS				
		0232	Black-shouldered Kite	Uncommon
		0228	Whistling Kite	Rare
	YES	0221	Brown Goshawk	Common

2015 CHECKLIST					
Breeding	Identified	No.	SPECIES	STATUS	
		0222	Collared Sparrowhawk	Uncommon	
		0224	Wedge-tailed Eagle	Uncommon	
		0225	Little Eagle	Rare	
		0237	Peregrine Falcon	Uncommon	
		0235	Australian Hobby	Uncommon	
	YES		Nankeen Kestrel		
		QUAIL, BUTTON-QUAIL			
		0010	Brown Quail	Rare	
		CRAKES, RAILS			
		0046	Buff-banded Rail	Rare	
		0050	Baillon's Crake	Rare	
		0049	Australian Crake	Rare	
		0055	Black-tailed Native Hen	Uncommon	
		0056	Dusky Moorhen	Common	
	YES	0058	Purple Swamphen	Rare	
	YES	0059	Eurasian Coot	Common	
		WADERS			
		0132	Red-kneed Dotterel	Rare	
	YES	0144	Black-fronted Plover	Rare	
		0143	Red-capped Plover	Rare	
	YES	0146	Black-winged Stilt	Common	
		0148	Red-necked Avocet	Rare	
	YES	0157	Common Sandpiper	Uncommon	
		0158	Greenshank	Rare	
		SKUAS, GULLS, TERNS			
		0125	Silver Gull	Rare	
		0110	Whiskered Tern	Very Rare	
		0111	Gull-billed Tern	Very Rare	
		PIGEONS, DOVES			
		0957	Feral Pigeon	Uncommon	
		0988	Laughing Turtle-dove	Uncommon	
		0031	Diamond Dove	Very Rare	
	YES	0034	Common Bronzewing	Uncommon	
	YES	0043	Crested Pigeon	Uncommon	
		COCKATOOS, PARROTS			
	YES	1266	Carnaby's Black Cockatoo	Uncommon	
	YES	0273	Galah	Common	
	YES	0272	Western Long-billed Corella	Common	
	YES	0290	Red-capped Parrot	Uncommon	
		0289	Western Rosella	Rare	

2015 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
	YES	0294	Port Lincoln Ringneck	Common
			CUCKOOS	
	YES	0337	Pallid Cuckoo	Uncommon
	YES	0338	Fan-tailed Cuckoo	Common
		0342	Horsfield's Bronze-Cuckoo	Uncommon
	YES	0344	Shining Bronze-Cuckoo	Common
			OWLS, FROGMOUTHS	
		0242	Southern Boobook	Uncommon
		0250	Barn Owl	Uncommon
			KINGFISHERS	
	YES	0322	Laughing Kookaburra	Common
	YES	0326	Sacred Kingfisher	Common
		0329	Rainbow Bee-eater	Common
			BUSHLARK, PIPIT	
		0647	Richard's Pipit	Rare
			SWALLOWS, MARTINS	
		0357	Welcome Swallow	Common
	YES	0359	Tree Martin	Very Common
			CUCKOO-SHRIKES, TRILLERS	
	YES	0424	Black-faced Cuckoo-shrike	Uncommon
		0430	White-winged Triller	Rare
			ROBINS, WHISTLERS, SHRIKE-THRUSHES	
	YES	0380	Scarlet Robin	Uncommon
	YES	0381	Red-capped Robin	Uncommon
		0398	Golden Whistler	Rare
	YES	0401	Rufous Whistler	Common
	YES	0408	Grey Shrike-thrush	Common
			FLYCATCHERS, FANTAILS	
		0369	Restless Flycatcher	Rare
	YES	0361	Grey Fantail	Very Common
	YES	0364	Willie Wagtail	Common
			BABBLERS	
		0445	White-browed Babbler	Uncommon
			OLD WORLD WARBLERS	
		0524	Clamorous Reed-warbler	Rare
			FAIRY-WRENS, SCRUBWRENS	
	YES	0532	Splendid Fairy-wren	Common
			THORNBILLS AND ALLIES	
	YES	0465	Weebill	Uncommon

2015 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
	YES	0463	Western Gerygone	Common
		0476	Inland Thornbill	Uncommon
		0481	Chestnut-rumped Thornbill	Rare
	YES	0472	Western Thornbill	Uncommon
		0486	Yellow-rumped Thornbill	Common
		SITTELLA, TREECREEPERS		
		0556	Rufous Treecreeper	Rare
		HONEYEATERS, CHATS		
	YES	0638	Red Wattlebird	Common
		0637	Little (Western) Wattlebird	Uncommon
		0640	Spiny-cheeked Honeyeater	Rare
	YES	0608	Singing Honeyeater	Common
		0622	Yellow-plumed Honeyeater	Rare
		0583	Brown-headed Honeyeater	Uncommon
	YES	0597	Brown Honeyeater	Very Common
		0631	New Holland Honeyeater	Uncommon
		MISTLETOEBIRD		
	YES	0564	Mistletoebird	Uncommon
		PARDELOTES		
	YES	0976	Striated Pardelote	Common
		SILVEREYES		
	YES	0574	Silvereye	Very Common
		MAGPIE-LARK		
	YES	0415	Australian Magpie-lark (Mudlark)	Common
		WOODSWALLOWS		
		0546	Black-faced Woodswallow	Rare
		0547	Dusky Woodswallow	Uncommon
		MAGPIES, CURRAWONGS		
	YES	0702	Grey Butcherbird	Common
	YES	0700	Pied Butcherbird	Uncommon
	YES	0705	Australian Magpie	Common
		RAVENS, CROWS		
	YES	0930	Australian Raven	Common

2016

Date and place of observations.	Katrine Pool and top end of Glen Avon Pool (from Katrine Road bridge)			
	1/08/2016	11/08/2016	30/08/2016	9/09/2016
Waterbird Species Recorded:- X = Noted in Dams only * = Breeding observed	River Pool	River Pool	River Pool	River Pool
Hoary-headed Grebe			2	
Australasian Grebe				
Australian Pelican				
Little Pied Cormorant*	2	1		2
Little Black Cormorant*				6
White-faced Heron			1	
Great Egret				
Rufous Night Heron				
Straw-necked Ibis				
Australian Shelduck*	1			2
Pacific Black Duck*	4		15	2
Grey Teal*	2	5	13	34
Pink-eared Duck			2	2
Hardhead Duck				2
Maned Duck			6	3
Dusky Moorhen				
Eurasian Coot*			4	9
Black-fronted Dotterel				
White Ibis				
Yellow-billed Spoonbill	1		3	
Full Total each locality	10	6	46	62
Total of Bird Numbers	16		108	

2016

Date and place of observations.	Millard and Red Bank Pools											
	28/07/2016		1/08/2016		11/08/2016		12/08/2016		30/08/2016		9/09/2016	
	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool
Waterbird Species Recorded:- X = Noted in Dams only * = Breeding observed												
Hoary-headed Grebe			1				1				2	
Australasian Grebe	2								3			
Australian Pelican									1			
Little Pied Cormorant*			1			1	1	1				
Little Black Cormorant*											2	1
White-faced Heron	1	2		2			3	1				1
Great Egret			1									
Rufous Night Heron												
Straw-necked Ibis												
Australian Shelduck*	3			1	4		5		8	2		
Pacific Black Duck*		4	2	2			2	2	2	1	7	6
Grey Teal*	5	6	15	11	8		13	5	42	2	41	5
Pink-eared Duck												
Hardhead Duck												
Maned Duck	4				3				27		14	
Dusky Moorhen							3	1				
Eurasian Coot*	4				3		1		16		9	
Black-fronted Dotterel					2							
White Ibis												
Yellow-billed Spoonbill		3	1	6		1						
Full Total each locality	19	15	21	22	20	2	29	10	99	5	75	13
Total of Bird Numbers	34		43		22		39		104		88	

2016

Date and place of observations.	Toodyay Town River Only							Cobbler and Weatherall Pools											
	1/08/2016	8/08/2016	12/08/2016	12/08/2016	30/08/2016	9/09/2016		1/08/2016		11/08/2016		13/08/2016		12/08/2016		30/08/2016		9/09/2016	
Waterbird Species Recorded:- X = Noted in Dams only * = Breeding observed	All counts made from Connor Bridge to Old Railway Bridge (at the western end of Duidgee Park) Open Channel, small pools. In winter, there is a strong river flow through these							Cobbler Pool	Weatherall Pool	Cobbler Pool	Weatherall Pool	Cobbler Pool	Weatherall Pool	Cobbler Pool	Weatherall Pool	Cobbler Pool	Weatherall Pool	Cobbler Pool	Weatherall Pool
Hoary-headed Grebe																			
Australasian Grebe												1		1					
Australian Pelican																			
Little Pied Cormorant*								1		2		1						1	
Little Black Cormorant*						2				4				1					
White-faced Heron			1		1													1	
Great Egret					1			1		1		1		1		1		1	
Rufous Night Heron										1									
Straw-necked Ibis									2										
Australian Shelduck*				2	1				2										
Pacific Black Duck*	1	1	1	1	2	5		2						3				6	
Grey Teal*	5		3	4	2				2	4		5	2	2				2	
Pink-eared Duck																			
Hardhead Duck																			
Maned Duck	4				2														
Dusky Moorhen										1									
Eurasian Coot*										2	1								
Black-fronted Dotterel																		2	
White Ibis									1										
Yellow-billed Spoonbill	1	1				1			1					1				1	
Full Total each locality	11	2	5	7	9	8	0	4	8	15	1	8	2	9	0	14	0		
Total of Bird Numbers	11	2	5	7	9	8	0	12		16		10		9		14			

2016 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
			EMUS, GREBES	
		0001	Emu	
		0060	Great Crested Grebe	Rare
	YES	0062	Hoary-headed Grebe	Uncommon
	YES	0061	Australasian Grebe	Common
			PELICANS, CORMORANTS	
	YES	0106	Pelican	Uncommon
		0101	Darter	Uncommon
		0098	Black-faced Shag	
		0099	Pied Cormorant	Very Rare
YES	YES	0100	Little Pied Cormorant	Common
		0096	Great Cormorant	Uncommon
	YES	0097	Little Black Cormorant	Common
			HERONS, IBIS	
		0189	Pacific Heron	Uncommon
	YES	0188	White-faced Heron	Common
		0977	Cattle Egret	Very Rare
	YES	0187	Great Egret	Uncommon
		0185	Little Egret	Very Rare
	YES	0192	Rufous Night Heron	Uncommon
		0179	Sacred Ibis	Uncommon
	YES	0180	Straw-necked Ibis	Uncommon
		0181	Royal Spoonbill	Rare
	YES	0182	Yellow-billed Spoonbill	Common
			DUCKS, GEESE	
		0203	Black Swan	Uncommon
YES	YES	0207	Mountain Duck (Australian Shelduck)	Common
YES	YES	0208	Pacific Black Duck	Very Common
YES	YES	0211	Grey Teal	Very Common
		0210	Chestnut Teal	Rare
	YES	0212	Australian Shoveler	Uncommon
	YES	0213	Pink-eared Duck	Uncommon
	YES	0215	Hardhead	Uncommon
	YES	0202	Wood Duck (Maned Duck)	Common
		0216	Blue-billed Duck	Rare
		0217	Musk Duck	Uncommon
			HAWKS, EAGLES, FALCONS	
	YES	0232	Black-shouldered Kite	Uncommon
		0228	Whistling Kite	Rare
		0221	Brown Goshawk	Common

2016 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
		0222	Collared Sparrowhawk	Uncommon
	YES	0224	Wedge-tailed Eagle	Uncommon
		0225	Little Eagle	Rare
		0237	Peregrine Falcon	Uncommon
		0235	Australian Hobby	Uncommon
QUAIL, BUTTON-QUAIL				
		0010	Brown Quail	Rare
CRAKES, RAILS				
		0046	Buff-banded Rail	Rare
		0050	Baillon's Crake	Rare
		0049	Australian Crake	Rare
		0055	Black-tailed Native Hen	Uncommon
	YES	0056	Dusky Moorhen	Common
		0058	Purple Swamphen	Rare
	YES	0059	Eurasian Coot	Common
WADERS				
		0132	Red-kneed Dotterel	Rare
	YES	0144	Black-fronted Plover	Rare
		0143	Red-capped Plover	Rare
		0146	Black-winged Stilt	Common
		0148	Red-necked Avocet	Rare
		0157	Common Sandpiper	Uncommon
		0158	Greenshank	Rare
SKUAS, GULLS, TERNS				
		0125	Silver Gull	Rare
		0110	Whiskered Tern	Very Rare
		0111	Gull-billed Tern	Very Rare
PIGEONS, DOVES				
		0957	Feral Pigeon	Uncommon
		0988	Laughing Turtle-dove	Uncommon
		0031	Diamond Dove	Very Rare
	YES	0034	Common Bronzewing	Uncommon
	YES	0043	Crested Pigeon	Uncommon
COCKATOOS, PARROTS				
	YES	1266	Carnaby's Black Cockatoo	Uncommon
	YES	0273	Galah	Common
		0272	Western Long-billed Corella	Common
	YES	0290	Red-capped Parrot	Uncommon
		0289	Western Rosella	Rare
	YES	0294	Port Lincoln Ringneck	Common

2016 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
			CUCKOOS	
	YES	0337	Pallid Cuckoo	Uncommon
	YES	0338	Fan-tailed Cuckoo	Common
	YES	0342	Horsfield's Bronze-Cuckoo	Uncommon
	YES	0344	Shining Bronze-Cuckoo	Common
			OWLS, FROGMOUTHS	
		0242	Southern Boobook	Uncommon
		0250	Barn Owl	Uncommon
			KINGFISHERS	
	YES	0322	Laughing Kookaburra	Common
		0326	Sacred Kingfisher	Common
		0329	Rainbow Bee-eater	Common
			BUSHLARK, PIPIT	
		0647	Richard's Pipit	Rare
			FINCHES, FIRETAILS	
	YES	0653	Zebra Finch	Uncommon
			SWALLOWS, MARTINS	
	YES	0357	Welcome Swallow	Common
	YES	0359	Tree Martin	Very Common
			CUCKOO-SHRIKES, TRILLERS	
	YES	0424	Black-faced Cuckoo-shrike	Uncommon
		0430	White-winged Triller	Rare
			ROBINS, WHISTLERS, SHRIKE-THRUSHES	
		0380	Scarlet Robin	Uncommon
		0381	Red-capped Robin	Uncommon
		0398	Golden Whistler	Rare
	YES	0401	Rufous Whistler	Common
	YES	0408	Grey Shrike-thrush	Common
			FLYCATCHERS, FANTAILS	
		0369	Restless Flycatcher	Rare
	YES	0361	Grey Fantail	Very Common
	YES	0364	Willie Wagtail	Common
			BABLERS	
		0445	White-browed Babbler	Uncommon
			OLD WORLD WARBLERS	
		0524	Clamorous Reed-warbler	Rare
			FAIRY-WRENS, SCRUBWRENS	
	YES	0532	Splendid Fairy-wren	Common
			THORNBILLS AND ALLIES	

2016 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
	YES	0465	Weebill	Uncommon
	YES	0463	Western Gerygone	Common
		0476	Inland Thornbill	Uncommon
	YES	0481	Chestnut-rumped Thornbill	Rare
	YES	0472	Western Thornbill	Uncommon
	YES	0486	Yellow-rumped Thornbill	Common
		SITTELLA, TREECREEPERS		
		0556	Rufous Treecreeper	Rare
		HONEYEATERS, CHATS		
	YES	0638	Red Wattlebird	Common
		0637	Little (Western) Wattlebird	Uncommon
		0640	Spiny-cheeked Honeyeater	Rare
	YES	0608	Singing Honeyeater	Common
		0622	Yellow-plumed Honeyeater	Rare
	YES	0583	Brown-headed Honeyeater	Uncommon
	YES	0597	Brown Honeyeater	Very Common
		0631	New Holland Honeyeater	Uncommon
		MISTLETOEBIRD		
		0564	Mistletoebird	Uncommon
		PARDELOTES		
	YES	0976	Striated Pardelote	Common
		SILVEREYES		
	YES	0574	Silvereye	Very Common
		MAGPIE-LARK		
	YES	0415	Australian Magpie-lark (Mudlark)	Common
		WOODSWALLOWS		
		0546	Black-faced Woodswallow	Rare
		0547	Dusky Woodswallow	Uncommon
		MAGPIES, CURRAWONGS		
	YES	0702	Grey Butcherbird	Common
	YES	0700	Pied Butcherbird	Uncommon
	YES	0705	Australian Magpie	Common
		RAVENS, CROWS		
	YES	0930	Australian Raven	Common

2017

Date and place of observations.	Katrine/Glen Avon Pool and Dams											
	June 28th		July 18th		July 22nd		July 30th		August 10th		September 2nd	
									Boat Racing			
Waterbird Species Recorded:- X = Noted in Dams only * = Breeding observed (in bold)	Glen Avon Dams & Glen Avon Pool	Katrine Pool	River Pool	Katrine	River Pool	Katrine	River Pool	Katrine	River Pool	Katrine	River Pool	Katrine
Hoary-headed Grebe							3		2		12	
Australasian Grebe	2						6		7		6	2
Little Pied Cormorant*		1							3			1
Little Black Cormorant												
White-faced Heron	7				10		8				1	
Rufous Night Heron												
Straw-necked Ibis												
Australian Shelduck*					6						2	2
Pacific Black Duck	15	9	8		28		22					
Grey Teal*	53	3			19		30		7		2	2
Australian Shoveler					3		2				1	
Hardhead Duck												
Maned Duck*							1					
Dusky Moorhen												
Eurasian Coot	16	3	6			1						9
Black-fronted Dotterel	7						8					
Australian Pelican	4											
White Ibis					1		1					
Yellow-billed Spoonbill									1			
Black-tailed Native Hen												
Muscovy/Domestic Duck												
Full Total each locality	104	16	14	0	67	1	81	0	20	0	24	16
Total of Bird Numbers	120		14		68		81		20		40	

2017

Date and place of observations.	Millard and Red Bank Pools											
	June 29th		July 18th		July 22nd		July 30th		August 10th		September 2nd	
	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool	Millard Pool	Red Bank Pool
Waterbird Species Recorded:- X = Noted in Dams only * = Breeding observed (in bold)												
Hoary-headed Grebe												1
Australasian Grebe							1	2		1		
Little Pied Cormorant*				1		10			1			
Little Black Cormorant												3
White-faced Heron					10	5	8	2				8
Rufous Night Heron									3			
Straw-necked Ibis			3						1			
Australian Shelduck*					6		1		1			4
Pacific Black Duck			1		7			3		4	2	8
Grey Teal*			16		1	2	8	2	19	2	8	6
Australian Shoveler												
Hardhead Duck					9							
Maned Duck*				4		3				5		
Dusky Moorhen			6		3		5		2		1	
Eurasian Coot			1		7		6		1		11	
Black-fronted Dotterel												
Australian Pelican												
White Ibis					2		1				2	
Yellow-billed Spoonbill												
Black-tailed Native Hen							1					
Muscovy/Domestic Duck												
Full Total each locality	0	0	27	5	45	20	31	9	28	12	37	17
Total of Bird Numbers	0		32		65		40		40		54	

2017

Date and place of observations.	Toodyay Town River Only						Cobbler Pool/Weatherall Reserve									
	July 13th	July 18th	July 22nd	July 30th	August 10th	September 2nd	July 18th		July 22nd		July 30th		August 10th		September 2nd	
							Weatherall	Cobbler Pool	Weatherall	Cobbler Pool	Weatherall	Cobbler Pool	Weatherall	Cobbler Pool	Weatherall	Cobbler Pool
Waterbird Species Recorded:- X = Noted in Dams only * = Breeding observed (in bold)	All counts made from the (old)Goomalling Road Bridge to Old Railway Bridge (at the western end of Duidgee Park) Open Channel, small pools. In winter, there is a strong river flow						Weatherall	Cobbler Pool	Weatherall	Cobbler Pool	Weatherall	Cobbler Pool	Weatherall	Cobbler Pool	Weatherall	Cobbler Pool
Hoary-headed Grebe																
Australasian Grebe				1	2			5		2						
Little Pied Cormorant*								1				1				1
Little Black Cormorant								1				1				
White-faced Heron			1	1				1		6		1				1
Rufous Night Heron																
Straw-necked Ibis																
Australian Shelduck*								2				1			2	3
Pacific Black Duck	3	2	6	1					3	4						2
Grey Teal*									2		1				1	3
Australian Shoveler																
Hardhead Duck																
Maned Duck*									4	2	1		10			
Dusky Moorhen																
Eurasian Coot																1
Black-fronted Dotterel															2	
Australian Pelican																
White Ibis																
Yellow-billed Spoonbill	1						3									
Black-tailed Native Hen																
Muscovy/Domestic Duck												1		5		
Full Total each locality	4	2	7	3	2	0	3	10	9	14	3	4	10	5	6	10
Total of Bird Numbers	4	2	7	3	2	0	13		23		7		15		16	

2017 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
			EMUS, GREBES	
		0001	Emu	
		0060	Great Crested Grebe	Rare
	YES	0062	Hoary-headed Grebe	Uncommon
	YES	0061	Australasian Grebe	Common
			PELICANS, CORMORANTS	
	YES	0106	Pelican	Uncommon
		0101	Darter	Uncommon
		0098	Black-faced Shag	
		0099	Pied Cormorant	Very Rare
	YES	0100	Little Pied Cormorant	Common
		0096	Great Cormorant	Uncommon
	YES	0097	Little Black Cormorant	Common
			HERONS, IBIS	
		0189	Pacific Heron	Uncommon
	YES	0188	White-faced Heron	Common
		0977	Cattle Egret	Very Rare
		0187	Great Egret	Uncommon
		0185	Little Egret	Very Rare
		0192	Rufous Night Heron	Uncommon
	YES	0179	Sacred Ibis	Uncommon
	YES	0180	Straw-necked Ibis	Uncommon
		0181	Royal Spoonbill	Rare
	YES	0182	Yellow-billed Spoonbill	Common
			DUCKS, GEESE	
		0203	Black Swan	Uncommon
	YES	0207	Mountain Duck (Australian Shelduck)	Common
	YES	0208	Pacific Black Duck	Very Common
	YES	0211	Grey Teal	Very Common
		0210	Chestnut Teal	Rare
	YES	0212	Australian Shoveler	Uncommon
		0213	Pink-eared Duck	Uncommon
	YES	0215	Hardhead	Uncommon
	YES	0202	Wood Duck (Maned Duck)	Common
		0216	Blue-billed Duck	Rare
		0217	Musk Duck	Uncommon
	YES		Muscovy Duck	Uncommon
			HAWKS, EAGLES, FALCONS	
	YES	0232	Black-shouldered Kite	Uncommon
		0228	Whistling Kite	Rare

2017 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
		0221	Brown Goshawk	Common
	YES	0222	Collared Sparrowhawk	Uncommon
		0224	Wedge-tailed Eagle	Uncommon
		0225	Little Eagle	Rare
		0237	Peregrine Falcon	Uncommon
		0235	Australian Hobby	Uncommon
		QUAIL, BUTTON-QUAIL		
		0010	Brown Quail	Rare
		CRAKES, RAILS		
		0046	Buff-banded Rail	Rare
		0050	Baillon's Crake	Rare
		0049	Australian Crake	Rare
	YES	0055	Black-tailed Native Hen	Uncommon
	YES	0056	Dusky Moorhen	Common
		0058	Purple Swamphen	Rare
	YES	0059	Eurasian Coot	Common
		WADERS		
		0132	Red-kneed Dotterel	Rare
	YES	0144	Black-fronted Plover	Rare
		0143	Red-capped Plover	Rare
		0146	Black-winged Stilt	Common
		0148	Red-necked Avocet	Rare
		0157	Common Sandpiper	Uncommon
		0158	Greenshank	Rare
		SKUAS, GULLS, TERNS		
		0125	Silver Gull	Rare
		0110	Whiskered Tern	Very Rare
		0111	Gull-billed Tern	Very Rare
		PIGEONS, DOVES		
		0957	Feral Pigeon	Uncommon
	YES	0988	Laughing Turtle-dove	Uncommon
		0031	Diamond Dove	Very Rare
		0034	Common Bronzewing	Uncommon
	YES	0043	Crested Pigeon	Uncommon
		COCKATOOS, PARROTS		
	YES	1266	Carnaby's Black Cockatoo	Uncommon
	YES	0273	Galah	Common
	YES	0272	Western Long-billed Corella	Common
	YES	0290	Red-capped Parrot	Uncommon
		0289	Western Rosella	Rare

2017 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
	YES	0294	Port Lincoln Ringneck	Common
			CUCKOOS	
	YES	0337	Pallid Cuckoo	Uncommon
	YES	0338	Fan-tailed Cuckoo	Common
		0342	Horsfield's Bronze-Cuckoo	Uncommon
		0344	Shining Bronze-Cuckoo	Common
			OWLS, FROGMOUTHS	
		0242	Southern Boobook	Uncommon
		0250	Barn Owl	Uncommon
			KINGFISHERS	
		0322	Laughing Kookaburra	Common
		0326	Sacred Kingfisher	Common
		0329	Rainbow Bee-eater	Common
			BUSHLARK, PIPIT	
		0647	Richard's Pipit	Rare
			SWALLOWS, MARTINS	
		0357	Welcome Swallow	Common
	YES	0359	Tree Martin	Very Common
			CUCKOO-SHRIKES, TRILLERS	
	YES	0424	Black-faced Cuckoo-shrike	Uncommon
		0430	White-winged Triller	Rare
			ROBINS, WHISTLERS, SHRIKE-THRUSHES	
	YES	0380	Scarlet Robin	Uncommon
	YES	0381	Red-capped Robin	Uncommon
		0398	Golden Whistler	Rare
	YES	0401	Rufous Whistler	Common
	YES	0408	Grey Shrike-thrush	Common
			FLYCATCHERS, FANTAILS	
		0369	Restless Flycatcher	Rare
	YES	0361	Grey Fantail	Very Common
	YES	0364	Willie Wagtail	Common
			BABLERS	
		0445	White-browed Babbler	Uncommon
			OLD WORLD WARBLERS	
		0524	Clamorous Reed-warbler	Rare
			FAIRY-WRENS, SCRUBWRENS	
	YES	0532	Splendid Fairy-wren	Common
			THORNBILLS AND ALLIES	
	YES	0465	Weebill	Uncommon

2017 CHECKLIST				
Breeding	Identified	No.	SPECIES	STATUS
	YES	0463	Western Gerygone	Common
		0476	Inland Thornbill	Uncommon
		0481	Chestnut-rumped Thornbill	Rare
	YES	0472	Western Thornbill	Uncommon
	YES	0486	Yellow-rumped Thornbill	Common
			SITTELLA, TREECREEPERS	
	YES	0556	Rufous Treecreeper	Rare
	YES		Black-capped Sitella	
			HONEYEATERS, CHATS	
	YES	0638	Red Wattlebird	Common
		0637	Little (Western) Wattlebird	Uncommon
		0640	Spiny-cheeked Honeyeater	Rare
	YES	0608	Singing Honeyeater	Common
		0622	Yellow-plumed Honeyeater	Rare
	YES	0583	Brown-headed Honeyeater	Uncommon
	YES	0597	Brown Honeyeater	Very Common
	YES	0631	New Holland Honeyeater	Uncommon
			MISTLETOEBIRD	
	YES	0564	Mistletoebird	Uncommon
			PARDELOTES	
	YES	0976	Striated Pardelote	Common
			SILVEREYES	
	YES	0574	Silvereye	Very Common
			MAGPIE-LARK	
	YES	0415	Australian Magpie-lark (Mudlark)	Common
			WOODSWALLOWS	
		0546	Black-faced Woodswallow	Rare
		0547	Dusky Woodswallow	Uncommon
			MAGPIES, CURRAWONGS	
		0702	Grey Butcherbird	Common
	YES	0700	Pied Butcherbird	Uncommon
	YES	0705	Australian Magpie	Common
			RAVENS, CROWS	
	YES	0930	Australian Raven	Common

INSTRUCTIONS FOR SURVEYORS

- Keep voices low so as to minimise any disturbance
- If you are unsure of a species, note its features to check with other Club members
- Make a note of the land birds on the reverse side of the survey sheet
- Early morning surveys are preferable
- Write name/s of surveyor/s at right
- Count in batches of five (|||| + |||| + || = 12)

DATE:	LOCATION:	
WATERBIRD NAME	COUNT	LOCATIONS:
Eurasian Coot		1. Cobbler Pool
Loa Little Pied Cormorant		2. Weatherall
Little Black Cormorant		3. Town
Black-fronted Dotterel		4. Redbanks
Blue-billed Duck		5. Millards Pool
Hardhead Duck		6. Glen Avon/Katrine
Maned Duck		
Musk Duck		
Pacific Black Duck		
Pink-eared Duck		
Great Egret		
Domestic Goose		
Hoary-headed Grebe		
Australasian Grebe		
Great Crested Grebe		
White-faced Heron		
Rufous Night Heron		
White Ibis		
Straw-necked Ibis		
Banded Lapwing		
Dusky Moorhen		
Common Sandpiper		
Australian Shelduck		
Australian Shoveler		
Yellow-billed Spoonbill		
Black-winged Stilt		
Purple Swamphen		
Black Swan		
Chestnut Teal		
Grey Teal		

Enter any unlisted birds (or if you run out of room) below the Grey Teal.