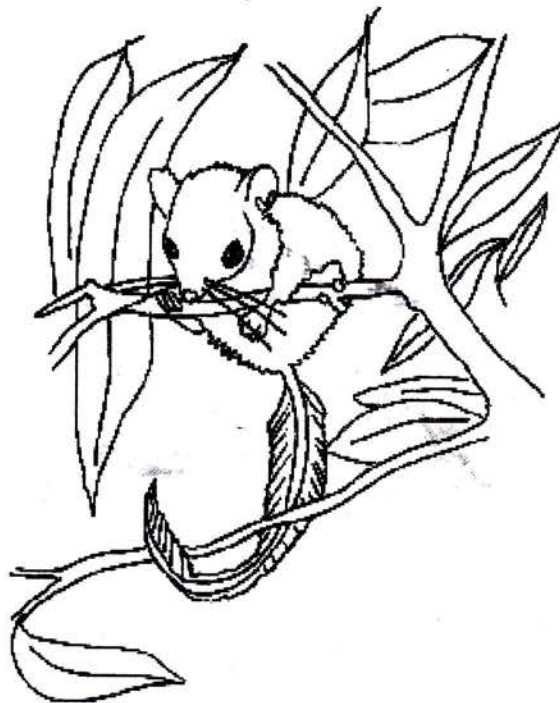


# Hollow Log Homes



Wildlife Box Audit  
Coolum & District Coast Care  
3<sup>rd</sup> December 2004

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## Introduction

43 boxes were checked in the Coolum area these boxes are placed in Yinneburra Bushland Park, Springfield Avenue Park, Point Arkwright, Yaroomba Bushland Park, the road reserve on the western side of the David Low Way at Point Arkwright and a reserve near the roundabout on Coolum-Yandina Road. The boxes were all checked for habitation of native species, as well as state of wire attachments to trees, lid & hinge condition.

## Results

### Yinneburra bushland Park

12.5% conformed habitation by native vertebrate

Box Number	Box type	Observations	Action taken if any
1	Small forest bird	Ants in box	Sprayed with pyrethrum & eucalyptus
2	Small forest bird	Small ringtail possum in residence	
3	Possum	Scratches on lid above hole indicating that animal may be investigating the box evidence of ringtail possum using box	
4	Small Parrot	Ants in box	Sprayed with pyrethrum & eucalyptus
5	Small forest bird	Nest material cup shaped indicating that something has used the box , paper bark taken into box	
6	Small forest bird	Old Nest from last year still intact indicating box has not been used since January 2004	
7	Small Parrot	Entrance hole chewed, but no sign of habitation	
	Dollar Bird	Entrance hole chewed	

# Yaroomba Bushland Park

26.6% confirmed use by native vertebrate species

Box Number	Box type	Observations	Action taken if any
9	Micro bat	No obvious signs of habitation , no spiders webs over entrance indication some use	
10	Small parrot	No signs of recent habitation, box & wire in good condition	
11	Dollar bird	Box tight on tree will need to be adjusted next audit	
12	Dollar bird	No sign of habitation	
13	Feather-tail glider	Weaver ants in box	Sprayed with eucalyptus& pyrethrum
14	Small parrot , scaly breasted lorikeet	Feathertail glider colony	Photo 1
15	Small parrot	No nesting material left in box, hole has been chewed by parrots	
16	Possum	No sign of habitation	
17	Small parrot	Hole showed signs of parrot chews, fresh eucalyptus leaves in box indicating use by gliders	
18	Possum log box	Infestation of feral European bees	Poisoned bees & cleaned out box
19	Micro bat	No sign of vertebrate habitation, mud wasp nest in box	
20	Micro bat	No sign of vertebrate habitation	
21	Dollar bird	Eucalyptus leaves in box indicating use by sugar gliders	Photo 2
22	Small Parrot , scaly -breasted Lorikeet	Eucalyptus leaves in box indicating use by sugar gliders	
23	Micro bat, hanging	No sign of vertebrate habitation	



## Springfield Avenue

70% confirmed use by native vertebrate species

Box Number	Box type	Observations	Action taken if any
24	Glider	Eucalyptus leaves in Box indicating use by gliders	
25	Red wing Parrot	Box very tight on tree	reattached box using the Habisure system
28	Possum	Nest material compacted and cup shaped, smell of possum urine indicating box being used as den site	
38	Kookaburra	Kookaburras nesting	
	Small parrot	Eucalyptus leaves inside box indicating use by gliders	
	Small parrot	Eucalyptus leaves inside box indicating use by gliders	
	Small Parrot	2 Owlet night-jars	Photo 3
	Log box	Feral European bees	Poisoned bees & cleaned out box
	Triangle kookaburra	Indication of some activity	
	Glider	Winter glider nest	

## Reserve near roundabout Yandina-Coolum Road

50% confirmed use by native vertebrate species

Box Number	Box type	Observations	Action taken if any
29	Large Log box	4 Dollar bird chicks in Box	Photo 4
30	Micro bat	No sign of habitation	

## Point Arkwright

Box Number	Box type	Observations	Action taken if any
31	Possum	Weaver ants	Sprayed box with eucalyptus & pyrethrum
32	Small parrot	Weaver ants	Sprayed box with eucalyptus & pyrethrum
33	Dollar bird	Weaver ants	Sprayed box with eucalyptus & pyrethrum
34	Kookaburra	Nest material compacted indicating box has been used by something possibly a possum	
35	Small parrot	large huntsman spider	

## Road Reserve, western side David Low way Point Arkwright

Box Number	Box type	Observations	Action taken if any
36	Small parrot	Large huntsman spider	
37	Small forest bird	No sign of recent habitation	

## Species Discussed

Common name	Scientific name
Dollar Bird	<i>Eurystomus orientalis</i>
Australian Owlet- nightjar	<i>Aegotheles cristatus</i>
Sugar Glider	<i>Petaurus breviceps</i>
Ringtail possum	<i>Pseudocheirus peregrinus</i>
Feathertail Glider	<i>Acrobates pygmaeus</i>
Laughing Kookaburra	<i>Dacelo novaeguineae</i>

## Conclusion

The results at the majority of locations are still disappointing. We are unable to confirm vertebrate activity in any of the boxes at point Arkwright; this may be due to the high level of development in the area. It may take a number of years before native species returns to this area if at all. It will be important to monitor these boxes over the next 10 years to ascertain the affect of coastal development on our native hollow dependant fauna. It is vital to establish wildlife corridors along these coastal strips. The best results were at Springfield Avenue with 70% occupancy rate, this is consistent with findings in other areas where there has been reestablishment of native habitat & links made to other corridors Yaroomba Bushland Park occupation rates are still surprisingly low considering this patch of bushland is still quite intact but again there has been much development in the surrounding areas. From looking in the boxes there does seem to be quite a healthy population of gliders in this park & with the food source being protected it is hoped that this population will expand over the next few years.

## Recommendations

All Boxes be checked in December 2005 for habitation and for stability on tree.  
Springfield Avenue has a high occupancy rate and the vegetation has grown substantially since the boxes were first installed more boxes could be put in the area.



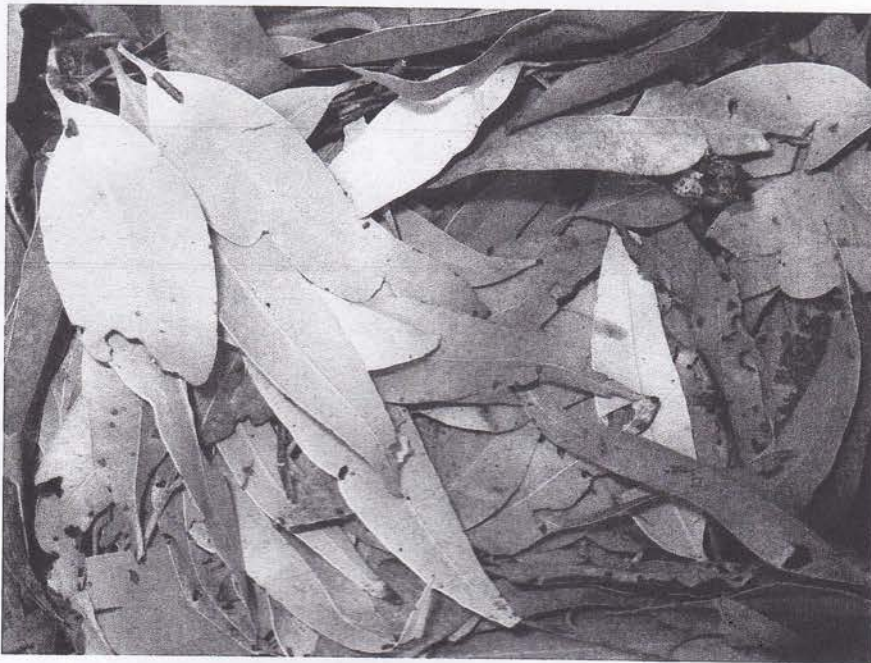


Photo 1  
Showing feather-  
tail gliders nest at  
Yaroomba  
Bushland Park

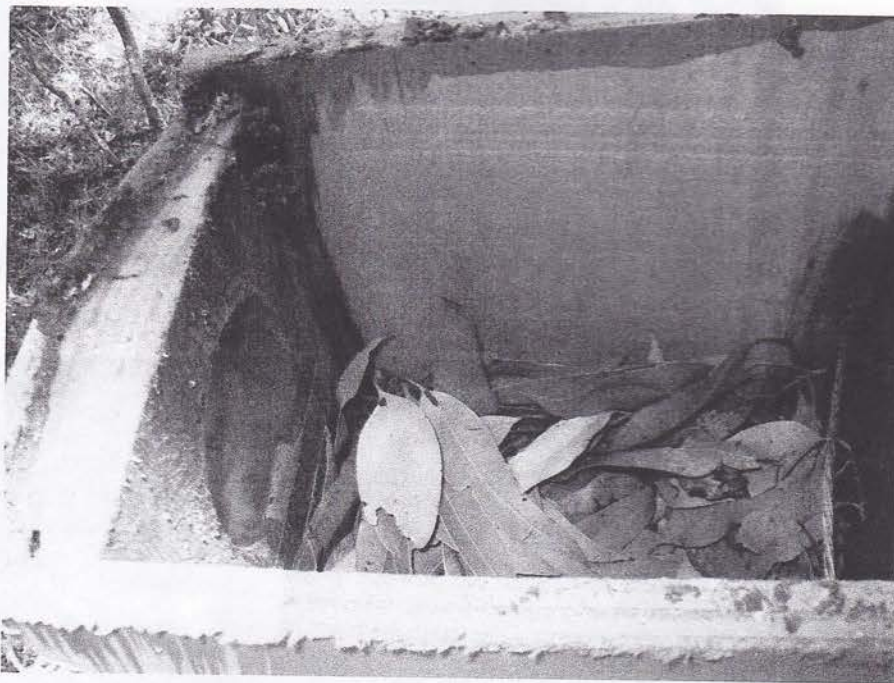


Photo 2  
Showing gliders  
nest at Yaroomba  
Bushland Park





Photo 3  
Showing Owlet Nightjar in  
entrance hole of box  
Springfield Avenue

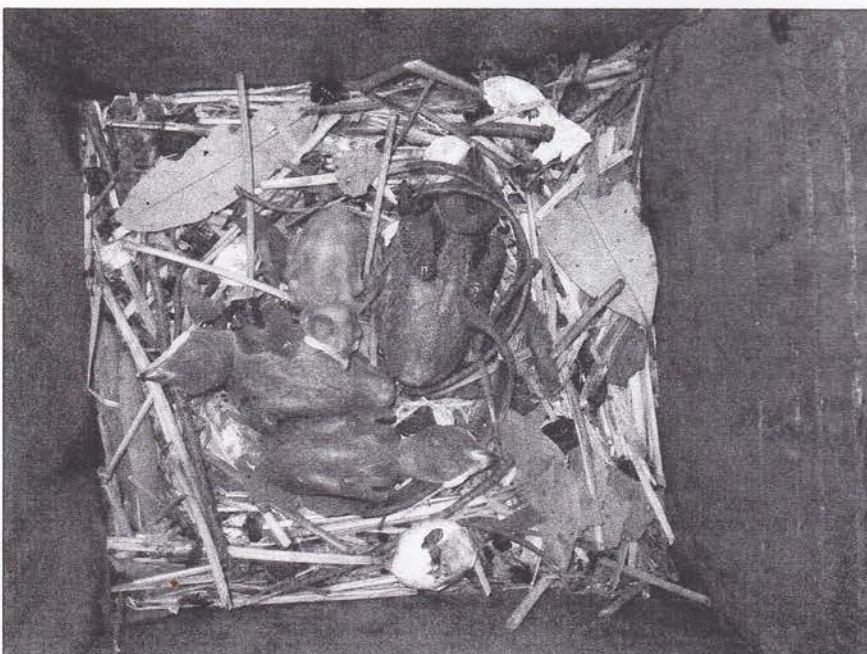


Photo 4  
Showing newly hatched  
Dollar bird chicks,  
Reserve near  
roundabout.  
Note: The Mother starts  
incubating the eggs  
from the time the first  
egg is laid therefore the  
chicks hatch several  
days apart.