
Hollow Log Homes

Nest Box Audit
Port of Brisbane Authority

Pritchard Street, Wynnum Road North,

4th October 2018



*Hollow Log
Homes*



A Colony of Micro Bats.

Goulds wattled Bat

Chalinolobus gouldii

Box number 7

Pritchard Road

Table of Contents

1.Summary

- 1.1** Pritchard Street Buffer Zone
 - 1.2** Wynnum Road North
 - 1.3** Lucinda Drive
-

2.Discussion

- 2.1** Pritchard Street Buffer Zone
 - 2.2** Wynnum Road North
 - 2.3** Lucinda Drive
-

3.Tables

- 3.1** Native Species Mentioned
 - 3.2** Box Usage
 - 3.3** Habits, Signs and Identification of Native Fauna in Nest Boxes
 - 3.4** Overview of Boxes 2008-2018
-

4.Result Graphs - Habitation Rates

- 4.1** Habitation Rates 2017
 - 4.2** Habitation Rates 2008 - 2017
 - 4.3** Activity 2008-2018
-

Appendix i - Field notes

Appendix ii - Photographs Pritchard Street

Appendix ii - Photographs Wynnum Road North

1.Summary

1.1Pritchard Street Buffer Zone: 32 Boxes

Date of Installation: 4th of June 2008

5 new boxes installed 7th of August 2013

3 new boxes installed 29th of September 2016

5 boxes removed 4th October 2018

Date of previous audits: 27th of January 2010, 23rd of March 2011, 24th of January 2012, 31st January 2013, 27th August 2014, 9th September 2015, 29th September 2016, 7th September 2017

Date of Current Audit: 4th October 2018

Box usage by native species: Overall 28 boxes (81%)

Boxes with native species present: 15 boxes (53%)

Squirrel Glider (2 colonies), Possums (7 animals),

Micro bats (5 colonies) , wood ducks (1 nest)

Box Type	Small Parrot	Boobook Owl	Owlet Night jar	Wood duck	Possum	Glider	Microbat	Galah	Kookaburra
Number Installed	4	2	3	3	5	8	5	1	1

1.2Wynnum North Road, 17 Boxes

Date of Installation: 4th of June 2008

4 new boxes installed 29th of September 2016

4 boxes removed 4th September 2018

Date of previous audits: 27th of January 2010, 23rd of March 2011, 24th of January 2012, 31st January 2013, 27th August 2014, 9th September 2015, 29th September 2016, 7th September 2017

Date of Current Audit: 4th October 2018

Box usage by native species: Overall 14 boxes (74%)

Boxes with native species present: 7 boxes, (37%)

Possum,(6 animals), Native bees (1 hive),

Box Type	Small Parrot	Boobook Owl	Owlet Night jar	Wood duck	Possum	Glider	Microbat	Kookaburra
Number Installed	3	1	3	1	2	4	2	1

1.3 Lucinda Drive 4 boxes

Date of Installation : 25th September 2017

Date of Audit : 4th October 2018

Box Type	Rear entry Glider	Barn Owl
Number Installed	2	2

2. Discussion

2.1 Pritchard Street Buffer Zone: 32 Boxes

Habitation rates at the Pritchard Street site remain fairly constant this year in line with previous years, two colonies of Squirrel Gliders were recorded with evidence of this species using a further four boxes. Five boxes contained colonies of micro bats with three further boxes having staining at the entrance hole and were clear of cobwebs (evidence of use by this species) . Seven of the boxes had Common Brushtail possums in residents with signs of use by this species in another five boxes. Rainbow Lorrikeets have nested in three boxes and Wood Ducks are currently nesting in one box . Three boxes were removed due to disrepair, these boxes were replaced in 2016 but could not be removed at that time. Three boxes had their lids replaced, there are another two boxes that need new lids but they could not be repaired at this time due to Possums and Wood ducks using them. In all fifteen of the boxes had native species present at the time of audit with a further thirteen boxes showing signs of recent habitation , this equates to a habitation rate of 81% on this site.

2.2 Wynnum Road North: 17 boxes

Of the nineteen boxes installed at the Wynnum Roads north site, six boxes had native species present at the time of audit with a further six boxes showing recent signs of activity. Common brushtail possums are the most dominant species with these occupying five boxes and evidence of occupation in another two boxes. The native bee hive that has been present since 2010 is still a thriving colony , however this box is deteriorating so the colony may move on to a new box in the coming years. There are several suitable boxes in adjacent trees. Four boxes were removed , as in the Pritchard Street site new boxes were installed in 2016 to replace these damaged boxes.

2.3 Lucinda Drive 4 Boxes

Four boxes were installed close to the port of Brisbane offices in 2017 , these boxes have yet to be occupied by native species

3. Tables

3.1 Native Species Mentioned

Common name	Scientific Name
Squirrel Glider	<i>Petaurus norfolcensis</i>
Common Brushtail Possum	<i>Trichosurus vulpecular</i>
Goulds wattled Bat	<i>Chalinolobus gouldii</i>
Native Bee	<i>Tetragonula carbonaria</i> (previously <i>Trigona</i>)
Rainbow Lorrieket	<i>Trichoglossus haematodus</i>
Wood duck	<i>Chenonetta Jubata</i>

3.2 Box Usage # indicates dual occupancy

Park	Species	Boxes with animals present	Boxes with evidence of use
Pritchard Street	Squirrel glider	23, 51	13, 29, #32, 52
	Micro bat	1, 7, 12, 15, 18,	6, #20, 22,
	Brush-tail possum	4. 10, 11, 19, 30, 53, 56	14, 17, #32, 54, 55
	Rainbow Lorrieket		2, 16, #20
	Wood Duck	24	
Wynnum Road North	Squirrel glider		35, 46
	Brush-tail possum	30, 31, 39b,40b 42b,44b	37, 38
	Native bees	34	
	Micro bat		32, 43

3.3 Habits, Signs and Identification of Native Fauna in Nest Boxes

3.3.1 Common Name	Scientific Name	Status	Total Boxes used	# Boxes with animals present
Common Brushtail Possum	<i>Trichosurus vulpecular</i>	Common	19	12

Habits: Will use between 2 - 40 nest holes within home range.

Indications: Hair caught around entrance hole, wood shavings flattened and often pushed aside or not present, polishing of entrance hole, bite marks around entrance, strong smell.

3.3.2 Common Name	Scientific Name	Status	Total Boxes used	# Boxes with animals present
Squirrel Gliders	<i>Petaurus norfolcensis</i>	Common	8	2

Habits: Each colony will use up to five nest holes. Colonies are loosely family based with up to 12 Gliders in each colony, usually with 3-5 individuals using one nest hole.

Indications: Nest hole lined with eucalyptus leaves, in winter time one favourite nest hole may be full to the top of leaves; hair caught in entrance hole; fine scratches on tree above 1 metre and box sides and lid. Shelter holes within feeding areas are often apparent, these will not be lined with leaves but will have scratches on lid and sides and often hair caught in hole. These shelter boxes may become nest holes at a later stage. Bottom opening bat boxes are sometimes used as shelter boxes.

3.3.3 Common Name	Scientific Name	Status	Total Boxes used	# Boxes with animals present
Gould's Wattled bat	<i>Chalinolobus gouldii</i>	Common	10	7

Habits: Micro bats will often change their roost sites nightly. Boxes may also be used for shelter as they digest their food throughout the night.

Indications: In boxes with bases, droppings are often visible, these droppings will be very friable and full of insect remains. Staining at the entrance hole is often a further indication of micro bat use.

3.3.4 Common Name	Scientific Name	Status	Total Boxes used	# Boxes with animals present
Native Bees	<i>Trigona cardonaria</i>	Common	1	1

Habits: Common around Brisbane. Less active in winter but will forage on warm, sunny days.

Indications: Fills the nest box with a mixture of wax and resin; combs spiral.

3.3.5 Common Name	Scientific Name	Status	Total Boxes used	# Boxes with animals present
Wood Duck	<i>Chenonetta jubata</i>	Common	1	1

Habits: use hollows for nesting , female fills nest hollow with copious amounts of soft down.

Indications: 8-10 eggs , nest hole filled with soft down from females belly , large white hen size eggs.

3.4 Overview of boxes 2008-2018

3.4.1 Pritchard Street

Box number & type	2008	2010	2011	2012	2013	2014	2015	2016	2017	2018
1 Glider			ants	ants						
2 Parrot			ants				needs lid	new lid		
3 ONJ		moved box	ants		ants	new lid	micro bat poo			removed box
4 Glider		feral bees								
5 Bat										Box missing
6 ONJ			ants		ants	lid chewed	ants			bat skeletons
7 Parrot	moved box	hole chewed		ants		needs new lid	needs lid	new lid		
8 Boobook				2 possums			needs lid	new lid		
9 Glider			ants		ants					removed box
10 Parrot				unknown nest		needs new lid	needs lid			
11 Boobook				2 possums						
12 Bat				ants						
13 Glider			ants				old bee hive			new lid
14 Possum		2 possums					+ WD down			new lid
15 Bat										
16 ONJ				ants	ants					
17 Glider			ants	ants						
18 Bat				ants						
19 Wood duck								replaced box		
20 Parrot	droppings on lid			hole chewed	ants	also gliders nest	micro bat poo		Lorrieket nesting	Lorrieket nesting
21 Possum	2 possums	2 possums		2 possums			needs replacing			removed box
22 Bat			ants	ants						
23 Glider										
24 Wood Duck										
25 Bat			replaced box							
26 Bat				ants						Box missing
27 Bat										Box missing
28 Bat		Box missing								
29 Glider										
49 Possum					new		2 possums			
50 Possum					new					glider nest
51 Glider					new					
52 Glider					new					
53 Possum					new					needs lid
54 wood duck								new		
55 Possum								new		
56 Galah								new		

3.4.2 Wynnum Road North

Box number & type	2008	2010	2011	2012	2013	2014	2015	2016	2017	2018
30 Possum							N/A	N/A	N/A	
31 glider			feral bees	ants		ants			needs lid	
57 Possum									new box	
32 bat										
33 bat				FTG						removed box
34 ONJ	feral bees									
35 Glider				box repaired				new lid		
36 ONJ					feral bees	needs ne	needs lid	replaced Box		
37 Possum	2 possums		ants							
38 glider							needs lid			
39 wood duck							new lid			Bark
40 boobook	2 possums						needs repla	replaced box		
41 glider	feral bees						needs lid			removed box
42 ONJ							needs replacing			
42BKooka								new		
43 bat										
44 parrot	chewed hole		feral bees	chewed hole			2 possums	removed box		
44B kooks								new		
45 bat										removed box
46 parrot	chewed hole		chewed hol	ants			needs lid			
47 parrot	chewed h	chewed h	ants	chewed hole			needs lid	new lid		
48 parrot	chewed h	chewed hole		chewed hole		needs ne	needs lid	new lid		removed box
48B RE glider								new		

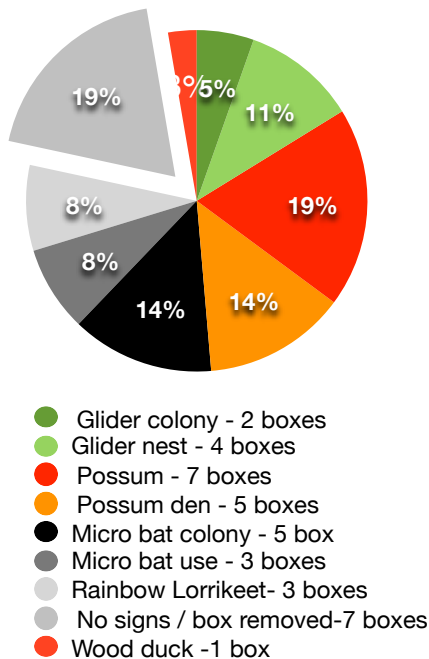
Key

no signs	glider nest	glider colony	possum den	possum	rainbow lorrieket nest	native bees	carpet python	feral species	bats	bat use	galah nest	rosella nest	wood ducks

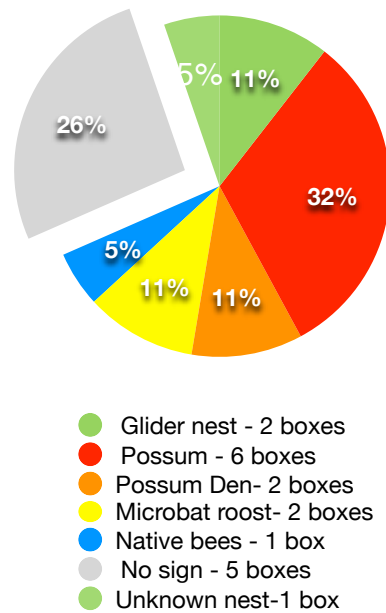
4.Result Graphs

4.1 Habitation Rates 2018

4.1.1 Pritchard Street

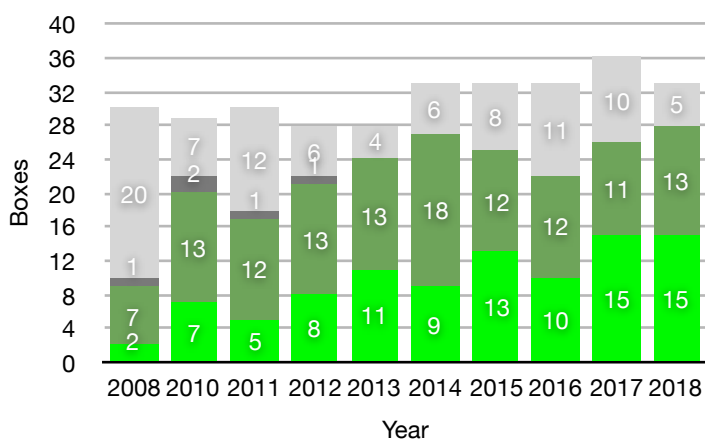


4.1.2 Wynnum Road North

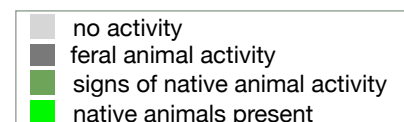
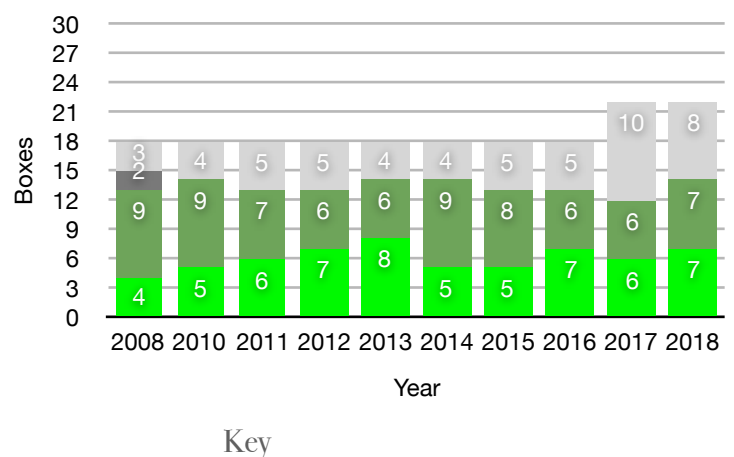


4.2 Habitation Rates 2008 - 2018

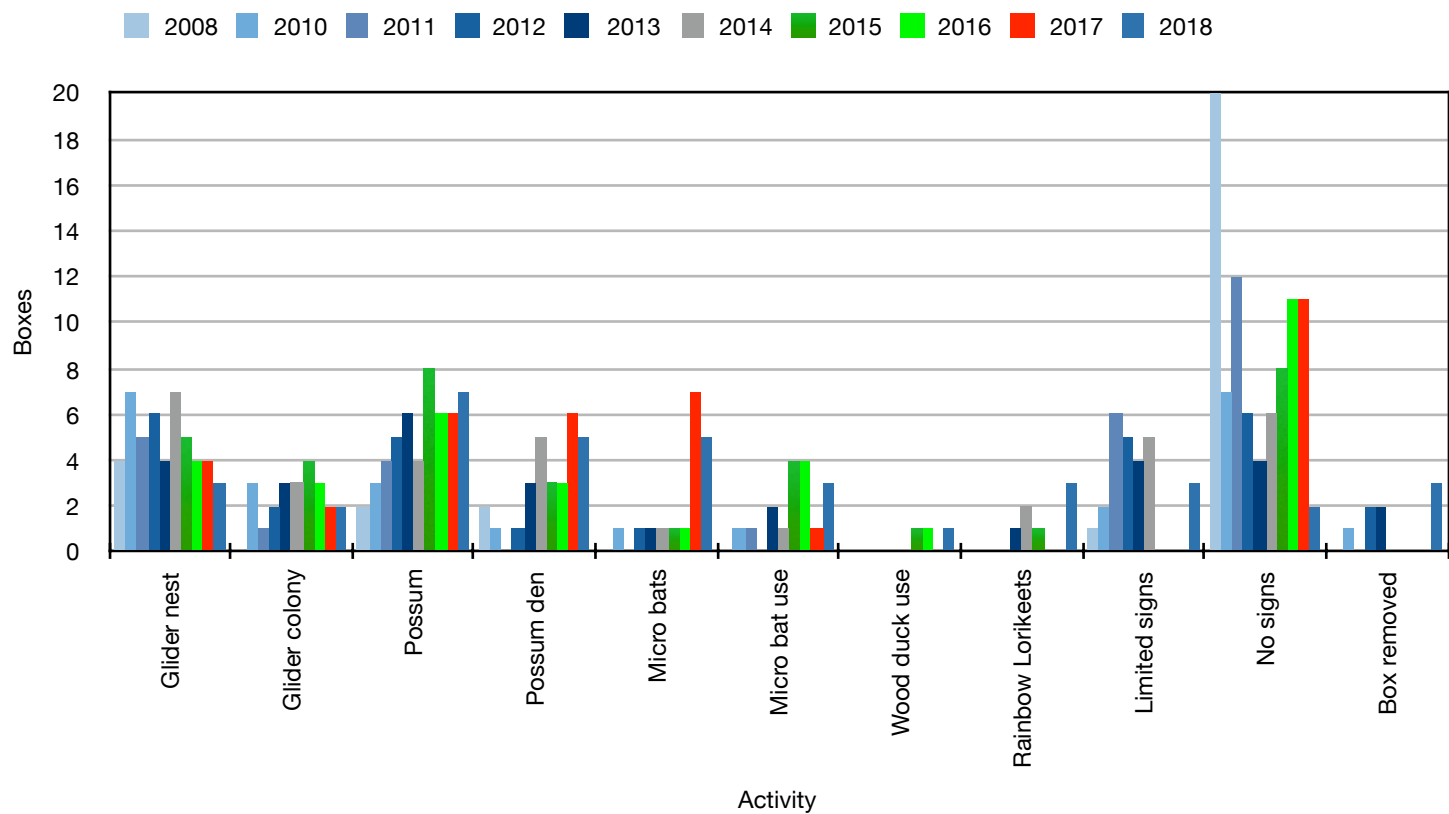
4.2.1 Pritchard Street



4.2.2 Wynnum North Road



4.3.1 Activity: Pritchard Street 2008-2018



4.3.2 Activity :Wynnum Road North 2008-2018

