

AUSSIE BACKYARD BIRD COUNT

**2021 Results for
City of South Perth**

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18-24 October 2021


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Membership of BirdLife Australia is open to anyone interested in birds and their habitats and concerned about the future of our avifauna. For further information about membership, subscriptions and database access, contact

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Introduction



In 2014, as part of BirdLife Australia's National Bird Week celebrations, BirdLife Australia ran the first ever Aussie Backyard Bird Count — now one of the largest citizen science projects of this nature in Australia. The Aussie Backyard Bird Count provides an opportunity for everyone — from school children, senior citizens, families and community groups — to become citizen scientists for one week every October. With over 85% of Australians living in urban environments with often limited opportunities to experience nature, the Aussie Backyard Bird Count is a great way to get outside and connect with nature.

The data collected by these citizen scientists plays a vital role in providing important information to BirdLife Australia. We know more about our threatened birds than we do about our common backyard birds and the Aussie Backyard Bird Count helps to fill this knowledge gap, as well as increasing our understanding of Australian bird species that live where people live. The Aussie Backyard Bird Count also helps raise the profile of bird species throughout Australia, highlighting their importance and promoting a national passion for Australian birds.

Each year this natural passion is confirmed, with the Aussie Backyard Bird Count attracting significant interest from the public eager to be involved and help contribute to our growing knowledge of Australian birds. Public involvement continues to increase each year the Aussie Backyard Bird Count is run, with the number of birds counted also significantly increasing each year. Additionally, involvement by local councils increases year-on-year with more bird-focused events being held during Bird Week, improving the awareness and importance of local birds within their communities. And with the release of lesson plans which encourages students to participate both at school and at home, the number of schools participating in the Aussie Backyard Bird Count continues to grow.

The national focus on birds is extremely important with data showing Australian backyards have been shrinking since the 1990s, and populations of some of our most familiar birds like the Laughing Kookaburra, have also declined. While data collected from the Aussie Backyard Bird Count is currently only a baseline, results from the past four years show that Australian backyards — in all their shapes and sizes — continue to attract a range of birds, giving us hope that even as the iconic Aussie backyard shrinks, many native birds can and do remain. Results from the Aussie Backyard Bird Count support the decline in kookaburra numbers over the years while aggressive species such as the Noisy Miner appear to be increasing. With growing national and international concern for the welfare of these iconic Australian birds, citizen science projects such as the Aussie Backyard Bird Count can help provide an insight into how Aussie birds are faring and results can help formulate subsequent management decisions.

The next Aussie Backyard Bird Count will take place from 17 - 23 October 2022

2021 Aussie Backyard Bird Count Results

Count Summary

The following statistics summarise the results of the 2021 Aussie Backyard Bird Count for the **City of South Perth**. The count ran from the **18th to 24th October 2021**.

- **146** observers participated in the bird count, submitting 199 checklists.
- Submitted checklists ranged from between **1** and **13** per registered user (average of **2.55** per registered user).
- Observers counted birds for a combined duration of **62** hours and **40** minutes.
- Observers recorded a total of **5,005** individual birds during Bird Week.
- **73** bird species were recorded (Table 1).
- The reporting rate for individual species (percentage of total surveys a species was detected in) ranged from **0.50 %** (representing a single observation) to **58.29 %** (Table 1). Low reporting rates for species with high counts indicate that many birds of these species were reported within single surveys (i.e., seen in family groups or large flocks).

Table 1: Total count and reporting rate (%) of all 73 bird species observed within the City of South Perth boundaries during the 2021 Aussie Backyard Bird Count.

* Introduced species; RA = Rare; NT = Near Threatened; VU = Vulnerable; En = Endangered, CE = Critically Endangered, PR4 = Priority Four (based on IUCN listings; BirdLife Australia, 2019).

Bird Species	Count	Reporting Rate (%)	Bird Species	Count	Reporting Rate (%)
Rainbow Lorikeet	866	58.29	Laughing Kookaburra	10	3.52
Australian Magpie	411	51.26	Red-tailed Black-Cockatoo (VU)	10	2.01
Australian Raven	394	50.25	Australasian Grebe	7	2.01
Red Wattlebird	310	45.23	Osprey	7	2.01
New Holland Honeyeater	303	36.68	Carnaby's Black-Cockatoo (En)	7	1.51
Willie Wagtail	268	43.72	Hardhead	7	1.01
Laughing Dove *	251	35.18	Little Black Cormorant	6	3.02
Singing Honeyeater	208	33.67	Striated Pardalote	6	2.51
Silver Gull	200	10.55	Great Egret	6	1.51
Galah	163	25.63	Nankeen Night-Heron	6	1.51

Australian Wood Duck	152	6.03	Little Egret	5	1.51
Brown Honeyeater	126	21.61	Pied Butcherbird	5	1.01
Magpie-lark	119	32.66	Red-capped Parrot	4	1.01
Western Wattlebird	110	15.08	Caspian Tern	4	0.5
Pacific Black Duck	103	9.05	Australasian Shoveler	3	1.51
Spotted Dove *	92	20.6	Australian Pied Oystercatcher	3	1.01
Australian White Ibis	87	25.63	Crested Pigeon	3	1.01
Welcome Swallow	78	8.54	Great Cormorant	3	1.01
Australian Pelican	63	9.55	European Goldfinch *	2	1.01
Black Swan	56	7.54	White-faced Heron	2	1.01
Western Corella	54	4.02	Grey Teal	2	0.5
Eurasian Coot	53	2.51	Little Grassbird	2	0.5
Little Corella	52	6.53	Tree Martin	2	0.5
Dusky Moorhen	52	4.02	Weebill	2	0.5
Purple Swamphen	48	3.52	Brown Goshawk	1	0.5
Australian Shelduck	41	2.51	Common Bronzewing	1	0.5
Australian Ringneck	33	5.53	Domestic Duck *	1	0.5
White-cheeked Honeyeater	26	4.52	Great Crested Grebe	1	0.5
Blue-billed Duck (PR4)	26	1.51	Grey Fantail	1	0.5
Australasian Darter	23	4.02	Long-billed Corella	1	0.5
Rock Dove *	23	4.02	Nankeen Kestrel	1	0.5
Silvereye	23	2.01	Rainbow Bee-eater	1	0.5
Great Pied Cormorant	18	2.51	Rufous Whistler	1	0.5
Black-faced Cuckoo-shrike	14	4.52	Spotted Pardalote	1	0.5
Freckled Duck	12	0.5	Straw-necked Ibis	1	0.5
Little Pied Cormorant	11	2.01	Western Spinebill	1	0.5
Grey Butcherbird	10	4.52			

Survey Distribution

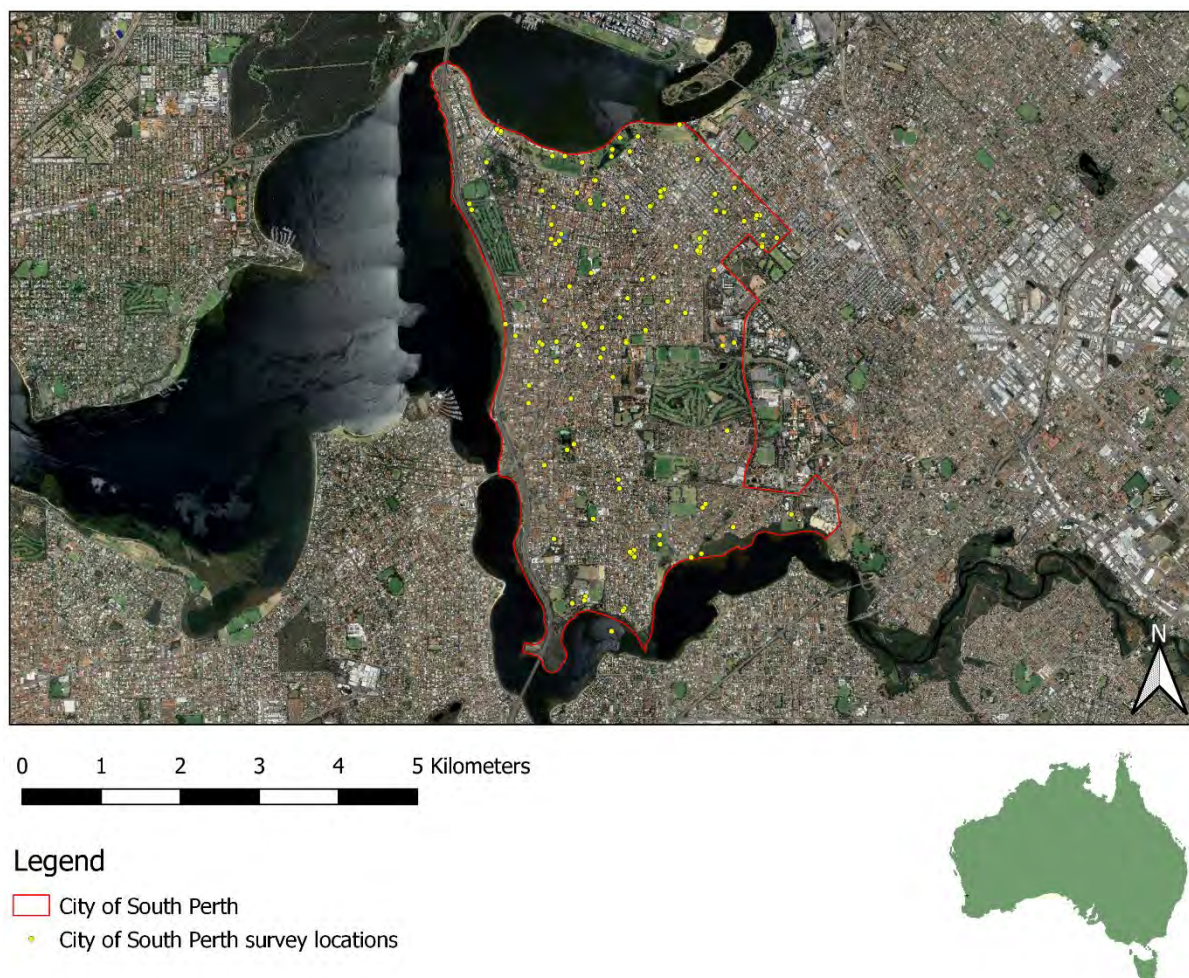


Figure 1: Bird observations recorded within City of South Perth boundaries during the 2021 Aussie Backyard Bird Count. Bird observations that were recorded in a single survey overlap due to having the same GPS coordinates, so each yellow circle represents a single complete survey.

Least Common Species

The least commonly observed bird species recorded within the City of South Perth boundaries all corresponded to one single survey observation and included:

- Brown Goshawk
- Caspian Tern
- Common Bronzewing
- Domestic Duck *
- Freckled Duck
- Great Crested Grebe
- Grey Fantail
- Grey Teal
- Little Grassbird
- Long-billed Corella
- Nankeen Kestrel
- Rainbow Bee-eater
- Rufous Whistler
- Spotted Pardalote
- Straw-necked Ibis
- Tree Martin
- Weebill
- Western Spinebill

All but one of the **18** bird species reported only once are native to Australia. The Domestic Duck is a descendant of the Northern Mallard that can escape captivity or establish in urban parks after being abandoned. The Long-billed Corella is native to south-eastern Australia but has been locally introduced to Western Australia. All of the 16 locally native species are classified as having secure populations in Western Australia. Two of the 16 species are raptors, and six are associated with aquatic habitats such as coastlines, lakes, and wetlands. The remaining species are typically found in woodlands and forests and in urban areas are only found in remnant bushland, or during periods of dispersal. The behaviours and habitat requirements of these species may account for the lack of reports during Bird Week, especially if most surveys occurred in people's backyards.

Most Common Species

Eight of the ten most abundant bird species recorded within the City of South Perth boundaries are native to Western Australia, while the Rainbow Lorikeet and Laughing Dove are both locally introduced. The top ten bird abundances ranged from **163** to **866** individual birds (Figure 2). All eight native species are considered to have secure populations in Western Australia.

The most *counted* species, the Rainbow Lorikeet was also the most counted species across the state, despite being introduced to Perth, and most counted in the country. The second-most counted species, the Australian Magpie, was both the third-most counted in the state and nationally. The third-most abundant species, the Australian Raven, was the fourth-most counted in the state and 23rd nationally. Most of the species in the City of South Perth Top 10 have relatively similar standings to the state-wide average, reflecting the similarity of the council's urban/suburban habitat to the other urbanised regions of the south-west (from which the vast majority of WA surveys are submitted).

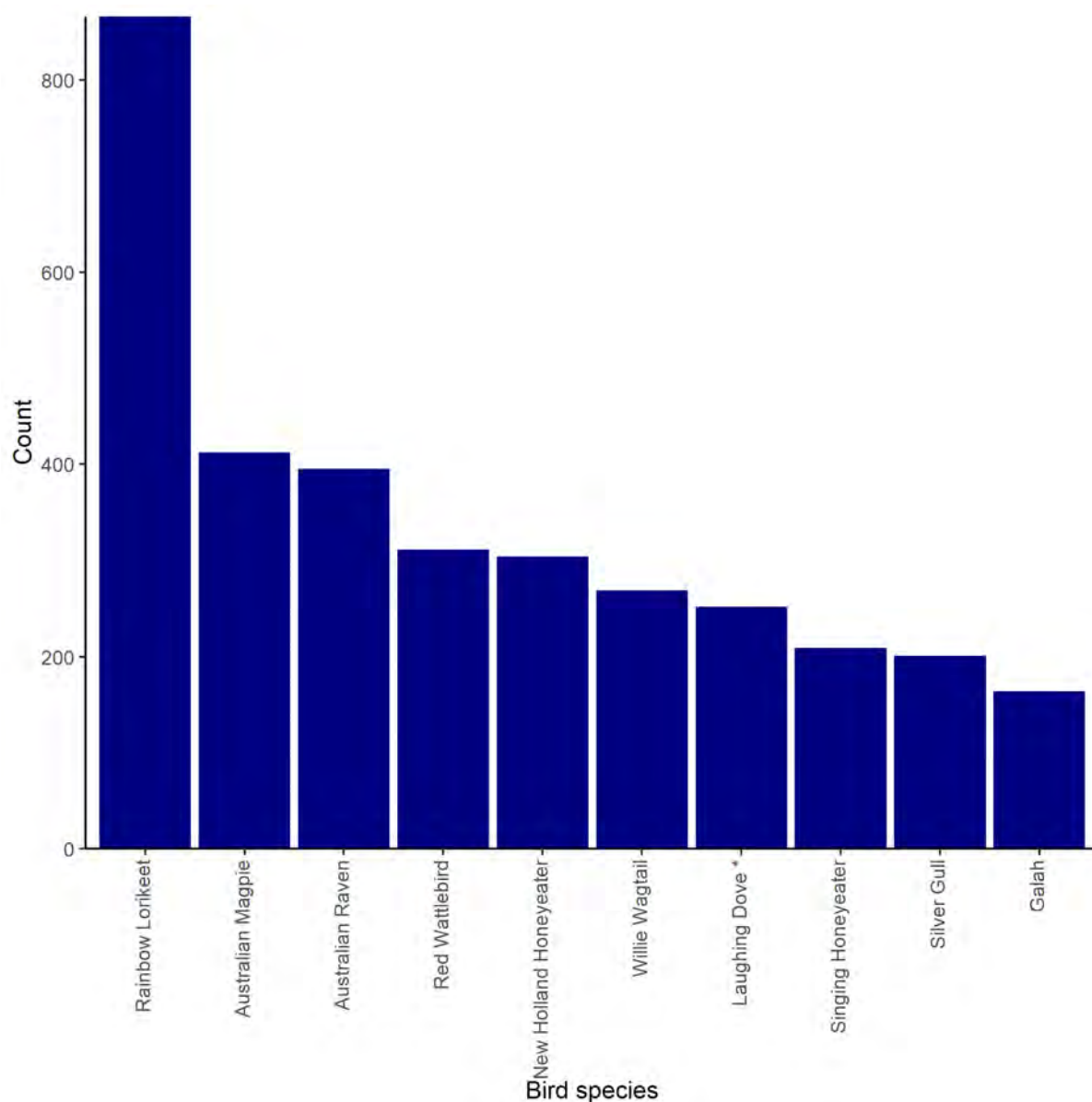


Figure 2: The ten most abundant bird species within the City of South Perth boundaries during the 2021 Aussie Backyard Bird Count. * Indicates introduced species.

Majority of the ten most frequently *reported* species within City of South Perth boundaries were reported at similar rates to the state averages, though all were recorded at higher rates than the national averages (Figure 3). The New Holland Honeyeater was the only species reported at a slightly lower rate than the state average, although it was still reported at a much higher rate than the national average (despite occurring throughout large parts of eastern Australia). The Willie Wagtail was also reported at a considerably higher rate than the national average despite occurring almost Australia-wide. The reporting rates of the Laughing Dove, Rainbow Lorikeet, and Singing Honeyeater were most notable in comparison to their state and national averages. The Rainbow Lorikeet and Laughing Dove are both introduced species that thrive in inner urban environments. The Rainbow

Lorikeet also competes strongly with native birds in Western Australia, including other parrot species (like the Australian Ringneck and Red-capped Parrot). The Singing Honeyeater is very common throughout suburban Perth, but largely absent from most other capital cities (and the entire east coast).

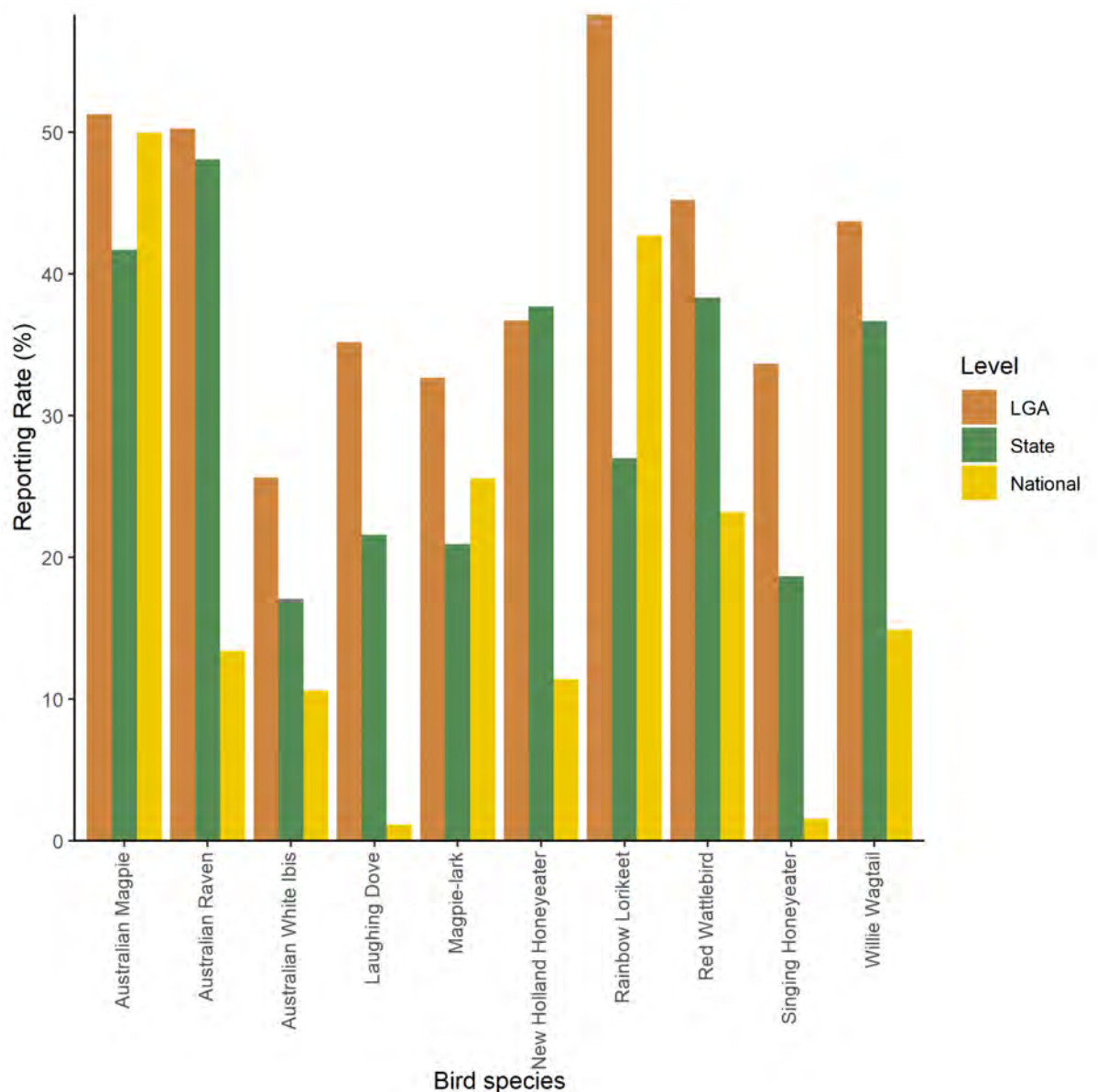


Figure 3: Comparison of the reporting rates (%) of the ten most frequently recorded species during the 2021 Aussie Backyard Bird Count within the City of South Perth boundaries, with South Australian and national reporting rates.

Introduced Species

Nine introduced bird species were recorded within the council boundaries during the 2021 Aussie Backyard Bird Count (Table 2, Figure 4). The Rainbow Lorikeet, Little Corella, Long-billed Corella, and

Laughing Kookaburra have all been introduced from eastern Australia, where all three species are native. Introduced species were observed evenly throughout the City of South Perth (Figure 4); given the fairly homogenous urban character of the council, with only small areas of natural vegetation, this is not surprising.

The Rainbow Lorikeet (58.29 %), Laughing Dove (35.18 %), and Spotted Dove (20.6 %) were the introduced species reported in the highest proportion of surveys within the council boundaries and were spread widely. Little Corella (6.53 %) and Rock Dove (4.02 %) were also reported in several surveys each. Figure 4 gives an overall indication of introduced species distribution across the City of South Perth, but individual species distributions are difficult to discern due to the overlap of records. Accordingly, the individual distribution maps for each introduced species have been provided in **Appendix 1**.

Table 2: Survey statistics for the introduced bird species recorded within City of South Perth boundaries during the 2021 Aussie Backyard Bird Count.

Bird Species	Count	Proportion of total individuals (%)	Number of surveys detected in	Reporting rate (%)
Rainbow Lorikeet	866	17.30	116	58.29
Laughing Dove	251	5.01	70	35.18
Spotted Dove	92	1.84	41	20.6
Little Corella	52	1.04	13	6.53
Rock Dove	23	0.46	8	4.02
Laughing Kookaburra	10	0.02	7	3.51
European Goldfinch	2	0.04	2	1.01
Long-billed Corella	1	0.02	1	0.5
Domestic Duck	1	0.02	1	0.5

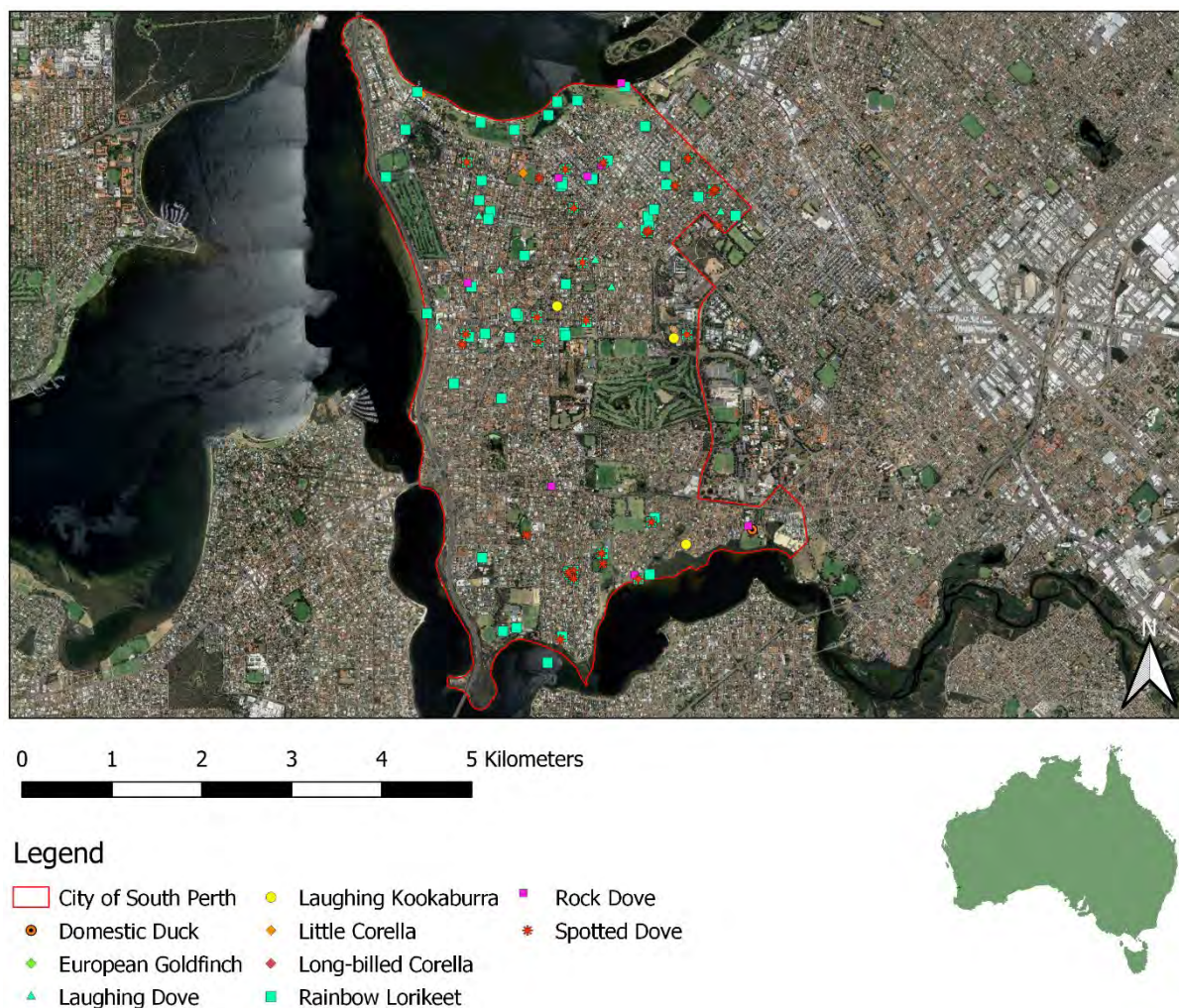


Figure 4: Distribution of the introduced bird species within the City of South Perth boundaries during the 2021 Aussie Backyard Bird Count. Bird observations that were recorded in a single survey overlap due to having the same GPS co-ordinates.

Native Species of Management Concern

European colonisation has had a large impact on the conservation status of Australian birds. Approximately 234 species of Australian bird are now classified by the International Union for Conservation of Nature (IUCN) as Extinct, threatened with extinction, or Near Threatened (Garnett *et al*, 2011). It is critical that we gain an understanding of where these threatened species persist so that we can implement appropriate management actions in these areas. The Aussie Backyard Bird Count provides an opportunity for community members to participate in this important work.

In total, **three** species of bird listed as threatened were recorded within the council boundaries (Table 3, Figure 5). All three threatened species were recorded in only three or four surveys each. Figure 5 gives an overall indication of threatened species distribution across the City of South Perth.

There was no overlap in threatened species records this year; accordingly, no separate appendix of individual threatened species maps has been provided.

Table 3: Threatened species recorded within City of South Perth boundaries.

Bird Species	Status	Count	Number of surveys detected in	Reporting rate (%)
Red-tailed Black-Cockatoo	VU	10	4	2.01
Blue-billed Duck	PR4	26	3	1.51
Carnaby's Black-Cockatoo	EN	7	3	1.51

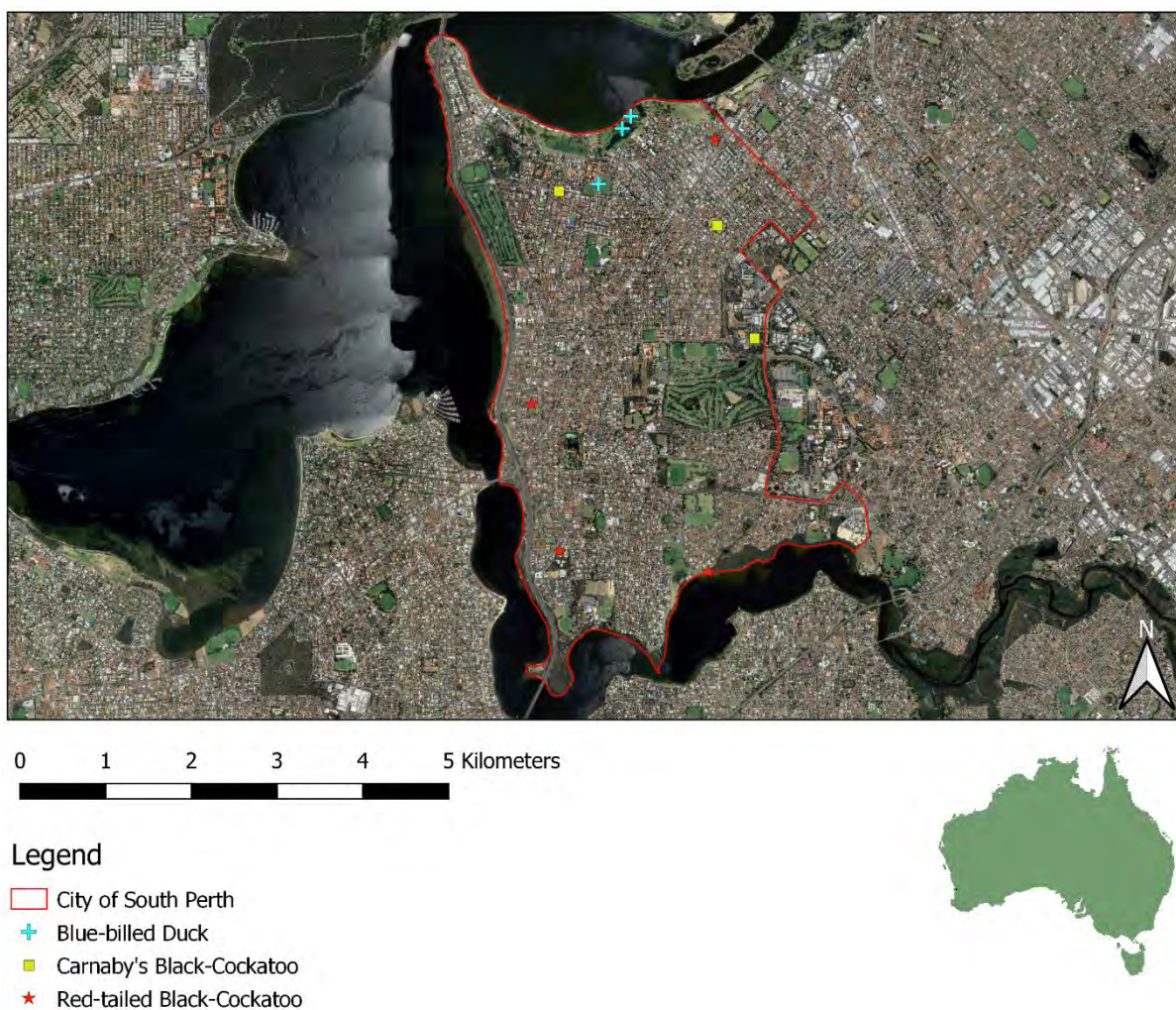


Figure 5: Distribution of the threatened bird species within the City of South Perth boundaries during the 2021 Aussie Backyard Bird Count. Bird observations that were recorded in a single survey overlap due to having the same GPS co-ordinates.

Two threatened parrot species were recorded within the City of South Perth boundaries in 2021:

- Red-tailed Black-Cockatoo (Vulnerable)
- Carnaby's Black-Cockatoo (Endangered)

Numerous native parrot species are threatened in Australia, with each species facing its own set of conservation challenges. However, many parrot species are experiencing population declines due to the lack of reliable food access and suitable nesting sites, particularly mature tree hollows, which are essential for successful breeding. Habitat loss and modification is decreasing the number of suitably sized tree hollows available for threatened parrot species to nest in, and the hollows that do remain are subject to fierce competition. These hollows are often won and subsequently used by more aggressive bird species (e.g., Crimson Rosellas, Galahs, Rainbow Lorikeets and Common Starlings), European honeybees, and marsupials (BirdLife Australia, 2015).

One threatened waterbird species was recorded within the City of South Perth boundaries in 2021:

- Blue-billed Duck (Priority Four)

Numerous Australian waterfowl and wetland-associated birds are threatened due to the continual loss and degradation of wetlands and natural waterways, through practices such as water diversion, river regulation, land clearing and changes in salinity (BirdLife Australia, 2015).

Species-specific Results

Little Corella

Ten Little Corella were counted within the council boundaries during the 2021 Aussie Backyard Bird Count, from 13 surveys, making them the 23rd-most abundant species in the region. Records were distributed evenly across the council area.

The total count and reporting rate of Little Corella was lower than the previous year and 2018, but higher than 2019 (Table 4). The reporting rate for the species (6.53 %) was lower than the state (7.04 %) and national (7.46 %) average. The Little Corella has become a common species in many of Australia's major cities, so a nation-wide comparison is appropriate.

Table 4: Species-specific statistics for the Little Corella showing the total number of surveys conducted in the council, the total number of birds observed and the reporting rate of the species for the years 2018 – 2021 inclusive.

Little Corella	2018	2019	2020	2021
Total surveys (all)	128	189	192	199
Bird Count	39	44	64	52
Reporting Rate (%)	7.81	4.23	10.94	6.53

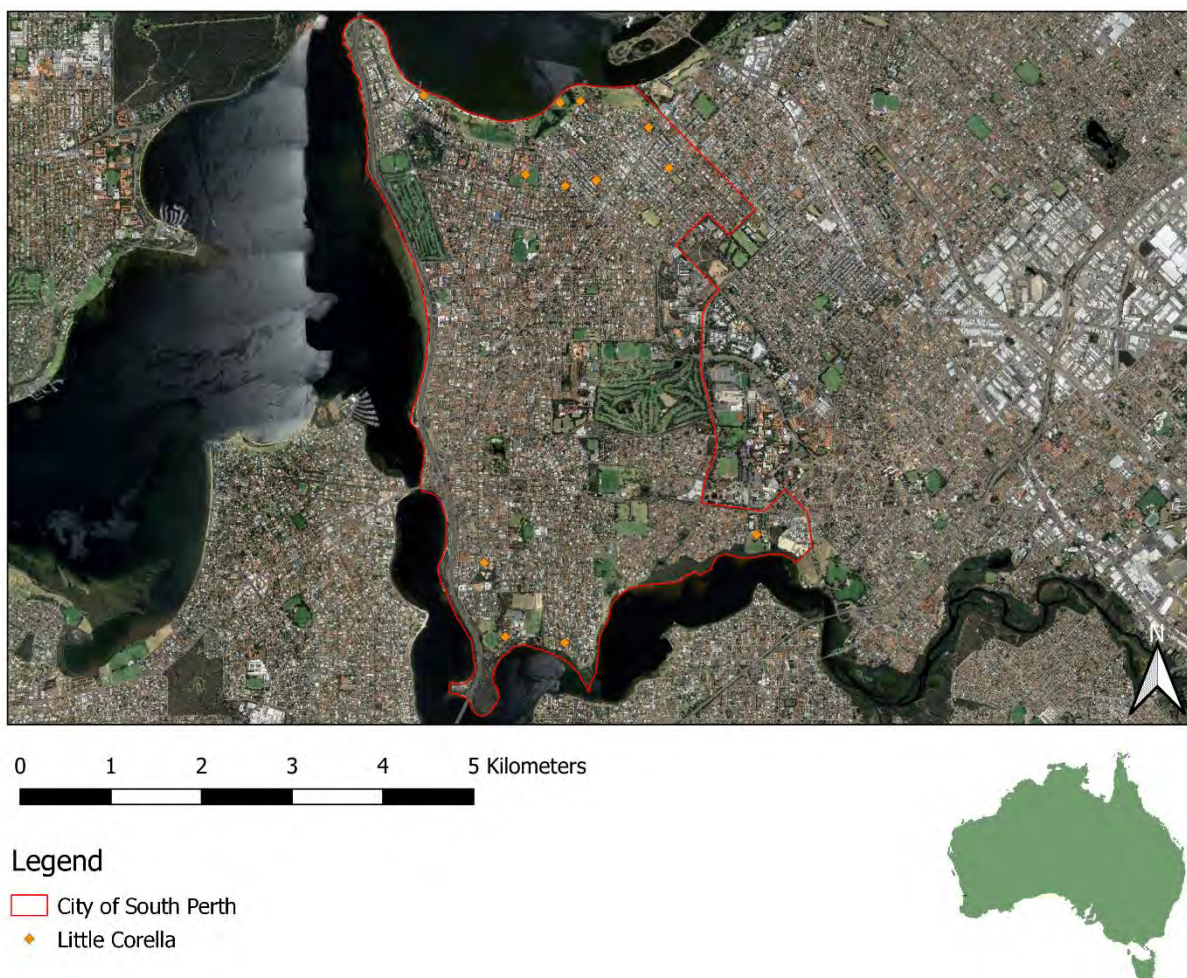


Figure 6: Distribution of Little Corella within the council boundaries (red line) during the 2021 Aussie Backyard Bird Count. Bird observations from the same general area will overlap as they have the same, or similar, GPS coordinates.

Rainbow Lorikeet

866 Rainbow Lorikeet were counted within the council boundaries during the 2021 Aussie Backyard Bird Count, making them the most abundant species in the region. There were 116 records of the species this year, spread throughout the council (Figure 7).

The total number of Rainbow Lorikeet was higher than all previous years, despite having a slightly lower reporting rate (58.29 %) than the previous year (61.49 %) and 2018 (60.16 %) (Table 5). This suggests that birds were recorded in larger flocks in 2021 than in 2020 and 2018. The 2021 council reporting rates are much higher than the state-wide reporting rate of 27.00 %, and higher than the national reporting rate of 42.71 %, despite the species being native to the east coast (and being equally at home in urban regions there). These results may indicate that the City of South Perth has become a stronghold for this locally introduced species.

Table 5: Species-specific statistics for the Rainbow Lorikeet showing the total number of surveys conducted in the council, the total number of birds observed and the reporting rate of the species for the years 2018 – 2021 inclusive.

Rainbow Lorikeet	2018	2019	2020	2021
Total surveys (all)	128	189	192	199
Bird Count	598	621	692	866
Reporting Rate (%)	60.16	50.26	61.49	58.29

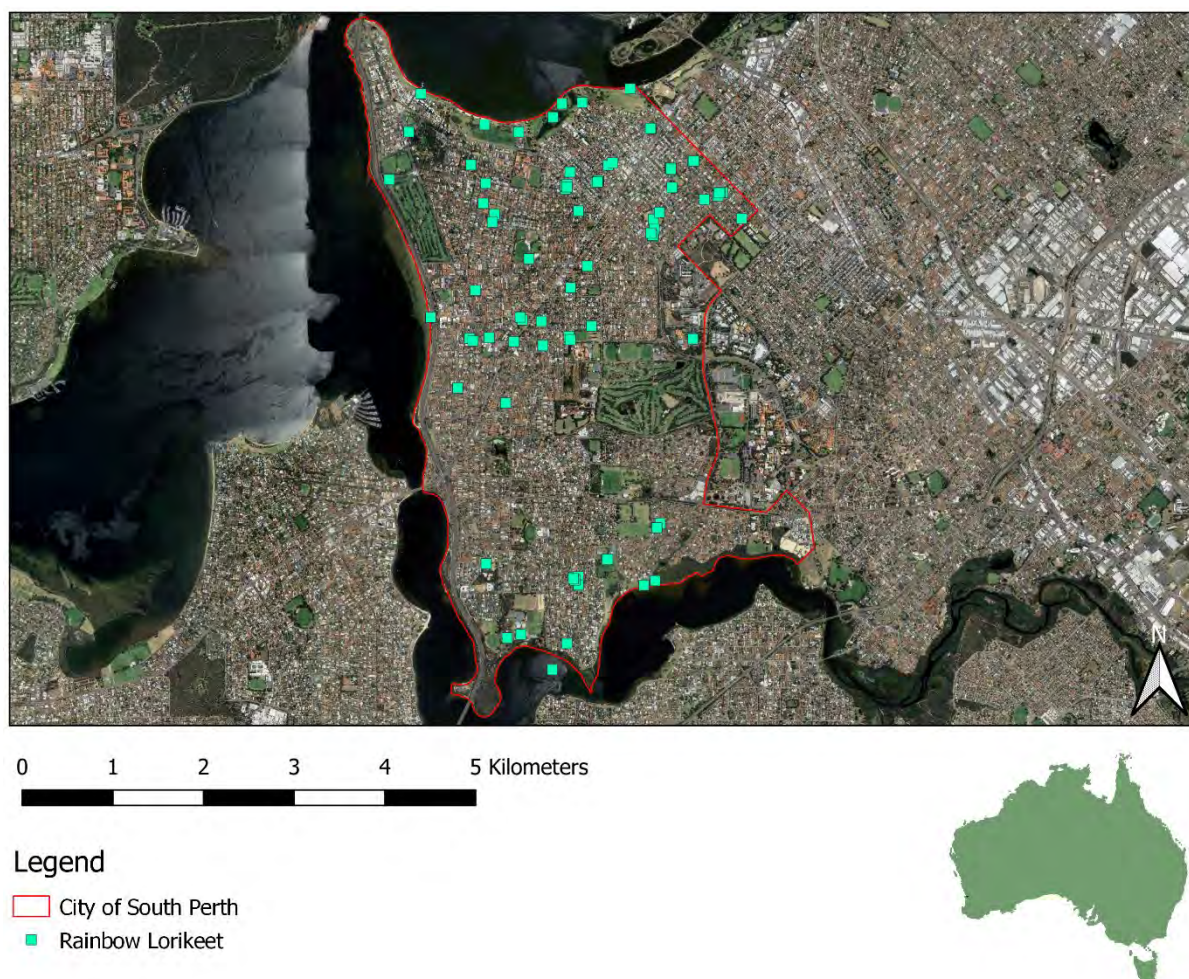


Figure 7: Distribution of Rainbow Lorikeet within the council boundaries (red line) during the 2021 Aussie Backyard Bird Count. Bird observations from the same general area will overlap as they have the same, or similar, GPS coordinates.

Western Corella

54 Western Corella were counted within the council boundaries during the 2021 Aussie Backyard Bird Count, making them the 21st-most abundant species in the region. There were 8 separate records of the species this year (Figure 8).

These records of Western Corella should be treated with a high level of caution as this iconic endemic species is very scarce in suburban Perth. It's likely that local records of Western Corella are misidentified Little or Long-billed Corella. All records of Western Corella in 2021 were from novice or intermediate observers. Additionally, there was a single record of 38 Western Corella from one survey which has inflated the total count considerably. The 2021 state-wide reporting rate for Western Corella was 3.57 %, ranking 37th out of 317 species.

Table 6: Species-specific statistics for the Western Corella showing the total number of surveys conducted in the council, the total number of birds observed and the reporting rate of the species for the years 2018 – 2021 inclusive.

Western Corella	2018	2019	2020	2021
Total surveys (all)	128	189	192	199
Bird Count	10	4	0	54
Reporting Rate (%)	0.78	1.06	0	4.02

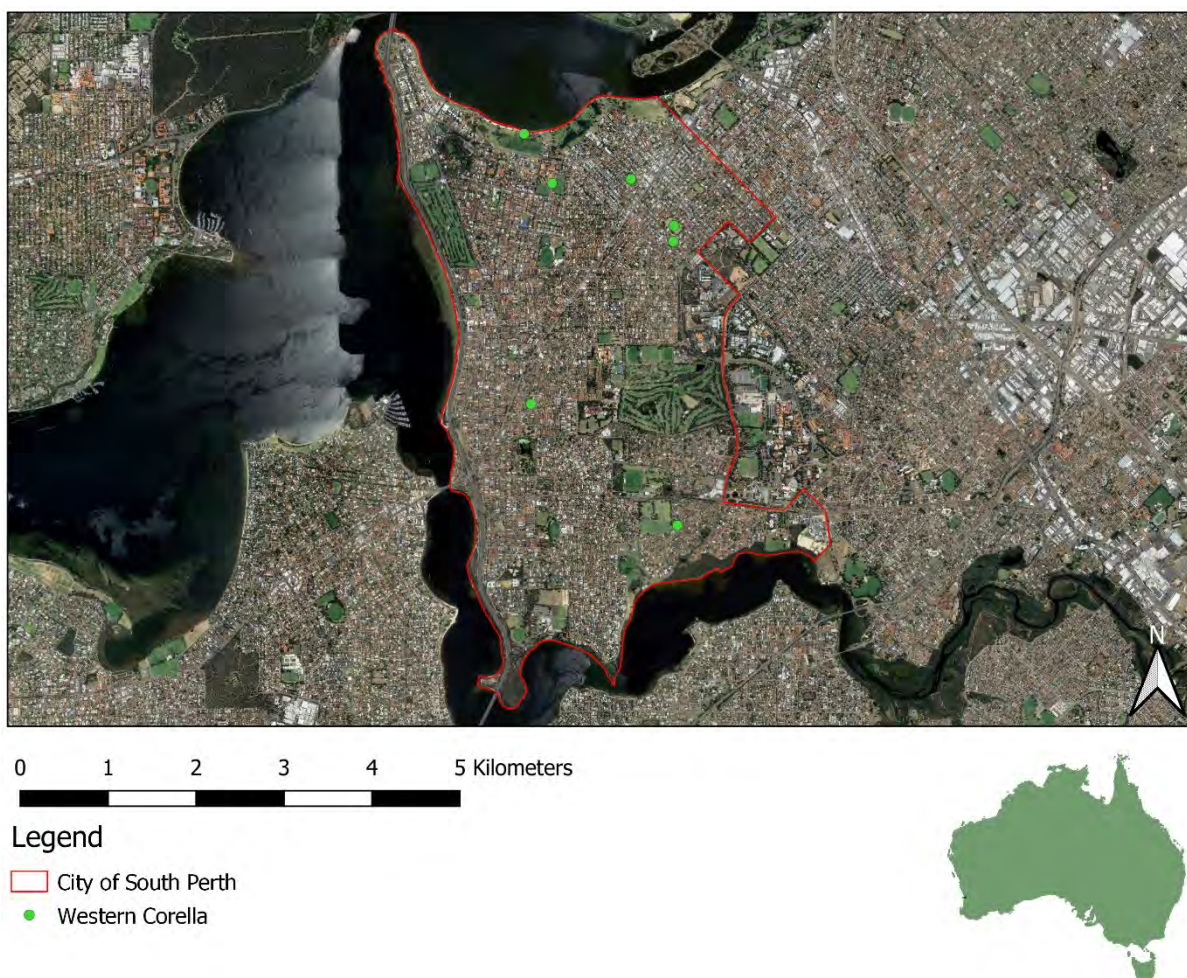


Figure 8: Distribution of Western Corella within the council boundaries (red line) during the 2021 Aussie Backyard Bird Count. Bird observations from the same general area will overlap as they have the same, or similar, GPS coordinates.

Data Limitations

An annual backyard bird survey occurring in gardens across Australia has the potential to be an extremely valuable monitoring tool for Australian bird species and communities. Over years, data collected from regions can be used to detect population trends for target species (both native and introduced), for different species guilds and for bird communities within specific areas. For example, detection of regional and/or national changes in the abundance and distribution of species especially those of management concern, such as downward trends of native species, or upward trends of pest species. Subsequent management actions can therefore be implemented in response to the survey results.

However, some caution must be taken when interpreting the results from such a survey. The backyards that are surveyed will not constitute a random selection of backyards across Australia. Previous analyses of surveys of a similar nature have suggested that participants are more likely to be interested in birds and have more 'bird-friendly' gardens than the country as a whole (Dunn et al., 2005; Spurr, 2012). If this is correct, the number of birds reported from surveyed backyards could be higher than the average number present within a typical Australian backyard. Additionally, bird species that are more likely to utilise habitat associated with backyard gardens are more likely to be recorded, thus represented, in the dataset than species that are specialised to other habitat types such as forests or water bodies. The lack of presence of these species within the dataset does not imply low abundance or scarce distribution but rather their specific habitat was not represented in the survey.

The number of counted birds may also be over-inflated due to the potential for observers to count the same bird/s multiple times during their 20-minute survey period. Furthermore, some regions may have small sample sizes, with some areas being under-represented (or not represented at all) which will influence data interpretation and population trends within an area and across the country. Survey results are also subject to temporal biases and only provide information of bird communities within a one-week period during spring. Hence, the Aussie Backyard Bird Count survey can be said to monitor population and distribution trends within the backyards of participants during the particular time period but results may not necessarily be applicable to Australia as a whole, or to the entire region specifically being analysed.



Furthermore, the GPS co-ordinates of surveys may not be completely accurate due to numerous factors. User error may occur when selecting their location through the app, as the placement of the survey flag may not precisely fall on their true location. However, the submitted co-ordinates will provide the general location where the survey occurred. Excluding user error, the accuracy of the GPS coordinates should fall within 5-50 metres as the app waits for up to 20 seconds to obtain an accurate GPS fix. If a GPS fix can't be found within this time, less accurate coordinates may be recorded. Being indoors, near tall buildings and heavy cloud cover can all lead to obtaining a poor GPS fix, or no GPS at all. Having Wi-Fi on and being near a Wi-Fi hotspot can give a fast, accurate result in most cases, but occasionally this can also result in a wildly inaccurate point in the case of a moving Wi-Fi hotspot. Most of the time this is not a problem or will be picked up by the user when they are looking at the map. If the app can't get a GPS fix and can't use Wi-Fi then it will fall back to using mobile towers, which can reduce accuracy to 1 km or even worse. The accuracy when submitting surveys on the website is much less predictable than the app. Most computers do not have a GPS so it has to rely on either Wi-Fi or the IP address. Wi-Fi can be quite accurate, but IP address-based locations are very rough – it basically just identifies which city you live in. If you are in a rural area sometimes it will just put you in the nearest major city/centre.

The skill and experience of observers conducting backyard surveys in correctly identifying birds will vary and also influence the validity of the survey results. The Aussie Backyard Bird Count app provided the first instance of minimising incorrect species identifications by clearly indicating to the user if a species that they had selected to include on their checklist was “unlikely based on survey location”. Once the survey data was collected in the BirdLife Australia office, data was further vetted based on species distribution information. While every effort was undertaken to vet the survey data of mis-identified birds, it is still probable that some misidentifications will be included in the dataset and caution is needed when analysing the results. However, a previous study has implied that identification of species occurring in participants' backyards are more likely to be correct as these species are familiar to the observer and are likely to be relatively common species (Cannon, 1999).

There's always more we can be doing to protect and encourage birds – which is why you're invited to get involved with some of our other programs.



Birds in Backyards

With over 90% of Australians living in urban and regional centres, for many people, the only place where they connect with the natural world is in their own backyards. The loss of urban bird diversity has both ecological and human/cultural consequences. The Birds in Backyards Program builds knowledge, skills and practical support to develop action-oriented responses to the decline of bird diversity.

Underpinned by bird monitoring and habitat assessments, the Birds in Backyards Program encourages people to take conservation action for birds wherever they enjoy them – home, school, work, or local parks and reserves. We want people taking action for birds, informed by their own data.

The ultimate goal of The Birds in Backyards Program is a diverse urban native bird community, achieved by behavioural change through action research, education for sustainability and advocacy. Local councils can partner with The Birds in Backyards Program to achieve education and conservation outcomes for our urban birds – let's get our communities taking action together!



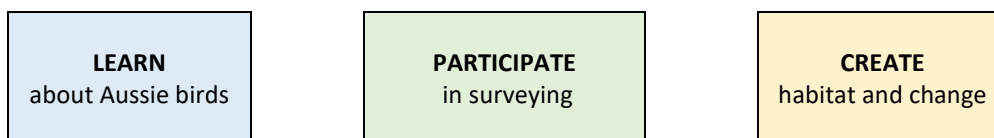
What Birds in Backyards Can Offer

We are fortunate in Australia to have such a diverse and colourful range of native birds that live amongst us in the urban landscape. These birds provide an opportunity for people to appreciate and connect with wildlife daily and increasingly, research is linking biodiversity with a person's quality of life. **In Britain, bird life is so valued that the UK government uses information about their wild birds as a measure of the health of the environment as a whole.** This environmental indicator is published alongside more familiar economic and social indicators and reinforces the point that the maintenance of biodiversity is a key part of sustainability.

But our urban bird communities in Australia are changing. Small birds, like spinebills and fairy-wrens, were once more common in parks or gardens are now disappearing and being replaced by large and aggressive species like the Noisy Miner and Pied Currawong. Changes in our gardening practices and increasing urbanisation seem to be largely responsible for this – the simplification of our gardens and the loss of shrubs has removed important food, shelter and nesting locations. If vegetation in gardens could be managed to promote a diversity of native bird species, it will provide a valuable secondary habitat for conserving native bird populations, particularly as natural habitat continues to be destroyed. In the urban landscape, engaging with the wider community is necessary in order to turn around this habitat loss and provides a unique opportunity to engage large numbers of the general community actively in the conservation of biodiversity.

Birds in Backyards encourages people to learn in their own space in order to establish an initial connection with the natural world in a somewhat unnatural setting. It is not simply about providing people with information about birds in their local area, but it is about building on that initial interest and encouraging people to learn more and then take action for birds.

Our program takes a three-pronged approach:



Birds in Backyards can work with your council to provide resources or collaborate on projects. For example:

- Hard copy materials such as A4 Backyard Birds of 2019 posters (that can be made available in 6 languages), bookmarks, bird trading cards, gardening advice brochures
- Train the Trainer workshops and associated materials or direct public workshops
- Ongoing monitoring programs for participants via our Backyard Bird surveys with feedback provided
- Children's engagement activities and school resources – ask us about our Birds in Schools programs. Options available from fully supported to teacher-delivered

For more information, please contact Urban Birds Program Manager Dr. Holly Parsons – holly.parsons@birdlife.org.au

Rodent poisons are killing birds – How your Council can help



While rodenticides are poisons designed to kill pest mice and rats, impact is much more far-reaching than just these pests. **Second generation anticoagulant rodenticides (SGAR) poisons in particular are the worst.**

SGARs work by causing internal bleeding, but when rats and mice eat baits poisoned with SGARs, they become poisonous themselves, harming, and even killing other animals and birds that eat them. Studies in Australia have found harmful, and often fatal levels of SGARs in dead birds of prey, including Southern Boobooks, Wedge-tailed Eagles, and Powerful Owls.

Evidence is also growing that suggests that rat poison is not only being eaten by the targeted rodents, but by reptiles (which have a very high tolerance), invertebrates and possums. This all means that **these poisons are moving far beyond the rodents they are targeting and impacting our native wildlife.**

These SGAR poisons have been restricted from public sale in parts of the US, Canada and European Union.

But Australian regulations lag behind and SGARs – including Talon, Fast Action RatSak, and The Big Cheese Fast Action brands – are available to purchase from supermarkets and hardware shops throughout Australia.

What can Local Government do?

With responsibility for the maintenance of numerous properties, local government can reduce the amount of these deadly poisons entering the environment by changing your pest control practices and informing your residents. A number of local government administrations across the country have already taken action to become 'Owl-friendly' regions.

You can take action in your local government area by:

- Specifying preferred rodenticide treatments in commercial pest operator contracts (See next page for alternatives)
- Investigating conditions that could be included to assist with rat control in demolition licences;
- Distributing information about the impacts of second-generation rodenticides on birds and other wildlife to your residents.

Change your pest control practices

Taking the lead and employing wildlife-friendly rodent control on all council-managed properties is the best way to demonstrate to your community that the council is committed to protecting wildlife from rat poisons. If poison baits are required, place requirements on pest control contractors to only use first generation rodenticide products or suggest other alternatives. Look for active ingredients that are less harmful such as Warfarin (RatSak Double-strength) and Coumatetralyl (Racumin) and use products in locked bait stations.

What are the alternatives to poison?

There are lots of ways to manage rat and mice that reduce the need for pest control interventions and don't involve poison. Local councils can provide information to businesses and residents on more responsible choices that will also meet local government health standards. In domestic settings, non-poison pest control – such as snap traps should be the first choice.

Property managers and residents can also be encouraged to:

- seal potential roof/wall cavity access points that rodents might be using
- pick up any fallen fruit,
- ensure excess pet food isn't accessible,
- rodent-proof chook pens and aviaries,
- replace rat-friendly palms with owl-friendly natives, and
- tidy up garden waste and limit access to compost heaps

Encouraging native predators also assists to reduce rodent populations. Tactics to do this include planting native trees, and installing nest boxes-for some birds of prey like Southern Boobooks to use as well as native prey like possums.

[You can see a list of rodenticide products available in Australia here.](#)

Would your Council like to become a Hero in our campaign?

We are encouraging local Councils to become 'Heroes' our campaign by taking the actions detailed above. For more information get in touch with us: conservation@birdlife.org.au



Birds in Schools



Birds in Schools is a free environmental education program designed by BirdLife Australia and its Urban Birds Program. Available online through BirdLife's e-learning platform, Birds in Schools enables teachers right across Australia to deliver education and action for local birds with support from BirdLife Australia.

Birds in Schools engages students in the scientific process through investigation and monitoring the birds and habitat of their school grounds. Students use their own observational skills and ideas to develop and implement an action plan to help their local bird life. Action plans may include planting native plants, installing nest boxes or bird baths, or delivering education campaigns in their school or local neighbourhood.

Birds in Schools offers students and teachers:

- The chance to become citizen scientists and actively participate in the scientific process.
- A valuable experience of connection with, and improved understanding of, the natural world.
- An opportunity to investigate real-life issues, reflect and problem solve and develop action-oriented responses to sustainability challenges.
- A supported, curriculum-linked teaching resource for Years 3 to 6, Stage 2-3, including lesson plans and resources, that builds students' knowledge and skills.
- A way to prioritise biodiversity within the school, with greener spaces improving the wellbeing of students too.
- The opportunity to collaborate and partner with the local school community and local council.



Lessons and support

Birds in Schools consists of 10 lessons for students from Years 3 to 6, through which students:

- Conduct bird and habitat surveys and contribute survey data to BirdLife's database, Birdata.
- Learn about local birds, biodiversity, and habitats.
- Analyse surveys and make recommendations based on their own research.
- Develop and implement an action plan to improve habitat for birds.

Support for teachers:

- Lesson plans and accompanying resources supporting teachers to deliver content.
- Assessment for students to easily measure learning.
- Online teacher professional development and online lessons for students.
- Support from a BirdLife staff member including assistance and advice.

How much time does it take?

The project is designed to allow schools flexibility of delivery. Schools can choose to deliver Birds in Schools over one term, two terms or more. There are 10 lessons with each lesson designed to fit into a 50 minute to hour-long session (although some activities will extend outside these times, particularly the action). The program is flexible and we encourage you to adapt it to meet your needs, for example, you do not have to deliver every lesson and we can assist with program adaptation if required.

Who teaches the students?

Teachers deliver the lessons and are provided with an online professional training session with Birdlife to develop the technical skills and knowledge required to deliver the program, including in bird identification, conducting surveys, using Birdata and what actions help birds. A BirdLife Australia staff member delivers online Q&A sessions for students and are available for assistance and advice to support teachers.

How much does it cost?

The program is free for schools to take part in. Schools may wish to secure grants or fundraise to enable the completion of action plans, such as planting native plants or installing nest boxes or bird baths.



Find out more

Website:

birdlife.org.au/projects/urban-birds/birds-in-schools-project

Email:

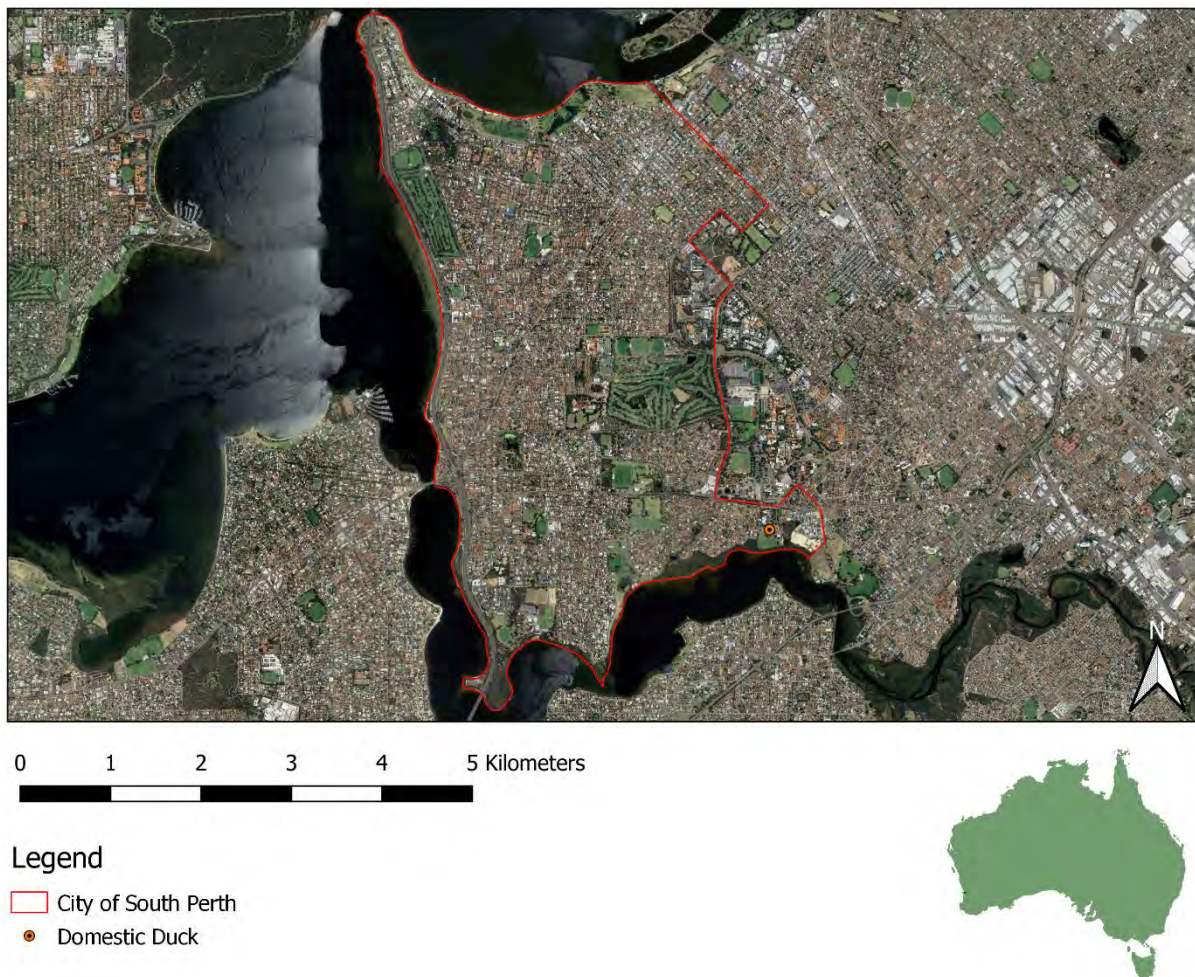
Alexandra Johnson,
Birds in Schools Project Officer
alexandra.johnson@birdlife.org.au

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Appendix One – Introduced Species Maps

The individual distribution maps for each introduced species recorded within council boundaries during the 2021 Aussie Backyard Bird Count, in alphabetical order, are presented in Appendix One. No figure captions have been provided, as the format is identical to that of Figure 4.



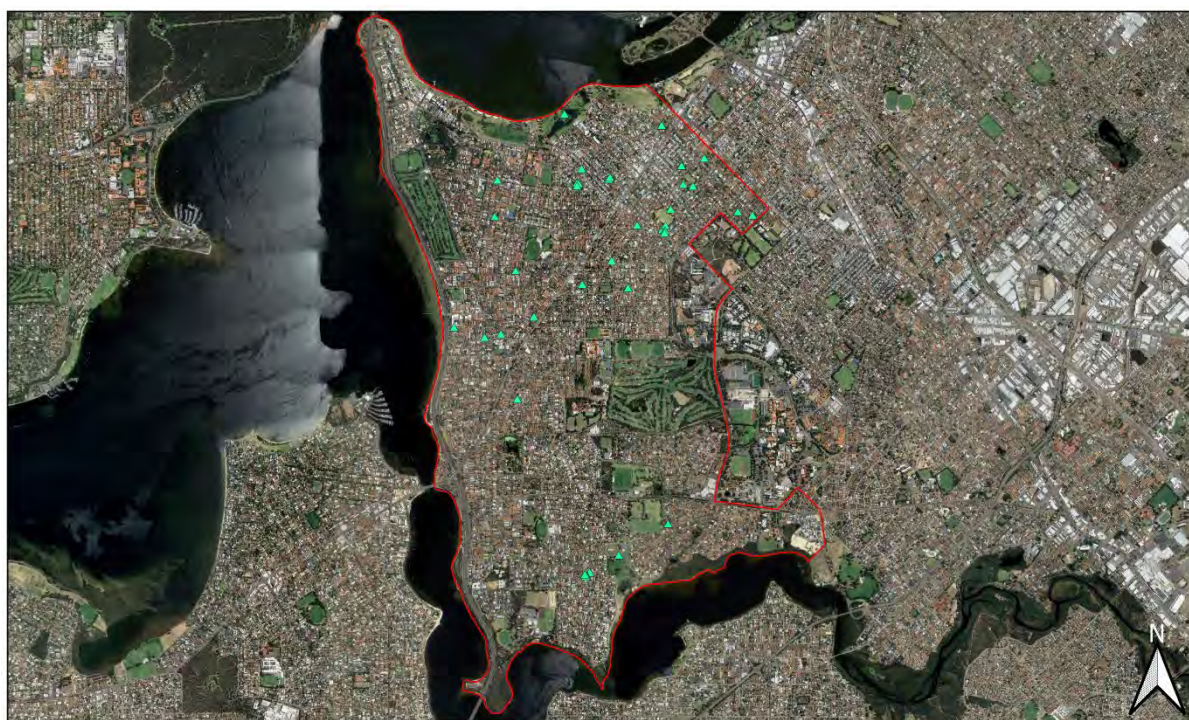


0 1 2 3 4 5 Kilometers

Legend



- City of South Perth
- European Goldfinch





0 1 2 3 4 5 Kilometers

Legend


-  City of South Perth
-  Laughing Dove





0 1 2 3 4 5 Kilometers

Legend

-  City of South Perth
-  Laughing Kookaburra





0 1 2 3 4 5 Kilometers

Legend

- City of South Perth
- ◆ Little Corella



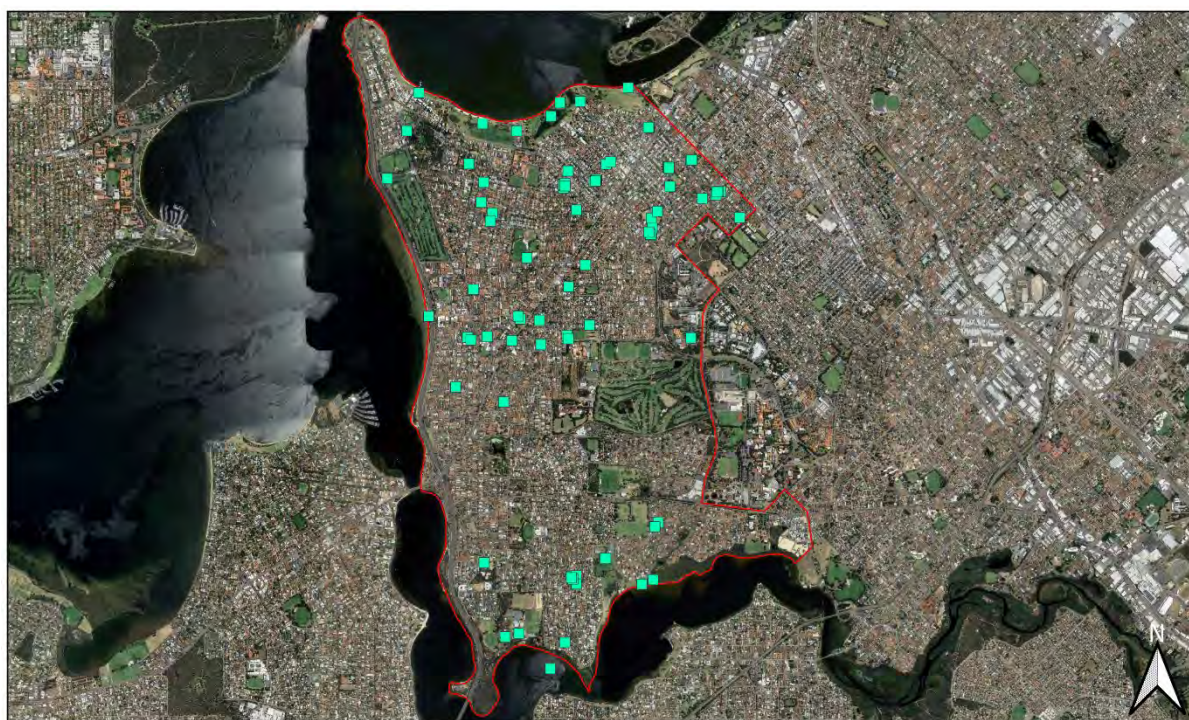


0 1 2 3 4 5 Kilometers

Legend



- City of South Perth
- ◆ Long-billed Corella





0 1 2 3 4 5 Kilometers

Legend

-  City of South Perth
-  Rainbow Lorikeet





0 1 2 3 4 5 Kilometers

Legend

- City of South Perth
- Rock Dove





0 1 2 3 4 5 Kilometers

Legend

- City of South Perth
- * Spotted Dove

