Environmental Science and Policy Committee

Meeting will be held in the Council Chamber, Level 2, Philip Laing House, 144 Rattray Street, Dunedin

This meeting will be livestreamed to the ORC Official YouTube Channel



Members: Cr Lloyd McCall (Co-Chair) Mr Edward Ellison (Co-Chair) Ms Karen Coutts Cr Alexa Forbes Cr Gary Kelliher Cr Michael Laws Cr Kevin Malcolm Cr Tim Mepham Cr Andrew Noone Cr Gretchen Robertson Cr Bryan Scott Cr Alan Somerville Cr Elliot Weir Cr Kate Wilson

Senior Officer: Richard Saunders, Chief Executive

Meeting Support: Kylie Darragh, Governance Support Officer

26 September 2024 09:00 AM

Agenda Topic

- 1. WELCOME
- 2. APOLOGIES

No apologies received at time of publication.

3. PUBLIC FORUM

At the time of publishing no requests to speak had been received.

4. CONFIRMATION OF AGENDA

Note: Any additions must be approved by resolution with an explanation as to why they cannot be delayed until a future meeting.

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5. DECLARATION OF INTERESTS

Members are reminded of the need to stand aside from decision-making when a conflict arises between their role as an elected representative and any private or other external interest they might have. The Register of Councillors Pecuniary Interests are published on the ORC website.

6. PRESENTATIONS

At the time of printing no requests to present had been received.

7. CONFIRMATION OF MINUTES 3 That the minutes of the Environmental Science and Policy Meeting of 27 June 2024 be received and confirmed as a true and accurate record. 7.1 Minutes of Environmental Science and Policy Committee 3

8. OPEN ACTIONS FROM THE RESOLUTIONS OF THE COMMITTEE

There are currently no open actions for this committee.

MAT	MATTERS FOR CONSIDERATION							
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10. CLOSURE

9.



Environmental Science and Policy Committee MINUTES

Minutes of an ordinary meeting of the Environmental Policy and Science Committee held in the Council Chamber, Level 2 Philip Laing House, 144 Rattray Street, Dunedin on Thursday 27 June 2024, commencing at 11:15 AM.

PRESENT	
Cr Lloyd McCall	(Chairperson)
Cr Alexa Forbes	
Cr Gary Kelliher	
Cr Michael Laws	(online)
Cr Kevin Malcolm	
Cr Tim Mepham	
Cr Andrew Noone	
Cr Gretchen Robertson	
Cr Bryan Scott	
Cr Alan Somerville	
Cr Elliot Weir	
Cr Kate Wilson	

1. WELCOME

Chair McCall welcomed Councillors, members of the public and staff to the meeting at 11:15am. Staff present included Richard Saunders (Chief Executive), Anita Dawe (GM Policy and Science), Joanna Gilroy (Acting GM Regulatory), Amanda Vercoe (GM Governance, Culture and Customer), Kylie Darragh (Governance Support), and Tom Dyer (Manager, Science) Sarah Harrison (Scientist - Air Quality), Jason Augspurger (Senior Scientist Freshwater Ecology), Scott Jarvie (Scientist, Biodiversity), Ben Mackey (Team Leader – Land) Mark Crawford (Scientist - Land and Soil) Helen Trotter (Water Quality Scientist).

2. APOLOGIES

Apologies for Edward Ellison and Karen Coutts were noted. Also noted were apologies for Cr Mepham and Cr Forbes for early departures.

3. PUBLIC FORUM

There were no requests to speak at this meeting.

4. CONFIRMATION OF AGENDA

Recommendation moved Cr Wilson, Cr McCall seconded that:

The agenda be confirmed as published.

5. DECLARATIONS OF INTERESTS

The Chair reminded Councillors of the need to stand aside if a conflict of interest arises. No changes to Councillor Declarations of Interests were noted.

6. PRESENTATIONS

No presentations were held.

7. CONFIRMATION OF MINUTES

Resolution ESP24-104: Cr McCall Moved, Cr Somerville Seconded

That the minutes of the Environmental Science and Policy Committee meeting held on 20 March 2024 be confirmed as a true and accurate record including a correction. **MOTION CARRIED**

8. OPEN ACTIONS FROM RESOLUTIONS OF THE COMMITTEE

There are currently no open actions for this committee.

9. MATTERS FOR CONSIDERATION

9.1. SOE Air Quality Trends

(YouTube:00:10:55) This report was brought to the committee to share the State of the Environment (SOE) report: Air quality trends 2005 – 2023 and to briefly summarise the SOE reports' key findings. Sarah Harrison (Scientist, Air Quality) Tom Dyer (Manager, Science) and Anita Dawe (GM Policy and Science) were available to respond to questions.

Resolution ESP24-106: Cr Wilson Moved, Cr Forbes Seconded

That the Environmental Science & Policy Committee:

1) Notes this report.

MOTION CARRIED

9.2. Annual Water Quality Report 2023

(YouTube 00:35:22) The purpose of this report was to present the Water Quality and Biomonitoring report 2018-2023 to the Committee. The report presented the most recent results of State of the Environment (SoE) monitoring undertaken to inform attribute tables in Appendix 2A and Appendix 2B of the National Policy Statement for Freshwater Management (NPSFM, 2020).. Jason Augspurger (Senior Scientist Freshwater Ecology), Anita Dawe (GM Policy and Science), Tom Dyer (Manager, Science) were available to respond to questions on the report which was noted to still be in draft with some proofing required.

Resolution ESP24-107: Cr Robertson Moved, Cr Wilson Seconded

That the Environmental Science & Policy Committee:

1) Notes this report.

MOTION CARRIED

At 12:30pm the committee adjourned for lunch and reconvened at 1:05pm. Cr Mepham left the meeting at 12:30pm. Cr Laws left the meeting at 1:35pm.

9.3. Regional conservation statuses in Otago

(YouTube 02:20:00) This paper set out work currently underway in the biodiversity area at ORC to document indigenous biodiversity. It overviewed the development of regional threat classifications and included details of regional conservation statuses for the species groups of indigenous vascular plants and amphibians in Otago. Scott Jarvie (Scientist, Biodiversity), Tom Dyer (Manager, Science) and Anita Dawe (GM Policy and Science) were available to respond to questions.

Resolution ESP24-108: Cr Weir Moved, Cr Wilson Seconded

That the Environmental Science & Policy Committee:

- 1) Notes this report.
- **2) Notes** that the regional threat assessment for other species (taxonomic) groups will continue as part of the biodiversity work programme.

MOTION CARRIED

Environmental Science and Policy Committee - 27 June 2024

Cr Forbes left the meeting at 1:51pm.

9.4. Land & Soil Monitoring Update

(YouTube 02:38:46) This report provided an annual update on the Land and Soil work programme. Ben Mackey (Team Leader – Land) Mark Crawford (Scientist - Land and Soil) Anita Dawe (GM Policy and Science) and Tom Dyer (Manager, Science) were available to respond to questions.

Resolution ESP24-109: Cr Robertson Moved, Cr Malcolm Seconded

That the Environmental Science & Policy Committee:

1) Notes this report.

MOTION CARRIED

9.5. Contact Recreation 2024 Annual Report Card

(YouTube 03:07:40) The contact recreation programme monitors faecal indicator bacteria and potentially toxic cyanobacteria at 20 freshwater and 16 coastal sites across the Otago Region to assess risks to human health during the summer bathing period. This report provided an overview of the programme and included a report card summarising the results of weekly monitoring undertaken during the 2023-24 season. Helen Trotter (Water Quality Scientist) Anita Dawe (GM Policy and Science) and Tom Dyer (Manager, Science) were available to respond to questions on the report.

Resolution ESP24-110: Cr Weir Moved, Cr Wilson Seconded

That the Environmental Science & Policy Committee:

1) Notes this report.

MOTION CARRIED

10. CLOSURE

There was no further business and Chair McCall declared the meeting closed at 2:33pm.

Chairperson

Date

9.1. Regional conservation status of birds in Otago								
Prepared for:	Environmental Science and Policy Committee							
Report No.	GOV2424							
Activity:	Governance Report							
Author:	Scott Jarvie, Scientist - Biodiversity							
Endorsed by:	Tom Dyer, General Manager Science and Resilience							
Date:	26 September 2024							

PURPOSE

[1] This paper documents the regional conservation status of birds in the Otago Region.

EXECUTIVE SUMMARY

- [2] This paper outlines regional conservation statuses and their role in monitoring biodiversity and biosecurity.
- [3] The first report on the regional conservation status of birds in Otago is presented.
- [4] A total of 283 bird species were assessed. Of these birds 32 were Regionally Threatened, four were Regionally At Risk, 135 were Regionally Non-resident Native, 22 were Regionally Not Threatened, 25 were Regionally Introduced and Naturalised, and 10 were Regionally Data Deficient. Three species were translocated to the region for conservation benefit; two of these were reintroductions while one was an introduction. Ten species were also Regionally Introduced, Not Established (i.e., where a release is documented but with no self-sustaining population) and two were Regionally Not Assessed (i.e., have been assessed in previous national assessments but are currently not assessed). The number of regionally extinct bird species is 43.
- [5] The information in threat assessments for birds can inform biodiversity and biosecurity management in Otago.

RECOMMENDATION

That the Council:

- 1) Notes this report.
- 2) **Notes** that regional threat assessment for other species groups will continue as part of the terrestrial ecology work programme.

BACKGROUND

- [6] Regional councils have statutory obligations to protect and maintain indigenous biodiversity under the Resource Management Act 1991 (RMA).
- [7] Threat classifications play a key role in biosecurity and biosecurity management. The New Zealand Threat Classification System (NZTCS) is a national system to assess the conservation status of species found in the wild in Aotearoa New Zealand. The system is administered by the Department of Conservation Te Papa Atawhai (DOC) on behalf of all New Zealanders and complements the International Union for Conservation of Nature (IUCN) Red List system.

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- [8] The NZTCS and IUCN use rules-based approach to assess the risk of extinction based on estimates of population size and trend. These national and international assessments are used to inform conservation action, target resources, and monitor biodiversity trends and conservation effectiveness.
- [9] Regional council ecologists from Te Uru Kahika (Regional and Unitary Councils Aotearoa) are working with DOC to develop a standardised methodology for regional threat assessments¹. The methodology uses a similar rule-based approach to the NZTCS but takes the size of each region into account for the assessments. Regional threat assessments complement both the NZTCS and the IUCN Red List system.
- [10] Qualifiers in threat assessments provide additional information about species. They can help in understanding the basis for assessments and can provide useful information to support management decisions.
- [11] Regional threat assessments help local authorities manage and protect biodiversity within their regions. For example, knowledge of threatened species present at a site is of particular importance for consenting processes and systematic conservation planning.
- [12] Regional conservation statuses can also guide decisions on where local authorities fund biosecurity and/or biodiversity management. Information regarding the species present, as well as their threat status, can aid decision-making processes. For example, identification of priority sites and guidance on management actions should happen to ensure appropriate activities are part of restoration programmes.
- [13] The ORC has completed regional conservation status assessments for amphibians, bats, indigenous vascular plants, and reptiles².

DISCUSSION

- [14] The fifth in a series of regional conservation status reports has recently been completed this time focusing on birds in Otago.
- [15] For bird species, an expert panel and an ecologist from the ORC assessed 283 species in, or near, Otago.
- [16] The number of Regionally Threatened bird species was 32 (Critical = 9, Regionally Endangered = 6, Regionally Threatened = 17), 4 as Regionally At Risk (Regionally Declining = 3; Regionally Recovering = 1), 135 as Regionally Non-resident Native (Regional Migrant = 36; Regional Vagrant = 97; Regional Coloniser = 2), 22 as Regionally Not Threatened, 10 as Regionally Data Deficient, and 25 as Introduced and Naturalised. Three species were translocated to the region for their conservation benefit: two were reintroductions while one was an assisted migration. Ten species are Introduced, Not Established, and two were Not Assessed. An additional 43 species are regionally extinct.

¹ A manual to document the methodology will be published as a national guideline. Dr Jarvie will be a co-author of the manual.

² Amphibians and indigenous vascular plants: <u>https://www.orc.govt.nz/media/beugmwjc/20240627-esp-agenda.pdf;</u> bats: <u>https://www.orc.govt.nz/media/15330/2023-10-11-esp-agenda.pdf;</u> reptiles: <u>https://www.orc.govt.nz/media/14694/minutes-environmental-science-and-policy-20230426.pdf</u>.

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- [17] Otago is a national stronghold for eight bird species, meaning more than 20 percent of the national population for each species is in the region. Of these bird species, only one species was a regional endemic, the Otago shag/matapo, meaning they breed nowhere else.
- [18] Two bird species breed in one location in the region: the northern royal albatross/toroa, which was first recorded breeding at Taiaroa Head/Pukekura in 1938 and number 242 mature individuals as of 2023, and Haast tokoeka, which were released at Orokonui Ecosanctuary Te Korowai o Mihiwaka, near Dunedin, with ~35 mature individuals.
- [19] Of resident native bird species 25 are adversely affected, or predicted to be adversely affected, by long-term climate trends and/or extreme climatic events. All the bird species with the climate impact qualifier are in the Regionally Threatened or Regionally At Risk categories, except for two species. The main habitat types for these birds are coastal or marine, followed by wetland or riverine, and finally forest, grassland or shrubland.
- [20] For the 17 native bird species likely to move to a worse conservation status if current management ceases, such as if ongoing invasive mammal predator control by DOC or community groups stopped, all of them were either Regionally Threatened or had been translocated to the region for their conservation benefit. Six of these species were Regionally Critical the most severely threatened status. Most of these were because they had a population size less than 250 mature individuals, except for the southern rock wren/pīwauwau and yellow-eyed penguin/hoiho with a population of 250–1000 mature individuals but population trends decreasing by 50–70 % and trend decreasing by 70 %, respectively. The southern rock wren/pīwauwau trend was based over 10.5 years (3 generations) while the yellow-eyed penguin/hoiho over 15 years.
- [21] When a new species is described, the name is permanently linked to a single 'type collection'. Any interpretation or re-interpretation of the species is therefore dependent on type collections. In turn the type locality, and any population of the organism present at the type locality, becomes an important asset. The number of species in Otago with type localities was 13. There were four living species with type localities: Australasian crested grebe/pūteketeke, fairy prion/tītī wainui, Fiordland crested penguin/tawaki, and Otago shag/matapo. Nine extinct species have their type locality in the region, such as the South Island laugh owl/whēkau, South Island adzebill/ngutu hahau, and South Island giant moa/moa nunui.
- [22] A total of 98 native bird species were recorded in Otago's Territorial Authorities, excluding those species that are Regionally Vagrants and Extinct; this also means introduced bird species are not included. The territorial authority with the most species is Dunedin City Council (62), followed by Clutha District Council (56), then Waitaki District Council (54; Otago part only), Queenstown Lakes District Council (51), and Central Otago District Council (39).
- [23] The number of living native bird species recorded in Otago's Coastal Marine area was 68, excluding Regional Vagrants, highlighting the importance of Otago's coastal and marine space to indigenous biodiversity. All Regional Migrants were recorded in or near the Coastal Marine area; they were all seabirds except for the white heron/kōtuku.

OPTIONS

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[24] This report is for noting and therefore does not present options.

CONSIDERATIONS

Strategic Framework and Policy Considerations

[25] The biodiversity programme contributes towards the *Healthy water, soil and coast,* and *Healthy diverse ecosystems* strategic priorities. The work outlined in this paper aligns with visions in ORC's Biodiversity Strategy Plan 2018: Our Living Treasure | Tō tatou Koiora Taoka and with visions and outcomes in the Biodiversity Action Plan Te Mahi hei Tiaki i te Koiora 2019 –2024.

Financial Considerations

[26] The process to run regional threat assessments are budgeted and are a planned activity.

Significance and Engagement

[27] Engagement is ongoing with mana whenua, government agencies, stakeholders, and landowners who work in biodiversity management, as well as on a project-by-project basis to undertake subsequent surveys and monitoring.

Legislative and Risk Considerations

[28] ORC has legislative responsibilities to protect significant habitats of indigenous fauna as a matter of national importance, as well as to maintain indigenous biodiversity. These threat assessments enable the ORC to be understand the status and trends of species and ecosystems in the region.

Climate Change Considerations

[29] The report assessed whether the birds are vulnerable to climate change.

Communications Considerations

- [30] The regional conservation statuses have a dedicated ORC webpage where the report and accompanying spreadsheets are provided. The reports are also provided to members of the Otago Biodiversity Forum, whose memberships include mana whenua, territorial authorities, and other agencies. Accompanying the publication of most reports is a media release.
- [31] Using information from the regional conservation status ORC works with taxonomic experts and Tūhura Otago Museum to develop educational resources. This includes the development of guides and/or posters to make information more accessible to members of the public and can be used in community science initiatives.

NEXT STEPS

- [32] Regional threat assessments for other groups will continue as part of the biodiversity work programme.
- [33] Assessments have started for selected species of fungi and Onchyophora (peripatus, or velvet worms)
- [34] Work is underway to compile lists for other species groups, including freshwater fish, marine mammals, mosses, liverworts and hornworts, and lichens. The compilation of such works is a precursor to conducting a regional conservation status for a species group. Mana whenua have been consulted and are particularly interested to have

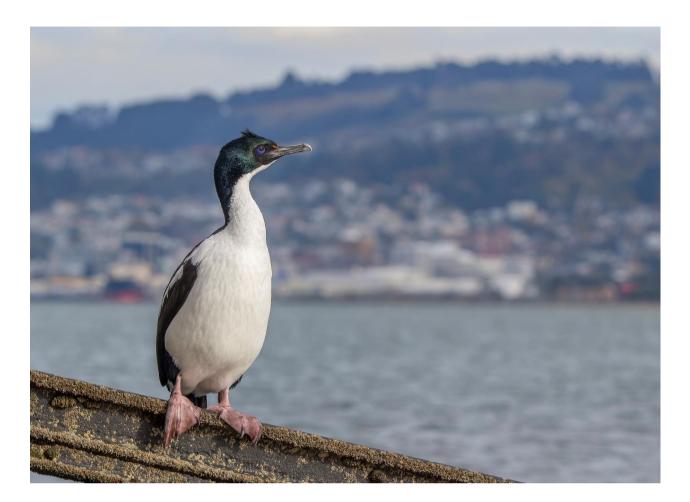
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completed assessments for the freshwater fish and mammal mammals, in addition to those already done for reptiles, bats, birds, and indigenous vascular plants.

[35] Publication of the manual for the regional conservation status methodology. The manual is ongoing peer review and will be released by DOC.

ATTACHMENTS

1. Conservation status of bird species in Otago [9.1.1 - 134 pages]



Scott Jarvie, Bruce McKinlay, Dawn Palmer, Nicolas J. Rawlence, Oscar Thomas

September 2024

Otago Threat Classification Series 6



orc.govt.nz



September 2024 -

Otago Threat Classification Series 6

Scott Jarvie Otago Regional Council

Bruce McKinlay Department of Conservation | Te Papa Atawhai

Dawn Palmer Natural Solutions for Nature Ltd

Nicolas J. Rawlence

Te Tari Mātai Kararehe | Department of Zoology, Ōtākou Whakaihu Waka | University of Otago

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Otago Regional Council

Otago Threat Classification Series 6

ISSN 2816-0983 (web PDF) ISBN 978-1-7385867-4-5 (web PDF)

Otago Threat Classification Series is a scientific monograph series presenting publications related to regional threats assessments of groups of taxa in the Otago Region. Most will be lists providing regional threat assessments of members of a plant or animal group (e.g., amphibians, bats, birds, indigenous vascular plants, reptiles), and leverages off national assessments for the New Zealand Threat Classification System within the regional context.

Recommended citation

Jarvie, S., McKinlay, B., Palmer, D., Rawlence, N. J., Thomas O. (2024). Regional conservation status of birds in Otago. Otago Regional Council, Otago Threat Classification Series, 2024/6

Cover and frontispiece image credits

Otago shag / matapo, *Leucocarbo chalconotus* G.R. Gray, 1845. Threatened – Regionally Vulnerable. Regional Endemic in Otago. Photograph by Oscar Thomas

Southern rock wren / pīwauwau, Xenicus gilviventris rineyi Falla, 1953. Threatened – Regionally Critical. National Stronghold in Otago. Photograph by Oscar Thomas

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Executive Summary

This report provides the first assessment of the regional conservation status of bird taxa known to occur in Otago since human arrival in Aotearoa New Zealand. Standardised methodology was followed to assess the regional threat status of 283 bird taxa. Thirty-two were assessed as Regionally Threatened (Regionally Critical = 9; Regionally Endangered = 6; Regionally Vulnerable = 17), four as Regionally At Risk (Regionally Declining = 3; Regionally Recovering = 1), 135 as Regionally Non-resident Native (Regional Migrant = 36; Regional Vagrant = 97; Regional Coloniser = 2), 22 as Regionally Not Threatened, 10 as Regionally Data Deficient, and 25 taxa as Introduced and Naturalised. Three taxa were identified as Conservation Translocations where they have been deliberated moved to the region for conservation benefit and have extant populations: two of these were Reintroductions and one was an Assisted Migration. The number of Regionally Extirpated taxa was 43, i.e., 30 are Globally Extinct and 13 are Regionally Extinct (two of these have been Reintroduced and have extant populations). Ten taxa are Introduced, Not Established, i.e., where a release is documented, but with no self-sustaining population in the wild; or a deliberate introduction is documented, and published records indicate the species bred (or probably bred), but it is no longer extant; and two are Not Assessed, i.e., have been assessed in earlier national assessments but currently not assessed.

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Introduction

Threat classifications play an important role in monitoring biodiversity and informing conservation actions. The New Zealand Threat Classification System (NZTCS) is a tool used to assign a threat status to candidate taxa (species, subspecies, varieties, and forma) in Aotearoa New Zealand (Townsend et al. 2008). The classification system was developed to apply equally to terrestrial, freshwater, and marine biota (flora and fauna). The NZTCS scores taxa at the national scale against criteria based on an understanding of population state, size, and trend, while considering population status, impact of threats, recovery potential, and taxonomic certainty. The Department of Conservation – Te Papa Atawhai (DOC) administers the NZTCS in Aotearoa New Zealand, with national assessments used to inform conservation action, target resources, and monitor biodiversity trends and conservation effectiveness.

While DOC is tasked with managing indigenous taxa nationally, regional and district councils have statutory obligations to maintain indigenous biodiversity under the Resource Management Act 1991 (RMA), including to manage the habitats of threatened taxa. The regional threat status of taxa is particularly important in the context of the RMA and in conservation planning. A key requirement of managing the habitats of threatened taxa is to understand distributions and regional population sizes, and to monitor trends and management intervention effectiveness.

This report is the first regional conservation status assessment for bird species in the Otago Region. Regional threat assessments have been completed following a standardised methodology by Otago Regional Council for four taxonomic groups (bats, Jarvie et al. 2023a; indigenous vascular plants, Jarvie et al. 2024a; reptiles, Jarvie et al. 2023b, Jarvie et al. 2024b; amphibians, Jarvie 2024), Greater Wellington Regional Council for five taxonomic groups (bats, Crisp et al. 2023a; birds, Crisp et al. 2024; indigenous freshwater fish, Crisp et al. 2022; indigenous vascular plants, Crisp 2020; reptiles, Crisp et al. 2023b) and Auckland Council for five taxonomic groups (amphibians, Melzer et al. 2022a; reptiles, Melzer et al. 2022b; indigenous vascular plants, Simpkins et al. 2023; bats, Woolly et al. 2023; freshwater fish, Bloxham et al. 2024) as of August 2024. Regional threat assessments also provide a stronger foundation for assessing the threat status of taxa nationally. The methodology for the regional threat assessments leverages off national threat assessments as determined using the NZTCS (Townsend et al. 2008, Rolfe et al. 2021, Michel 2021), with thresholds for area of occupancy or population size adjusted for the land area in the region (Appendix 1). National strongholds and additional regional qualifiers were also considered (Appendix 2).

Methods

The regional threat status of birds was assessed by a panel of experts (Bruce McKinlay, Dawn Palmer, Nicolas J. Rawlence, and Oscar Thomas) and an Otago Regional Council (ORC) ecologist (Scott Jarvie) in June 2023 and reviewed in June 2024. This assessment covers bird taxa present in the region, following standardised methodology for regional threat assessments as shown in Appendix 1, the list of regional qualifiers in Appendix 2, and the list of national qualifiers in Appendix 3. The national threat assessments and national qualifiers were from Robertson et al. (2021). Following Robertson et al. (2021), all taxa were classified as: 1) 'taxonomically determinate', i.e., legitimately and effectively published and generally accepted by relevant experts as distinct; or 2) 'taxonomically unresolved', i.e., used loosely to include both undescribed entities which still require formal taxonomic research to confirm their validity and provide them with a formal name and, occasionally, described species whose taxonomic validity is in question. Although the taxonomic nomenclature from Robertson et al. (2021) were used to follow the methodology, scientific names from the Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided in notes in the Tables and in Appendix 4.

Following the standardised methodology, bird taxa not observed in the region were first removed from consideration based on those recognised in the NZTCS list (Robertson et al. 2021) and recent publications (e.g., Rawlence et al. 2017; see Appendix 4 for information on how these publications have changed the names used). The next step was to identify Nationally Threatened and At-Risk taxa that breed or are resident in the region. If more than 20% of the national population is breeding or resident for more than half their life cycle in the region, taxa were assigned the National Stronghold qualifier and the NZTCS criteria applied. The regional conservation status must not be a lower threat status than the national status. For example, a Nationally Endangered taxon cannot be assessed as Regionally Vulnerable or lower but could be assessed as Regionally Critical.

Regional thresholds were set at more than 2000 mature individuals present or occupancy of more than 1000 ha. If taxa did not meet the threshold, they were assigned a regional threat status by applying the NZTCS criteria. If taxa did meet the threshold and the population trend was $\pm 10\%$ stable or increasing, they were assigned the status Regionally Not Threatened.

For Nationally Not Threatened and Non-Resident taxa, the regional population threshold was applied. If the population was not stable to increasing/decreasing by

more than 10%, the NZTCS criteria were used to determine the regional threat status. Population trend criteria were applied based on current knowledge, projecting from recent past into the future over the next 10 years or three generations, whichever is the longer. Regionally Non-Resident Natives are bird taxa whose natural presence is discontinuous as they are classified as a Regional Migrant, sporadic or temporary as a Regional Vagrant, or which have succeeded in recently (since 1950) establishing a resident breeding population as a Regional Coloniser.

Bird taxa that have become established in Otago after deliberate or accidental introduction by humans are classified as Introduced and Naturalised. To be considered naturalised, taxa must have established a self-sustaining population in the wild over at least three generations and must have spread beyond the site of initial introduction. Similar to <u>New Zealand Birds Online</u>, a category for Introduced, Not Established was included. This category includes bird species sighted in Otago where a: 1) release is documented, but with no self-sustaining population in the wild; or 2) a deliberate introduction is documented, and published records indicate the species bred (or probably bred), but it is no longer extant. A Not Assessed category was also included, like the national assessment.

In the Tables with the regional threat assessment information a notes column provides additional information that may be of interest to readers, e.g., locations of type localities, names and authority, and common names from the Checklist of the Birds of New Zealand (Checklist Committee, 2022), if the taxon is listed as a specified highly mobile fauna in the National Policy Statement for Indigenous Biodiversity (NPS-IB; Ministry for the Environment – Manatū Mō Te Taiao, 2023; Appendix 5), and the International Union for Conservation of Nature (IUCN) Red List of Threatened Species status for indigenous taxa (2024–1; downloaded, July 29, 2024; Appendix 6).

The IUCN information is provided as the New Zealand Coastal Policy Statement (Department of Conservation – Te Papa Atawhai, 2010) and its accompanying Document for Policy 11(a) (Indigenous Biological Diversity – Biodiversity; Department of Conservation – Te Papa Atawhai, 2019) provide guidance for taxa that are listed by the International Union for Conservation of Nature and Natural Resources (IUCN) as Threatened. The IUCN is an international system for evaluating the conservation status of plant, animal, and fungi species in the global context. 'Threatened' taxa are grouped into one of three categories: 'Critically Endangered', 'Endangered', and 'Vulnerable'. The different contextual scales of the IUCN Red List and the NZTCS means that a taxon may rank differently under the two systems. The NZTCS lists more taxa than the IUCN Red List simply because effort has been made to include as many species as possible.

Information is also provided on where extant bird taxa in the Regionally Threatened, At Risk, Migrant, and Introduced and Naturalised categories have recently been recorded in Otago. This included records for each territorial authority, the Coastal Marine Area (which extends from mean high-water springs out to the 12 nautical mile (22.2 kilometre) limit of the territorial sea, from the Waitaki River in the north to Wallace Beach in the south), and for each Freshwater Management Unit (FMU), of which the Clutha Mata-au FMU is subdivided into five rohe (areas). To further indicate bird taxa presence by territorial authority, Coastal Marine Area or FMU, the status was divided into breeding, suspected breeding, confirmed presence, and suspected presence. Bird taxa that are nationally extinct or regionally extirpated in the Otago region were also identified.

To inform decisions on population numbers and distributions for the regional threat status of bird taxa, occurrence records were used from data repositories, including eBird (Sullivan et al. 2009), and taxonomically harmonised with the listed bird taxa in the NZTCS (Robertson et al. 2021). The records were viewed in a locally operated dashboard using R v. 4.2.2 (R Core Team 2022) via the RStudio platform (Posit Team 2023). The main packages used were 'shiny' (Chang et al. 2021) and 'flexdashboard' (lannone et al. 2020). The map layers used to view records were OpenStreetMap and Esri WorldImagery. The expert panel was further informed by published and unpublished reports, data base summaries (e.g., eBird, Sullivan et al. 2009; New Zealand Birds Online), the Checklist of the Birds of New Zealand (Checklist Committee, 2022), IUCN Red List of Threatened Species (2024), and local, regional, and national personal communications. The panel critically assessed the available data and drew on their own expert knowledge to consider current and likely future threats to determine the status and qualifiers for each species.

Results

A total of 283 bird taxa were identified as being in the Otago Region since human arrival in Aotearoa New Zealand (Figure 1). Of these taxa, 32 are Regionally Threatened, four are Regionally At Risk, 135 are Regionally Non-resident Native, 22 are Regionally Not Threatened, 10 are Regionally Data Deficient, and 25 taxa are Introduced and Naturalised. Additionally, 43 taxa are identified as Regionally Extirpated, 10 taxa are Introduced, Not Established, and two are Not Assessed. Translocations to reintroduce or introduce species to the region have happened for conservation purposes; three of them are currently in progress, with two of these conservation translocations being reintroductions and one of them being an assisted migration.

For 32 Regionally Threatened taxa in Otago, nine are Regionally Critical, six are Regionally Endangered, and 17 are Regionally Vulnerable. Of the four Regionally At Risk taxa, three are Regionally Declining and one is Regionally Recovering. For Regionally Non-resident Native species, 36 are identified as Regional Migrants, 97 are Regional Vagrants, and two as Regional Colonisers. In Otago 43 are Regionally Extirpated; 30 species are globally extinct and 13 species are extant in Aotearoa New Zealand but extinct from Otago.

The region was identified as a national stronghold for eight bird taxa. These species have > 20% of the national population in Otago. Of those taxa with National Strongholds, only one taxon is a Regional Endemic, the Otago shag / matapo, *Leucocarbo chalconotus*, meaning they are not found elsewhere, i.e., known to exclusively breed in the region. One taxon was at their natural southern range limit for breeding within the region, wrybill / ngutu pare, *Anarhynchus frontalis,* excluding the regional endemic taxon. The number of taxa with type localities in the Otago region was 13; four are for extant taxa while nine are for extinct taxa (Appendix 8).

Numerous bird taxa are present in every Territorial Authorities, Coastal Marine Area, and Freshwater Management Unit or rohe in the Otago Region. For the categories of Regionally Threatened, Regionally At Risk, Regionally Non-resident (Migrant and Coloniser only), Regionally Introduced and Naturalised, and Regionally Conservation Translocated bird these are listed in Tables 2 and 3. In these tables 123 bird taxa were recorded as present in Territorial Authorities or the Coastal Marine Area, with 98 on them being native (Table 2). The number of bird taxa in territorial authorities ranged from 86 in Dunedin City Council to 63 in Central Otago District Council. The Region had 70 bird taxa (68 native, 2 Introduced and Naturalised) recorded from its Coastal Marine area. Of the above categories the number of bird taxa recorded in Otago

Regional Council's Freshwater Management Units (FMU) or rohe was 95, with 68 of these being native (Table 3). The highest number of bird taxa in a FMU or rohe is the Dunedin and Coast FMU with 83, with the least number in both the Manuherekia Rohe and Roxburgh Rohe with 56.

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Regionally Extirpated (43)

Taxa for which there is no reasonable doubt that the species is no longer present in the wild in Otago. The list includes nationally extinct and regionally extirpated bird taxa.

Table 1.1: Regionally Extirpated bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Qualifiers	National Qualifiers	Notes
REGIONALLY EXTIRPATED	(43)					
REGIONALLY EXTIINCT (13))					
Taxonomically determinate (1						
Apteryx owenii Gould, 1847	little spotted kiwi	kiwi pukupuku	Nationally Increasing		CI, CD, Inc, RR	IUCN: Threat Status: Near Threatened Formerly widespread on both main islands, but now confined to translocated populations on offshore islands and one mainland sanctuary. Common in Nelson / Whakatü, Westland, and Te Rua-o-Te-Moko / Fiordiand to the early 1900s, but gradually disappeared leaving a small population on D'Urville Island / Rangitoto ki te Tonga. It is believed five individuals were introduced to Kapiti Island / Ko te Waewae Kapiti o Tara Raua ko Rangitane from the Jackson Bay / Okahu area in 1912, where they flourished. Although transfers to other pest-free sites have seen numbers increase, low genetic diversity exists in the species.
<i>Callaeas cinerea</i> (Gmelin, 1788)	South Island kokako	kōkā*	Data Deficient		PE	IUCN: Threat Status: Critically Endangered Very high likelihood of at least being functionally extinct. The last record accepted by the Records Appraisal Committee of Birds New Zealand for South Island kokako / kókå was in 2007, with this not being in Otago (Upper Inangahua Valley: Miskeliy et al. 2013).
Cyanoramphus malherbi Souancé, 1857	orange-fronted parakeet	kākāriki karaka	Nationally Critical		CI, CD, CR, EF, RR	IUCN: Common Name and Threat Status: Malherbe's parakeet. Critically Endangered. Formerly widespread in Aotearoa New Zealand but now restricted to forested valleys in Waitaha / Canterbury and translocated populations. The Otago naturalist Alfred Philpott observed, in 1919, that while the orange-fronted parakeet / käkäriki karaka was not as abundant as the other species of indigenous parakeet, it is "in all probability extinct".
Gallirallus australis hectori (Hutton, 1873)	buff weka	weka	Relict			 IUCN: Name and Authority, Common Name and Threat Status: Gallira/lus austral/s Sparman, 1786; Weka; Vulnerable. Formerly widespread on Te Waipounamu / South Island along eastern low-rainfall areas from Mariborough / Te Tauihu-o-te-Waka to Southland / Murhiku. Apparently died out on the mainland but remains abundant on Chatham Islands / Rěkohu / Wharekauri and Pitt Island / Rangihaute / Rangiàuria where introduced in 1905. Reintroduced to five islands in two lakes (Lake Wanaka and Lake Wakatipu / Whakatipu Waimăori) and a mainland site (Motatapu Valley) Olego (Miskely & Powlesland 2013). Reintroduced populations are still present on the islands and individuals were in the Motatapu Valley in 2021. Although a recent study inferred only one subspecies of weka for each of the main islands in Aotearoa New Zealand (Trewick et al. 2017), the NZTCS taxonomy is followed in regional conservation status assessments so multiple lineages in Te Waipouramu / South Island were assessed in this report.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Qualifiers	National Qualifiers	Notes
Gallirallus philippensis assimilis (G.R.Gray, 1843)	banded rail	moho pererū	Declining		CI, CR, DPS, DPT, RR	IUCN: Name and Authority, Common Name and Threat Status: <i>Hypotaenidia philippensis</i> (Linnaeus, 1766); Buff- banded rail; Least Concern.
						NPS-IB: listed Specified Highly Mobile Fauna
						Formerly common throughout the main islands of Aotearoa New Zealand. On Te Ika-a-Māui / North Island found in Northiand (including Manawatawhi / Three Kings, Poor Knights, Hauturu / Little Barrier, and Greet Barrier / Aotea Islands), Tfmaki Makaruaru / Juckland, Waitato, Coromandel / Kapanga, and Bay of Pentry / Te Moana-a-To but rare south of 39°S (Marchant & Higgins 1993). In Te Waipounamu / South Island found in coastal north-west Nelson / Whakat0, Golden Bay / Mohua and Pelorus Sound, and rare elsewhere (Elliott 1989). Islands south-west of Rakiura / Stewart Island.
Pelecanoides whenuahouensis Fischer et al., 2018	Whenua Hou diving petrel	kuaka Whenua Hou*	Nationally Critical		CI, CD, CR, IE, OL	Checklist Committee: Name and Authority: Pelecanoides georgicus whenuahouensis Fischer, Debski, Miskelly, Bost, Fromant, Tennyson, Tessler, Cole, Hiscock, Taylor & Wittmer 2018
						IUCN: Name and Authority, Common Name and Threat Status: Pelecanoides georgicus whenuahouensis Fischer et al., 2018; Critically Endangered.
						Bones found in a midden at Sandfly Bay, Otago Peninsula / Muaūpoko were morphologically identified as South Georgian diving petrel. Since the taxonomic description of <i>P. georgicus whenuahouensis</i> from Whenua Hou / Codfish Island, it is thought these Sandfly Bay specimens may belong to <i>P. georgicus whenuahouensis</i> . While these specimens may have been beach wrecked individuals originating from other colonies, it was considered more likely they are originated from a local colony (Wood & Briden 2008).
Philestumus carunculatus Gmelin, 1789	South Island saddleback	tīeke	Recovering		CD, DPS, Inc, PF, RR	IUCN: Name and Authority, and Threat Status: Pelecanoides georgicus whenuahouensis Fischer et al., 2018. Critically Endangered
						Once found throughout Te Waipounamu / South Island and Rakiura / Stewart Island but predation by introduced mammals led to them becoming confined to the South Cape Islands by the 1960s. Subsequent successful or ongoing translocations have occurred. An attempt to establish a population at Orokonui Ecosanctuary – Te Korowai o Mihiwaka, near Otepoti Dunedin, in 2009 and 2013 was unsuccessful due to a stoat (<i>Mustele erminee</i>) incursion.
Poliocephalus rufopectus (G.R. Gray, 1843)	New Zealand dabchick	weweia	Nationally Increasing		DPS, Inc	IUCN: Name and Authority, Common Name and Threat Status: Poliocephalus rulopectus (Gray, 1843); New Zealand grebe; Least Concern.
						NPS-IB: listed Specified Highly Mobile Fauna
						Occurs from Northland to the north of the Te Waipounamu / South Island. Once sparingly distributed on small lakes and sheltered inlets on larger lakes in the Te Waipounamu / South Island, it declined in the 19 th century until becoming extinct there as a breeding species in the 1940s.
Porphyrio hochstetteri (A.B. Meyer, 1883)	South Island takahe	takahē	Nationally Vulnerable		CI, CD, RR	IUCN: Threat Status Endangered
						Once widespread in the Te Waipounamu / South Island, their range reduced to a relict population in the mountains of Te Rua-o-Te-Moko / Fiordland by the 1940s. The modern conservation programme has set up additional populations a captive breeding and rearing facility at Burwood Bush near Te Anau, plus free-ranging populations on wildlife reserves on Te Ika-a-Mäui / North Island and Te Waipounamu / South Island and several offshore islands.
						The taxon has two pairs at Orokonui Ecosanctuary – Te Korowai o Mihiwaka, near Õtepoti Dunedin. In August 2023, 18 birds (9 pairs) were released in the Greenstone Valley, near Glenorchy, at the start of the breeding season. A further six sub-juveniles were released to reinforce the population in November 2023, with additional reinforcements occurring. Breeding has been recorded at both locations. Neither the Orokonui Ecosanctuary nor Greenstone Valley populations are self-sustaining vet.

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Regionally Extirpated continued Name and Authority Common Name Māori Name from National National Regional National Notes **Conservation Status Conservation Status** Qualifiers Qualifiers Strigops habroptilus Gray, kākāpō kākāpō Nationally Critical CD, CR IUCN: Common Name and Threat Status: kakapo; Critically Endangered 1845 Inc, RR Once found throughout Aotearoa New Zealand, they disappeared from Te Ika-a-Māui / North Island by about 1930, persisting longer in Te Waipounamu / South Island until the late 1980s. Intensive management of the population has seen numbers increase in recent years. Thinornis novaeseelandiae shore plover tuturuatu' Nationally Critical IUCN: Name and Authority, Common Name and Threat Status: Thinomis novaeseelandiae (Gmelin, 1789); Sp, Cl, Gmelin, 1789 CD, CR, Endangered Inc, RR NPS-IB: listed Specified Highly Mobile Fauna Previously found around the coast of mainland Aotearoa New Zealand but were extirpated by about the 1870s and were confined to the Chatham Islands / Rēkohu / Wharekauri. The taxon has recently been released on islands around mainland Aotearoa New Zealand. Taxonomically unresolved (2) Anas chlorotis "South South Island pāteke' Data Deficient PE IUCN: Name and Authority, Common Name and Threat Status: Anas chlorotis Gray, 1845; brown teal; Near Island" G.R. Gray, 1845 brown teal Threatened High likelihood of being functionally extinct due to hybridisation with mallards [Birdlife International, 2015; Checklist Committee]. Last recorded in the wild in 1999 (Heather & Robertson 2015). CD, CR, PD, RF Apteryx spp. tokoeka spp. tokoeka Naturally Uncommon IUCN: Name and Authority, Common Name and Threat Status: Apteryx australis Shaw, 1813; southern brown kiwi; or Nationally Vulnerable Vulnerable Tokoeka spp. were likely widespread throughout the southern and eastern part of Te Waipounamu / South Island as far north as North Canterbury / Waitaha, but their range contracted to Te Rua-o-Te-Moko / Fiordland, Haast Range and Rakiura / Stewart Island by the late 19th century. Due to these disjunct populations of tokoeka, the result of postulated recent and ongoing population declines, the Department of Conservation - Te Papa Atawhai treat them as distinct management units (Burbidge et al. 2003; Weir et al. 2016; Germano et al. 2018; Bemmels et al. 2021; Scofield et al, 2021; Shepherd et al, 2021; Undin et al, 2021). Until further morphological and/or genetic research is undertaken. it is unclear whether the tokoeka which were found in Otago were more closely related to Apteryx australis "northern Fiordland" or Aptervx australis "southern Fiordland". NATIONALLY EXTINCT (30) Taxonomically determinate (30) Aegotheles New Zealand ruru hinapõ Extinct novaezealandiae (Scarlett owlet-nightjar 1968) Anomalopteryx didiformis little bush moa moariki* Extinct (Owen, 1844) Aptornis defossor Owen, South Island Extinct TL TL = Öamaru ngutu hahau' 1871 adzebill Aquila moorei Haast, 1872 Haast's eagle pouakai*, hokioi* Extinct Biziura delautouri Forbes, New Zealand Extinct TL TL = Enfield Swamp 1892 musk duck Chenonetta finschi (Van Finsch's duck manutahora* Extinct TL TL = Earnscleugh Cave Beneden, 1875) Circus teauteensis Forbes Eyles' harrier kērangi Extinct 1892 Cnemiornis calcitrans South Island Extinct Owen, 1865 goose Coenocorypha iredalei tutukiwi* Extinct South Island Rothschild, 1955 snipe

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Regionally Extirpated continued Name and Authority Common Name Māori Name from National National Regional National Notes **Conservation Status** Qualifiers **Conservation Status** Qualifiers Corvus moriorum pycrafti South Island Extinct Checklist Committee: Name and Authority: Corvus antipodum pycrafti Forbes, 1893 Gill. 2003 raven Coturnix novaezelandiae New Zealand koreke' Extinct Quoy and Gaimard,1830 quail Cygnus sumnerensis New Zealand matapu* Not assessed in Robertson et al. 2021. However, extinct taxon according to Rawlence et al. 2017 and 2018. The (Forbes, 1890) Checklist Committee, also has as an extinct taxon. swan Bones have been found at four Holocene deposits only (caves in north-west Te Waipounamu / South Island and Dendroscansor long-billed wren manu paea Extinct decurvirostris Millener & Southland / Murihiku; Worthy & Holdaway, 2002). Assumed to be indigenous taxon in Otago due to disjunct distribution Worthy, 1991 of Holocene deposits with suitable habitats in the region. Dinornis robustus Owen, South Island moa nunui Extinct TL TL = Waikouait 1846 giant moa Emeus crassus Owen. eastern moa moa mōmona Extinct TL TL = Waikouaiti 1846 moa hakahaka' Euryapteryx curtus gravis stout-legged Extinct Owen, 1870 moa Fulica prisca Hamilton, New Zealand Extinct 1893 coot Gallinula hodgenorum Hodgens' Extinct Checklist Committee: Name and Authority: Tribonyx hodgenorum (Scarlett, 1955) (Scarlett, 1955) waterhen IUCN: Name and Authority, Common Name and Threat Status: Ixobrychus novaezelandiae (Potts, 1871) Ixobrychus novaezelandiae New Zealand kaoriki Extinct TI (Purdie, 1871) little bittern TL = Lake Wakatipu / Whakatipu Waimãor Malacorhynchus scarletti Scarlett's duck Extinct Olson, 1977 Megadyptes waitaha Waitaha penguin Extinct Boessenkool et al., 2009 Megalapteryx didinus upland moa moa pukepuke Extinct TL TL = Tāhuna / Queenstown Owen 1883 Checklist Committee: Common Name: Auckland Island merganser. Mergus australis Hombron Extinct Auckland Island miuweka* & Jacquinot, 1841 merganser IUCN: Threat Status: New Zealand merganser. Extinct. Assessed as Auckland Island merganser in Robertson et al. 2021, with the alternative name New Zealand merganser provided. Further genetic research is needed to resolve relationships between living and extinct merganser fossils from Aotearoa New Zealand that not yet been subjected to ancient DNA analysis (Rawlence et al. 2024). Pachyornis australis Oliver, crested moa moa koukou Extinct Bones found as Pleistocene and rare Holocene remains in the northwest Te Waipounamu / South Island and rare 1949 Holocene remains in Southland / Murihiku (Worthy & Holdaway, 2002). Assumed to be indigenous taxon in Otago due to disjunct distribution of Holocene deposits with suitable habitats in the region. Southland / Murihiku specimens need reassessment. Pachyornis elephantopus heavy-footed moa waewae taumaha Extinct TL TL = Awamoa (Owen, 1856) moa Pachyplichas yaldwyni South Island Extinct Bones found as Holocene remains in predator deposits and cave pitfall deposits in north-west Te Waipounamu / South Island, Westland, Waitaha / Canterbury, and Southland / Murihiku (Worthy & Holdaway, 2002). Assumed to be indigenous taxon in Otago due to disjunct distribution of Holocene deposits with suitable habitats in the region. Millener, 1988 stout-legged wren Sceloglaux albifacies South Island whēkau' Extinct TL Checklist Committee: Name and Authority: Ninox albifacies albifacies (G.R. Gray, 1844) albifacies G.R. Gray, 1844 laughing owl IUCN: Common Name and Threat Status: Ninox albifacies (Gray, 1844); Laughing owl TL = Waikouaiti

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Regionally Extirpated continued

rogionally Exampled contained											
Name and Authority	Common Name	Māori Name from National	National	Regional	National	Notes					
		Conservation Status	Conservation Status	Qualifiers	Qualifiers						
Traversia lyalli Rothschild,	Stephens Island		Extinct			Checklist Committee: Common Name: Lyall's Wren					
1894	wren										
						IUCN: Common Name: Stephens Island rockwren					
Turnagra capensis	South Island	piopio*	Extinct			IUCN: Name and Authority, and Threat Status: Turnagra capensis (Sparrman, 1787).					
capensis Sparrman, 1787	piopio										
Xenicus longipes longipes	South Island	mātuhituhi	Extinct			IUCN: Name and Authority, and Common Name: Xenicus longipes (Gmelin, 1789); Bushwren.					
(Gmelin, 1789)	bush wren										

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas?; T?O = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Maori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

11

Regionally Data Deficient (10)

Taxa that are suspected to be threatened or, in some instances, possibly extinct in Otago but are not definitely known to belong to any particular category due to a lack of current information about their distribution and abundance (for a fuller definition see Townsend et al. 2008).

Table 1.2: Regionally Data Deficient bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	National Qualifiers	Notes
DATA DEFICIENT (10)					
Taxonomically determinate (1	0)				
Anas superciliosa Gmelin, 1789	grey duck	părera	Nationally Vulnerable	CR, DPR, DPS, DPT, SO	IUCN: Common Name and Threat Status: pacific black duck; Least Concern. NPS-IB: listed Specified Highly Mobile Fauna. Extensively hybridised with introduced mallards to an extent that few pure grey ducks may exist in Actearoa New Zealand. Although this is based on phenotype, as definitive genetic studies have yet to be undertaken, the diversity of soft part and plumage characteristics of most grey duck-like Actearoa New Zealand birds compared to those in Australia support this belief. <u>New Zealand Birds Online</u> suggests the best coordunity to yiew grey duck is outside the Otaoo region in forested headwater catchments and away from human settlements.
Eudyptula minor albosignata Finsch, 1874	white- flippered blue penguin	kororā		CI, CD, CR, PD, RR	Checklist Committee: Name and Authority, and Common Name: Eudyptula minor minor J.R. Forster, 1781; New Zealand little penguin. IUCN: Name and Authority, Common Name and Threat Status: Eudyptula minor J.R. Forster, 1781; Little penguin; Least Concern. There are two subspecies currently recognised by the Checklist of the Birds of New Zealand (Checklist Committee, 2022); 1) Australian populations (<i>E. m. novaehollandlea</i>) and some Orago birds, and 2) all remaining populations including some Otago birds (<i>E. m. movaehollandlea</i>) and some Otago birds. <i>E. m. relade</i> increase New Zealand), <i>E. m. variabilis</i> (Te Moana-o- Raukawa / Cook Strait), <i>E. m. altosignate</i> (the white-flippered penguin of North Canterbury), <i>E. m. chathamensis</i> (Chatham Islands / Rakchu/Wharekauri), and some <i>E. m. minor</i> (southern Aotearoa New Zealand). <i>E. m. altobasignate</i> was assigned Regionally Data Deficient dude to this taxonomic uncertainty. Although the two clades are genetically distinguishable, they are not always readily identifiable in the field (Checklist Committee, 2022), and so the boundaries of their distributions and extent of sympatry in southern Aotearoa New Zealand is poorly known (Grosser et al. (2015, 2017). Little penguins are observed in Oamaru with varying degrees of white-flipperedness; individuals of both the Australian and New Zealand leade breed bogether (Agneew pers.com) u/u 2024).

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Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	National Qualifiers	Notes
Eudyptula minor minor J.R. Forster, 1781	southern blue penguin	kororā	Declining	CI, CR, DPS, DPT	Checklist Committee: Name and Authority, and Common Name: <i>Eudyptula minor minor</i> J.R. Forster, 1781; New Zealand little penguin. IUCN: Name and Authority, Common Name and Threat Status: <i>Eudyptula minor</i> J.R. Forster, 1781; Little penguin; Least Concern. Two subspecies are currently recognised by the Checklist of the Birds of New Zealand (Checklist Committee, 2022): 1) Australian populations (<i>E. m. novaehollandiae</i>) and some Otago birds, and 2) all remaining populations including some Otago birds (<i>E. m. minor</i>)
					populations (c. m. Involventian of and some p and some p and of the mining populations introducing some orago of the (c. m. innov The second clade includes brids previously assigned to E. m. iredale (northern Aotearoa New Zealand). E. m. variabilis (Te Moana-o Raukawa / Cook Strait), E. m. albosignata (the white-flippered penguin of North Canterbury), E. m. chathamensis (Chatham Islands Rékohu / Wharekauri), and some E. m. minor (southern Aotearoa New Zealand). Due to this taxonomic uncertainty, E. m. minor wa assigned Regionally Data Deficient.
					Although the two clades are genetically distinguishable, they are not always identifiable in the field (Checklist Committee, 2022), and so the boundaries of their distributions and extent of sympatry in southern Aotearoa New Zealand is poorly known (Grosser et al. (2015 2017).
Gallirallus australis australis Sparrman, 1786	western weka	weka	Not Threatened	EF, Inc	IUCN: Name and Authority, Common Name and Threat Status: Gallirallus australis Sparrman, 1786; Weka; Vulnerable
					Found from Marborough Sounds to Te Rua-o-Te-Moko / Fiordland. While known populations might be found close to the Otago boundary it is uncertain whether this taxon is found in the region.
					Although a recent study inferred only one subspecies of weka for each of the main island in Aotearoa New Zealand (Trewick et al. 2017) the NZTCS taxonomy is followed in regional conservation status assessed in this report.
Leucocarbo stewarti (Ogilvie-Grant, 1898)	Foveaux shag	mapo	Nationally Vulnerable	CD, CR, DPS, DPT, PD	IUCN: Name and Authority, Common Name and Threat Status: Leucocarbo chalconotus (Gray, 1845); Stewart Island shag; Vulnerable Most recently assessed in 2018 and did not include the latest taxonomy from Rawlence et al. 2016 for the Otago shag / matapo, L chalconotus G.R. Gray, 1845.
					A carcass from a beach-wrecked specimen was found from the western shore of Boulder Beach, Otago Peninsula / Muaüpoko, on 22 June 2011 (Rawlence et al. 2014). It is unknown if a breeding colony exists in Otago.
Pachyptila crassirostris crassirostris Mathews,	fulmar prion		Naturally Uncommon	CD, RR, St	IUCN: Name and Authority, and Threat Status: Pachyptila crassirostris (Mathews, 1912); Least Concern.
1912					A poorly known species only easily seen by visiting its remote island breeding sites. While usually only easily identifiable in the hand, i has been seen east of the Te Waipounamu / South Island.
Procellaria parkinsoni G.R. Gray, 1862	black petrel	tāiko	Nationally Vulnerable	CI, CD, CR, RR	IUCN: Threat Status: Vulnerable
					While hard to distinguish at sea from the similar-looking Westland petrel / täiko, it could visit Otago waters. A sighting off Taiaroa Head Pukekura in October 2023 was regarded as 'probable' by the Birds New Zealand Records Appraisal Committee.
Pterodroma magentae (Giglioli & Salvadori, 1869)	Chatham Island taiko	täiko	Nationally Critical	CD, CR, Inc, IE, OL	IUCN: Common Name and Threat Status: Magenta petrel; Critically Endangered. Recent tracking studies has improved understanding of the at-sea distribution of Chatham Island taiko / tãiko. A study from 2023 showed a bird off the Otago shelf, but not within Otago's Coastal Marine Area (Chambon, unpublished data, 2023). It is possible other birds could discerse into Otago waters.
Thalassarche bulleri platei Rothschild, 1888	northern Buller's	toroa	Naturally Uncommon	CI, CD, RR	Checklist Committee: Name and Authority: Thalassarche bulleri platei (Reichenow, 1888).
	mollymawk				IUCN: Name and Authority, Common Name and Threat Status: Thalassarche bulleri (Rothschild, 1893); Buller's albatross; Nea Threatened.
					A small albatross commonly occurring around coastal areas of Aotearoa New Zealand. Two subspecies, both extant: northern Buller's mollymawk (<i>T. bulleri platei</i>) and southern Buller's mollymawk / toroa (<i>T. b. bullen</i>). While the southern Buller's mollymawk / toroa is regularly seen in the Otago Coastal Marine Area, it is uncertain if the northern Buller's mollymawk / toroa is found in the region due to identification challenges. The main area the northern subspecies ranges is off the Chatham Islands / Rěkohu / Wharekauri, and eastern Te Ika-a-Mäui / North Island, but the taxon has been recorded in the subantarctic seas. Both subspecies migrate after breeding to the sear off Peru and Chile.

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Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	National Qualifiers	Notes
Thalassarche cauta cauta Gould, 1841	Tasmanian albatross	toroa*	Vagrant	SO	IUCN: Name and Authority, Common Name and Threat Status: Thalassarche cauta (Gould, 1841); Shy albatross; Near Threatened.
					A medium-sized albatross commonly occurring around Aotearoa New Zealand. Two subspecies, both extant: New Zealand white-cappe mollymawk / toroa (<i>T. cauta steadi</i>) and Tasmanian albatross (<i>T. c. cauta</i>). While the New Zealand white-capped mollymawk / toroa i regularly seen in the Otago Coastal Marine Area, it is uncertain if the Tasmanian albatross is found in the region due to identificatio challenges. The main area they occur is around Tasmania and the South Indian Ocean. Both subspecies disperse after breeding throug the South Pacific westwards as far as the South Altantic Ocean.

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas?; T?O = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Māori name used in the Notomis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

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Regionally Threatened (32)

Taxa that meet the criteria specified by Townsend et al. (2008) and Michel (2021) for the categories Regionally Critical, Regionally Endangered, Regionally Vulnerable or Regionally Increasing.

Regionally Critical (9)

Criteria for Regionally Critical:

A – very small population (natural or unnatural)

- A(1) < 250 mature individuals
- $A(2) \leq 2$ subpopulations, ≤ 200 mature individuals in the larger subpopulation
- A(3) Total area of occupancy ≤ 1 ha (0.01 km²)

B – small population (natural or unnatural) with a moderate ongoing or predicted decline of 50–70%

- B(1) 250–1000 mature individuals
- $B(2) \le 5$ subpopulations, ≤ 300 mature individuals in the largest subpopulation
- B(3) Total area of occupancy ≤ 10 ha (0.1 km²)

C – population (irrespective of size or number of subpopulations) with a very high ongoing or predicted decline of > 70%

Table 1.3.1: Regionally Critical bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Population	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
REGIONALLY CR	TTICAL (9)											
Taxonomically dete	erminate (9)											
Anarthynchus Trontalis Cuoy & Gaimard, 1830	wrybill	ngutu pare	Nationally Increasing	A (1)		< 250	Stable: ±10 %	Low	Low	CD, DPS, DPT, NR, RR	CD, CR, RR	IUCN: Name and Authority, and Threat Status: Anarhynchus frontalis Quoy & Gaimard, 1830; Vulnerable. NPS-IB: listed Specified Highly Mobile Fauna Breeds only on Te Waipounamu / South Island. Most of the populations: Hunter, Makarora, Matukituki, and four rivers in Otago have populations: Hunter, Makarora, Matukituki, and Dart River / Te Awa Whakatipu. During their migration, flocks are often seen briefly on Te Waipounamu / South Island east coast lakes and estuaries. On their wintering grounds, they feed on inter- tidal mudflats in harbours and estuaries.
Botaurus poiciloptilus (Wagler, 1827)	Australasian bittern	matuku-hūrepo	Nationally Critical	A (1)		< 250	Decreasing: 50–70 %	Medium	High	CI, DPT, TO	Sp, CR, DPT, RF, TO	IUCN: Threat Status; Vulnerable. NPS-IB: listed Specified Highly Mobil Fauna Likely <50 mature individuals. Difficu to detect, with females under represented in counts. Continued next pag

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Regionally Critical Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Population	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
Cyanoramphus novaezelandiae novaezelandiae Sparrman, 1787	red-crowned parakeet	kākāriki	Relict	A (1)		< 250	Stable: ±10 %	Low	Medium	CD, DPR, DPS, DPT	CD, PF	IUCN: Name and Authority, Common Name and Threat Status: Cyanoramphus novaezelandiae Sparrman, 1787; Red-crowned parakeet; Least Concern Formerly common in Actearoa New Zealand but now largely restricted to pest-free offshore and outlying islands. In Chago, mainly found in the
												Catlins, although assumed some birds could be escapees or explorations. Occasionally seen in other parts of the region, e.g., Waipori.
Diomedea sanfordi Murphy, 1917	northern royal albatross	toroa	Nationally Vulnerable	A (1)		< 250	Increasing: >10 %	High	High	CD, CI, INC, OL	CI, CD, CR, DPT, RR, RF	IUCN: Threat Status: Endangered The first chick fledged at the Taiaroa Head / Pukekura colony in September 1938. As of October 2023, there are 242 mature individuals based on sighted band combinations from the last two years (Reid and Watts, Department of Conservation – Te Papa Atawhai, pers. comm., October 2023). The colony is the only albatross colony found on a human-inhabited mainland in the Southern Hemisphere.
Hymenolaimus malacorhynchos (Gmelin, 1789)	whio	kōwhicwhio (Kâi Tahu)	Nationaliy Vulnerable	A (1)		< 250	Stable: ±10 %	Low	Low	CD, CI, DPS, DPT	Sp, CI, CD, PD	IUCN: Common Name and Threat Status: blue duck. Endangered. NPS-IB: listed Specified Highly Mobile Fauna A recent study has detected new genetic matemal lineage in köwhiowhio within the Makarora and South Westland area (Hufton & Robertson 2023). Based on survey work, observations, and recent verified whito records, at least 25 adult köwhiowhio (comprising 11 pairs) have been identified within the Makarora catchment. Despite this, the total number of köwhiowhio in Otago was estimated to < 100 mature individuals.

Regionally Critical continued Name and Common Mäori Name from National Regional National Regional Regional Regional Regional Regional National Notes Authority Name National Conservation Criteria Stronghold Population Trend Confidence Confidence Qualifiers Qualifiers Conservation Trend Status Population Status 250-1000 Megadyptes CD, CI, CR, EF yellow-eyed hoiho Nationally B (1) Decreasing: High High CI, CD, CR, Checklist Committee: Name and antipodes penauin Endangered 70 % DPS, DPT, Authority: Megadyptes antipodes (Hombron & EF, PD, RF antipodes (Hombron & Jacquinot, Jacquinot, 1841) 1841), Three subspecies are recognised, following Cole et al. (2019), with only M a. Antipodes extant. IUCN: Threat Status: Endangered. Breeds with a Northern population on the southeast coast of Te Waipounamu / South Island, on Rakiura / Stewart Island and adjacent islands, and in a Southern population subantarctic on the Auckland Islands / Mauka Huka and Campbell Island / Motu Ihupuku. On the mainland as part of the Northern population, breeds in four distinct regions: the Catlins, Otago Peninsula / Muaūpoko, North Otago, and Banks Peninsula. Between 2002 and 2023, the population declined by > 70 % in Otago. Historically, the region would have been a National Stronghold, i.e., > 20% of the population, but due to the dramatic decline in Otago (and a lack of knowledge about the Southern population) this is no longer the case. Nestor notabilis Gould, 1856 kea kea Nationally B (1) 250-1000 Decreasing: Medium Low CI, DPS, DPT CI, CD, CR IUCN: Threat Status: Endangered. Endangered 50-70 % NPS-IB: listed Specified Highly Mobile Fauna Mainly found in the high country of Te Waipounamu / South Island from Te Rua-o-Te-Moko / Fiordland to Nelson / Whakatū and Marlborough / Te Tauihu-o-te-Waka. Estimated to < 500 mature individuals in Otago.

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Regionally Critical continued

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Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Population	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
Porzana tabuensis tabuensis Gmelin, 1789	spotless crake	pûweto	Declining	A (1)		< 250	Decreasing: 10–30 %	Low	Low	CI, CR, DPR, DPS, DPT, SO	DPS, DPT, PF, SO	Checklist Committee: Name and Authority: Zapornia tabuensis tabuensis (Gmelin, 1789). IUCN: Name and Authority, and Threat Status: Zapornia tabuensis (Gmelin, 1789); Least Concern. NPS-IB: listed Specified Highly Mobile Fauna Widely if patchily distributed throughout Te Ika-a-Māui / North Island but rare on Te Waipounamu / South Island. A lack of survey data exists for distribution of the species in Otago.
Xenius gilviventris rineyi Falla, 1953	southern rock wren	pîwauwau*	Nationally Endangered	B (1)	Yes	250-1000	Decreasing: 50-70 %	Medium	Low	CD, CI, CR, DPS, DPT, NStr	CI, CD, CR, DPS, DPT	Checklist Committee: Name and Authority, and Common Name: Xenicus gliviventris Von Pelzeln, 1867; Rock wren. IUCN: Name and Authority, and Threat Status: Xenicus gliviventris Pelzeln, 1867; Rock wren; Endangered. NPS-IB: listed Specified Highly Mobile Fauna Restricted to Te Waipounamu / South Island alpine and subalpine areas, from Nelson / Whakatū to western Southand / Munhku. Mostly resident in subalpine fellfields, being most common in the region within the Southern Alps / Kä Tirthir to te Moana, including Mt Aspiring National Park. Southern rock wren / piwauwau are less abundant and even more localised in the Eyre Mountains / Taka

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas?; T?O = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Maori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Regionally Endangered (6)

Criteria for Regionally Endangered:

- A small population (natural or unnatural) that has a low to high ongoing or predicted decline
- A(1) 250–1000 mature individuals, predicted decline 10–50%
- A(2) ≤ 5 subpopulations, ≤ 300 mature individuals in the largest subpopulation, predicted decline 10–50%
- A(3) Total area of occupancy \leq 10 ha (0.1 km²), predicted decline 10–50%
- B small stable population (unnatural)
- B(1) 250–1000 mature individuals, stable population
- B(2) ≤ 5 subpopulations, ≤ 300 mature individuals in the largest subpopulation, stable population
- B(3) Total area of occupancy \leq 10 ha (0.1 km²), stable population
- C moderate population and high ongoing or predicted decline
- C(1) 1000–5000 mature individuals, predicted decline 50–70%
- $C(2) \le 15$ subpopulations, ≤ 500 mature individuals in the largest subpopulation, predicted decline 50–70%
- C(3) Total area of occupancy \leq 100 ha (1 km²), predicted decline 50–70%

Table 1.3.2: Regionally Endangered bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Population	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
REGIONALLY EI Taxonomically de												
Chlidonias albostriatus (G.R. Gray, 1845)	black- fronted tern	tarapirohe*	Nationally Endangered	C (1)		1000- 5000	Decreasing: 50–70 %	Low	Medium	CI, DPS, DPT, RR	Sp, Cl, CR, PD, RF	IUCN: Threat Status: Endangered. NPS-IB: listed Specified Highly Mobile Fauna
Eudynamys taitensis (Sparrman, 1787)	long-tailed cuckoo	koekoeä	Nationally Vulnerable	(1)		250-1000	Decreasing: 30–50 %	Low	ow	CI, CR, DPS, DPT	CI, CR, DPT	IUCN: Name and Authority, Common Name and Threat Status: Urodynamis taitensis (Sparman, 1787); Long-tailed koel; Vulnerable Co-extinction possible due to regional declines of host species (mohua and brown creeper / pipi)).
Galiralus australis hectori (Hutton, 1873)	buff weka	weka	Relict	B (1)		250-1000	Stable: ±10 %	High	High	CD, RN		IICN: Name and Puthority, Common Name and Threat Status: Gallirallus australis Sparrman, 1786; Weka; Vulnerable Formerly widespread in eastern low- rainfall areas from Marlborough / Te Tauhu-o-te-Waka to Southand / Murihiku. Apparently died out on the mainland but remains abundant on Chatham Islands / Rekohu / Wharekauri and Pitt Island / Rangihaute / RangiButa where they were introduced in 1905.Reintroduced to five islands in two lakes (Lake Wānaka and Lake Wakatipu / Whakatipu Vailey) in Otago (Miskelly & Powlesiona 2013). Reintroduced populations are still present on the islands and Individuals were present in the Motatapu Vailey in 0221.Although a recent study inferred only one subspecies of weka for each of the main island in Aotearoa New Zealand (Trewick et al. 2017), the XIZCS taxonomy is followed in regional conservation status assessments so multiple lineages on Te Waipounamu / South Island were assessed in this report.

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Regionally Endangered continued

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Population	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
Nestor meridionalis meridionalis (Gmelin, 1788)	South Island kaka	kākā	Nationally Vulnerable	A (1)		250-1000	Decreasing: 10–30 %	Low	Low	CD, DPS, DPT, PD	CD, CR, PD, RF	IUCN: Name and Authority, Common Name and Threat Status: Nestor meridionalis (Gmelin, 1788); New Zealand kaka; Vulnerable. NPS-IB: listed Specified Highly Mobile Fauna < 500 mature individuals, < 500 breeding. Partial decline qualifier, because of reintroduced population at Orokonui Ecosanctuary – Te Korowai o Mihwaka. Data poor elsewhere in the region.
Phalacrocorax carbo novaehollandiae Stephens, 1826	black shag	kōau (Kāi Tahu)	Relict	B (1)		250–1000	Stable: ±10 %	Medium	Low	DPS, SO, Sp	Sp, CR, DPS, DPT, SO	IUCN: Name and Authority, Common Name and Threat Status: <i>Phalacrocorax</i> <i>carbo</i> (Linnaeus, 1758); Great cormorant; Least Concern.
Porzana pusilla affinis (J.E. Gray, 1845)	marsh crake	kotoreke	Declining	A (1)		250-1000	Decreasing: 10–30 %	Low	Low	CI, CR, DPR, DPS, DPT, RR	CI, CR, DPS, DPT, PF, RR	IUCN: Name and Authority, Common Name and Threat Status: Zapornia pusilla (Pallas, 1776); Ballion's crake; Least Concern. NPS-IB: listed Specified Highly Mobile Fauna
												Like nationally, there is a lack of survey data for distribution, and little is known of breeding ecology.

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas?; T?O = Threatened? Overseas?; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Maori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Regionally Vulnerable (17)

Criteria for Regionally Vulnerable:

A – small, increasing population (unnatural)

- A(1) 250–1000 mature individuals, predicted increase > 10%
- A(2) ≤ 5 subpopulations, ≤ 300 mature individuals in the largest subpopulation, predicted increase > 10%
- A(3) Total area of occupancy \leq 10 ha (0.1 km²), predicted increase > 10%

B – moderate, stable population (unnatural)

- B(1) 1000–5000 mature individuals, stable population
- $B(2) \leq 15$ subpopulations, ≤ 500 mature individuals in the largest subpopulation, stable population
- B(3) Total area of occupancy \leq 100 ha (1 km²), stable population

C – moderate population, with population trend that is declining

- C(1) 1000–5000 mature individuals, predicted decline 10–50%
- $C(2) \le 15$ subpopulations, ≤ 500 mature individuals in the largest subpopulation, predicted decline 10-50%
- C(3) Total area of occupancy \leq 100 ha (1 km²), predicted decline 10–50%

D - moderate to large population and moderate to high ongoing or predicted decline

- D(1) 5000-20,000 mature individuals, predicted decline 30-70%
- $D(2) \le 15$ subpopulations, ≤ 1000 mature individuals in the largest subpopulation, predicted decline 30–70%
- D(3) Total area of occupancy \leq 1000 ha (10 km²), predicted decline 30–70%

E – large population and high ongoing or predicted decline

- E(1) 20,000–100,000 mature individuals, predicted decline 50–70%
- E(2) Total area of occupancy \leq 10,000 ha (100 km²), predicted decline 50–70%

Table 1.3.3: Regionally Vulnerable bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Endemic	Regional Population	Regional Trend	Regional Confidenc e Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
REGIONALLY VULN	IERABLE (17)												
Taxonomically detern	ninate (17)												
Charadrius bicinctus bicinctus Jardine and Selby, 1827	banded dotterel	pohowera	Declining	B (1)			1000-5000	Stable: ±10 %	Low	Low	CD, CI, CR, DPS, DPT, S?O	CI, CD, CR, DPS, PD	IUCN: Name and Authority, Common Name and Threat Status: <i>Charadrius bicinctus</i> Jardine and Selby, 1827; Double banded plover; Near Threatened. NPS-IB: listed Specified Highly Mobile Fauna Breeding on mainland Aotearoa New Zealand, and some offshore and outlying Islands. In Otago the main breeding concentrations are on brailed rivers but can also be on the block mountains. Mainland birds often migrate several hundreds of kilometres, including to Australia. Birds that breed in lowland Te Waipounamu / South Island rivers generally move north to harbours and estuaries of the northern Te Ika-a-Maui / North Island. Others that breed at coastal lagoons and beaches may move only a few
Cyanoramphus	yellow-	kākāriki	Declining	C (1)			1000-5000	Decreasing	Medium	Low	CI, CR,	CI, CR,	kilometres. IUCN: Common Name and
auriceps Kuhl, 1820	crowned parakeet		booming	0(.)				: 10–30 %	mouldin	2011	DPS, DPT, EF	DPS, DPT, EF	Threat Status: yellow-fronted parakeet; Near Threatened.

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Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Endemic	Regional Population	Regional Trend	Regional Confidenc e Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
Falco novaeseelandiae novaeseelandiae (Gmelin 1788)	eastern falcon	kārearea	Nationally Vulnerable	B (1)	Yes		1000–5000	Stable: ±10 %	Medium	Low	DPR, DPS, DPT, NStr	CR, DPS, DPT	Checklist Committee: Name and Authority, and Commor Name: Falco novaeseelandiae (Gmelin 1788); New Zealand falcon
													IUCN: Name and Authority Common Name and Threat Status: <i>Falco novaeseelandiae</i> (Gmelin 1788); New Zealand falcon; Least Concern.
													NPS-IB: listed Specified Highly Mobile Fauna
													Difficult to distinguish forms i more than one was found in Otago.
Haematopus finschi Martens, 1897	South Island pied oystercatcher	tõrea	Declining	C (1)	Yes		1000–5000	Decreasing : 30–50 %	High	Medium	CD, CI, NStr	CI	IUCN: Common Name an Threat Status: South Islan oystercatcher; Least Concern.
													NPS-IB: listed Specified Highly Mobile Fauna
Haematopus unicolor J.R. Forster, 1844	variable oystercatcher	tõrea pango	Recovering	B (1)			1000-5000	Stable: ±10 %	Low	Low	CI, DPS, DPT	CI, Inc	IUCN: Threat Status: Leas Concern.
													NPS-IB: listed Specified Highly Mobile Fauna
Larus bulleri Hutton, 1871	black-billed gull	tarāpuka	Declining	C (1)			1000-5000	Decreasing : 10-30 %	High	Medium	CI, CR	CI, CR, RF	Checklist Committee: Nam and Authority: Chroicocephalu bulleri (Hutton, 1871). IUCN: Threat Status: Leas
													Concern. NPS-IB: listed Specified Highl Mobile Fauna

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Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Endemic	Regional Population	Regional Trend	Regional Confidenc e Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
Leucozerbo chalconotus G.R. Gray, 1845	Otago shag	matapo	Nationally Increasing	B (1)	Yes	Yes	1000-5000	Stable: ±10 %	Medium	High	CD, Cl, DPR, NStr, RE, RR, TL	CI, CD	IUCN: Name and Authority Common Name and Three Status: Leucocarb chalconotus (Gray, 1845) Stewart Island shag; Vulnerable Holocene fossil and archaeological amidde assemblages indicate a forme wider distribution across the eastern Te Waipournamu South Island but following human arrival becamu restricted to rocky cliffs and islands off Otago. They havy recently extended their rang northwards and southwards and now occur from th southern Catlins north to the Waitaki River. Using ancien DNA analyses, the Otago star (matpo and Foveaux shag mapo were taxonomically spil in 2016 (Rawlence et al. 2016) Current genetic knowledg suggests the taxon is at risi Recent research since th national assessment suggest the species is not having a population increase > 10% bu would have a stable count o ±10 % between 2007 and 202: (Parker & Rexer-Huber 202). TL = Õamaru
<i>Limosa lapponica baueri</i> Naumann, 1836	eastern bar- tailed godwit	kūaka	Declining	C (1)			1000–5000	Decreasing : 10–30 %	High	High	CI, RR, TO	CI, RR, TO	IUCN: Name and Authorit Common Name and Thre Status: Limosa lapponic (Linnaeus, 1758); Bar-taile godwit; Near Threatened. NPS-IB: listed Specified High Mobile Fauna
<i>Mohoua</i> <i>ochrocephala</i> (Gmelin, 1789)	mohua / yellowhead	mohua	Declining	C (1)	Yes		1000-5000	Decreasing : 10–30 %	Medium	Medium	CD, CI, NStr, PF	CI, CD, CR, PD, PF, RR	IUCN: Common Name an Threat Status: yellowhead Near Threatened.

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Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Endemic	Regional Population	Regional Trend	Regional Confidenc e Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
Ninox novaeseelandiae novaeseelandiae Gmelin, 1788	ruru	ruru	Not Threatened	C (1)			1000-5000	Decreasing : 10–30 %	Low	Low	CR, DPS, DPT		IUCN: Name and Authority, Common Name and Threat Status: <i>Ninox novaeseelandiae</i> Gmelin, 1788. Morepork; Least Concern
													Widespread in Aotearoa New Zealand but sparingly distributed in eastern drier areas of Te Waipounamu / South Island, especially south of Otautahi / Christchurch including in Otago.
Pachyptila turtur (Kuhl, 1820)	fairy prion	tītī wainui	Relict	B (1)			1000–5000	Stable: ±10 %	Medium	Medium	CI, RR, SO, TL	CD, RR, SO	IUCN: Threat Status: Least Concern. TL = Holotype. Accession
Petroica australis australis Sparrman, 1788	South Island robin	kakaruai	Declining	C (1)			1000-5000	Decreasing : 10–30 %	Low	Low	CD, DPS, DPT, PD, PF	CI, CD, DPT	number: LB11556 IUCN: Name and Authority, and Threat Status: Petroica australis (Sparman, 1788); Least Concern. NPS-IB: listed Specified Highly Mobile Fauna
													Disjunct distribution through Te Waipounamu / South Island. The Ötepoti Dunedin populations are isolated from others.
Phalacrocorax melanoleucos brevirostris Gould, 1837	little shag	kawaupaka	Relict	B (1)			1000-5000	Stable: ±10 %	Medium	Low	DPS	CR, DPT	Checklist Committee: Name and Authority: Microcarbo melanoleucos brevirostris (Gould, 1837).
													IUCN: Name and Authority, Common Name and Threat Status: Microcarbo melanoleucos (Vieillot, 1817); Little pied cormorant; Least Concern.

Continued next page

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Regionally Vulnerabl Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Endemic	Regional Population	Regional Trend	Regional Confidenc e Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
Podiceps cristatus australis Gould, 1844	Australasian crested grebe	pûteketeke	Nationally Vulnerable	A (1)	Yes		250-1000	Increasing: >10 %	High	High	Inc, NStr, SO, TL	DPS, Inc, SO	IUCN: Name and Authority Common Name and Three Status: Podiceps cristatu (Linnaeus, 1759); Great creste grebe; Least Concern. NPS-IB: listed Specified Highl Mobile Fauna TL = Lake Wakatipu Whakatipu Waimāori. Total counts of adults acros water bodies in Otago hav
													been increasing since 2004 Counts rose from a total of 96 i the 2004 census to 173 in 2014 and 384 adults were counted i 2024 (Walker et al. in prep).
Puffinus griseus (Gmelin, 1789)	sooty shearwater	titi I	Declining	B (1)			1000–5000	Stable: ±10 %	Low	Low	CD, CI, DPS, DPT, SO	CI, CD, SO	Checklist Committee: Nam and Authority: Ardenna grise (Gmelin, 1789). IUCN: Name and Authority, an Threat Status: Ardenna grise (Gmelin, 1789); Least Concerr Although a widely distribute
-								_					seabird, only small breedin populations are now found i Otago, at multiple sites.
Sterna striata striata Gmelin, 1789	white-fronted tern	tara	Declining	В (1)			1000-5000	Stable: ±10 %	Low	Low	CI, CR, DPS, DPT	CI, CR, DPT	Checklist Committee: Nam and Authority: Sterna striat (Gmelin, 1789). IUCN: Name and Authority, an Threat Status: Sterna striat Gmelin, 1789; Nea Threatened. NPS-IB: listed Specified Highl
Stictocarbo punctatus (Sparrman, 1786)	spotted shag	kawau tikitiki	Nationally Vulnerable	C (1)			1000-5000	Decreasing : 10–30 %	Low	Low	CI, DPS, DPT	CI, CR	Mobile Fauna. Checklist Committee: Nam and Authority: Phalacrocore punctatus (Sparman, 1786). IUCN: Name and Authority, an Threat Status: Phalacrocore punctatus Sparman, 178 Least Concern.

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas?; T?O = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Maori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Regionally At Risk (4)

Taxa that meet the criteria specified by Townsend et al. (2008) and Michel (2021) for the statuses Regionally Declining, Regionally Recovering, Regionally Relict or Regionally Naturally Uncommon.

Regionally Declining (3)

Criteria for Regionally Declining:

A – moderate to large population and low ongoing or forecast decline of 10–30%

- A(1) 5000–20,000 mature individuals
- A(2) Total area of occupancy \leq 1000 ha (10 km²)

B – large population and low to moderate ongoing or forecast decline of 10–50%

- B(1) 20,000–100,000 mature individuals
- B(2) Total area of occupancy \leq 10,000 ha (100 km²)

C – very large population and low to high ongoing or forecast decline of 10–70%

- C(1) > 100000 mature individuals
- C(2) Total area of occupancy > 10,000 ha (100 km²)

Table 1.4.1: Regionally Declining bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	Regional Population	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
REGIONALLY DECL	INING (3)										
Taxonomically detern	ninate (3)										
Bowdleria punctata punctata Quoy & Gaimard, 1830	South Island fernbird	mātātā	Declining	A (1)	5000-20000	Decreasing: 10–30 %	Low	Low	DPS, DPT	CI, DPS, DPT	Checklist Committee: Name and Authority: Poodytes punctatus punctatus (Quoy & Gaimard, 1830) IUCN: Name and Authority. Common Name and Threat Status: Poodytes punctatus (Quoy & Gaimard, 1830); New Zealand fernbird; Least Concern.
Mohoua novaeseelandiae (Gmelin, 1789)	brown creeper	pipipi	Not Threatened	A (1)	5000-20000	Decreasing: 10–30 %	Medium	Low	CR, DPS, DPT, PD		NPS-IB: listed Specified Highly Mobile Fauna IUCN: Common Name and Threat Status: Pipipi; Least Concern. Found on Te Waipounamu / South Island and Rakiura / Stewart Island, persisting at sites that appear isolated from main populations (e.g., Naseby and the Manitoto plains, hills around Tähuna Queenstown, Pigeon Island / Wawahi Waka, Central Otago, and coastal Otago centred on Otepoti Dunedin). In Otago, possible cryptic decline based on abundance where mammalian predator control or elimination occurs. As the primary host for the long-tailed cuckoo / koekoeâ on Waipouramu / South Island and Rakiura / Stewart Island, research could investigate the impact of decline on the parastitic cuckoos. The Partial Decline qualifier is due to Orokonui Ecosanctuary – Te Korowai o Mihiwaka, where introduced mammals have been eliminated except for the house mouse (<i>Mus musculus</i>).
Zosterops lateralis lateralis Latham, 1802	silvereye	tauhou	Not Threatened	В (1)	2000-	Decreasing: 10–30 %	Medium	Low	CR, DPS, SO	SO	IUCN: Name and Authority, and Threat Status: Zosterops lateralis (Latham, 1801); Least Concern. NZ Garden Bird Survey shows a shallow decline regionally for the 10-year period from 2013–2023 and a moderate decline regionally for the 5-year period from 2018–2023, respectively, steeper than other parts of the country showing a decline. Additionally, disease events have occurred In Otago, hence the Conservation Research qualifier selected with this being a possible explanation for the decline.

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas?; TO = Threatened Overseas; TO? = Threatened Overseas; TO? = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; SP = Biologically Sparse; TL = Type Locality.

*Most common Māori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Regionally Recovering (1)

Criteria for Regionally Recovering:

Taxa that have undergone a documented decline within the last 1000 years to a population size of 5000-20,000 mature individuals or a total area of occupancy of ≤ 1000 ha (10 km²) and now have an ongoing or predicted increase of > 10% in the total population or area of occupancy, taken over the next 10 years or three generations, whichever is longer. Taxa that are increasing but have a population size of < 5000 mature individuals (or total area of occupancy of < 100 ha) are listed in one of the Threatened categories, depending on their population size [for more details, see the description of Nationally Increasing above and Townsend et al. (2008)].

Table 1.4.2: Regionally Recovering bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Criteria	National Stronghold	Regional Population	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
REGIONALLY RE	COVERNG (1)											
Taxonomically dete	erminate (1)											
Larus novaehollandiae scopulinus J. R. Forster, 1843	red-billed gull	tarāpunga	Declining		Yes	5000-20000	Increasing: >10 %	High	High	Cl, NStr	CI	Checklist Committee: Name and Authority: Chroicocephalus novaehollandiae scopulinus (J.R. Forster, 1843) IUCN: Name and Authority, Common Name and Threat Status: Larus novaehollandiae Stephens, 1826; Silver gult; Least Concern. NPS-IB: listed Specified Highly Mobile Fauna. Mammalian predator control on the Otago Peninsula / Muaipoko since the 1980s has seen the population increase.

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas?; T?O = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Maori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Regionally Non-resident Native (135)

Taxa whose natural presence in Otago is either discontinuous (Regional Migrant) or sporadic or temporary (Regional Vagrant) or which have succeeded in recently (since 1950) establishing a resident breeding population (Regional Coloniser).

Regional Migrant (36)

Criteria for Regional Migrant:

Taxa that predictably and cyclically visit Otago as part of their normal life cycle (a minimum of 15 individuals known or presumed to visit per year), but do not breed here.

Table 1.5.1: Regional Migrant bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National	National	Regional	National	Notes
		Conservation Status	Conservation Status	Qualifiers	Qualifiers	
REGIONAL MIGRANT (36)						
Taxonomically determinate (36)						
Ardea modesta J.E. Gray, 1831	white heron	kõtuku	Nationally Critical		CR, OL, SO, St	Checklist Committee: Name and Authority: Ardea alba modesta J.E. Gray, 1831
					31	IUCN: Name and Authority, Common Name and Threat Status: Ardea alba Linnaeus, 1758; Great white egret; Least Concern.
						NPS-IB: listed Specified Highly Mobile Fauna.
Catharacta antarctica lonnbergi Mathews, 1912	subantarctic skua	hākoakoa	Nationally Vulnerable		Sp, CD	Checklist Committee: Name and Authority: Stercorarius antarctica lonnbergi Mathews, 1912
						IUCN: Name and Authority, Common Name and Threat Status: Catharacta antarctica (Lesson, 1831); Brown skua; Least Concern
Daption capense australe, Mathews, 1913	Snares Cape petrel	karetai hurukoko*	Naturally Uncommon		CI, CD, CR, DPT, RR	IUCN: Name and Authority, Common Name and Threat Status: Daption capense (Linnaeus, 1758); Cape petrel; Least Concern.
Daption capense capense (Linnaeus, 1758)	Antarctic cape petrel	karetai hurukoko*	Migrant		SO	IUCN: Name and Authority, Common Name and Threat Status: Daption capense (Linnaeus, 1758); Cape petrel; Least Concern.
Diomedea antipodensis antipodensis Robertson & Warham, 1992	Antipodean wandering albatross	toroa	Nationally Critical		CI, CD, CR, IE, RR	UCN: Name and Authority, Common Name and Threat Status: Diomedea exulans Linnaeus, 1758; Wandering albatross; Vulnerable.
Diomedea antipodensis gibsoni Robertson & Warham 1992	Gibson's wandering albatross	toroa	Nationally Critical		CI, CD, CR, IE, OL	IUCN: Name and Authority, Common Name and Threat Status: Diomedea exulans Linnaeus, 1758; Wandering albatross; Vulnerable.
Diomedea epomophora Lesson, 1825	southern royal albatross	toroa	Nationally Vulnerable		CI, CD, CR, DPT, RR	IUCN: Threat Status: Vulnerable

Continued next page

Regionally Migrant continued

Name and Authority Common Name Eudyptes pachyrhynchus G.R. Gray, 1845 Fiordland crester penguin Fregetta tropica (Gould, 1844) black-bellied str. Fregetta tropica (Gould, 1844) black-bellied str. Fulmarus glacialoides A. Smith, 1826 Antarctic fulmar Garrodia nereis (Gould, 1841) grey-backed str. Hydroprogne caspia (Pallas, 1770) Caspian term Macronectes piganteus (Gmelin, 1789) southern giant p Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, 1912 northern giant p 1912 Pachyptila vittata Forster.G, 1777 broad-billed prich Pelagodroma marina maoriana Mathews, 1912 New Zealand w southern girt p southern girt p Pacanoides urinatria chathamensis Murphy southern diving and Harper, 1916 Phalacrocorax varius varius Gmelin, 1789 pied shag	Conservation Sta ed tawaki orm petrel takahikare-rangi orm petrel reoreo* taranui taranui petrel pângurunguru* petrel pângurunguru innet tăkapu petrel i		TL	National Qualifiers Sp CD, DPS, DPT, De, RR SO CD, RR, SO Sp, CI, SO So Inc, RR, SO CI, De, Inc, SO	Notes IUCN: Common Name and Threat Status: Fiordland penguin; Near Threatened. TL = Waikouaiti Although Fiordland crested penguin / tawaki now breed mainly in South Westland, many sites in Te Rua-o-Te-Moko / Fiordland, Hautere / Solander Island, Whenua Hou / Codifish Island and Rakiura / Stewart Island and outliers, historic accounts and fossil records suggest breeding was more widespread in the past, including in Otago. IUCN: Threat Status: Least Concern. IUCN: Name and Authority, Common Name and Threat Status: Fulmarus glacialoides (Smith, 1840); Southern fulmar; Least Concern. IUCN: Threat Status: Least Concern.
Fregetta tropica (Gould, 1844) black-bellied str Fregetta tropica (Gould, 1844) black-bellied str Fulmarus glacialoides A. Smith, 1826 Antarctic fulmar Garrodia nereis (Gould, 1841) grey-backed str Hydroprogne caspia (Pallas, 1770) Caspian term Macronectes giganteus (Gmelin, 1789) southern giant [Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, 1912 vilison's storm [Pachyptila vittata Forster,G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel Pelacancides urinatrix chathamensis Murphy southern diving and Harper, 1916	prm petrel takahikare-rangi r petrel reoreo* taranui petrel pângurunguru* petrel pângurunguru tâkapu petrel	Not Threatened Migrant Relict Nationally Vulne Migrant Recovering Not Threatened Migrant		CD, DPS, DPT, De, RR SO CD, RR, SO Sp, CI, SO SO Inc, RR, SO Inc, RR, SO CJ, De, Inc, SO	TL = Waikouatii Although Fiordland crested penguin / tawaki now bread mainly in South Westland, many sites in Te Rua-o-Te-Moko/ Fiordland, Hautere / Solander Island, Whenua Hou / Codifish Island and Rakiura / Stewart Island and outliers, historia accounts and fossil records suggest breeding was more widespread in the past, including in Otago. IUCN: Threat Status: Least Concern. IUCN: Name and Authority, Common Name and Threat Status: Fulmarus glacialoides (Smith, 1840); Southern fulmar, Least Concern. IUCN: Threat Status: Least Concern.
Fregetta tropica (Gould, 1844) black-bellied std Fulmarus glacialoides A. Smith, 1826 Antarctic fulmar Garrodia nereis (Gould, 1841) grey-backed std Hydroprogne caspia (Pallas, 1770) Caspian term Macronectes giganteus (Gmelin, 1789) southern giant p Macronectes giganteus (Gmelin, 1789) southern giant p Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, 1912 Wilson's storm j 1912 Pachryptila vitata Forster,G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel southern diving and Harper, 1916	r reoreo* taranui pangurunguru* pangurunguru* innet tākapu petrel petrel	Migrant Relict Nationally Vulne Migrant Recovering Not Threatened Migrant	able	DPT, De, RR SO CD, RR, SO Sp, Cl, SO SO Inc, RR, SO Cl, De, Inc, SO	Although Fiordland crested penguin / tawaki now breed mainly in South Westland many sites in Te Rua-o-Te-Moko / Fiordland, Hautere/ Solander Island, Whenua Hou, Codifis Hiand and Rakium / Stewart Island and outlieen, historic accounts and fossi records suggest breeding was more widespread in the past, including in Otago. IUCN: Threat Status: Least Concern. IUCN: Name and Authority, Common Name and Threat Status: <i>Fulmarus glacialoides</i> (Smith, 1840); Southern fulmar; Least Concern. IUCN: Threat Status: Least Concern.
Fulmarus glacialoides A. Smith, 1826 Antarctic fulmar Garrodia nereis (Gould, 1841) grey-backed str Hydroprogne caspia (Pallas, 1770) Caspian tern Macronectes giganteus (Gmelin, 1789) southern giant [Macronectes falli Mathews, 1912 northern giant [Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, 1912 Pelchyptila vittata Forster,G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel southern diving and Harper, 1916	r reoreo* taranui pangurunguru* pangurunguru* innet tākapu petrel petrel	Migrant Relict Nationally Vulne Migrant Recovering Not Threatened Migrant	able	DPT, De, RR SO CD, RR, SO Sp, Cl, SO SO Inc, RR, SO Cl, De, Inc, SO	many sites in Te Rua-o-Te-Moko/ Fiordland, Hautere / Solander Island, Whenua Hou, / Codifish Island and Rakiura / Stewart Island and outliers, historic accounts and fossi records suggest breeding was more widespread in the past, including in Otago. IUCN: Threat Status: Least Concern. IUCN: Name and Authority, Common Name and Threat Status: Fulmarus glacialoides (Smith, 1840); Southern fulmar; Least Concern. IUCN: Threat Status: Least Concern.
Fulmarus glacialoides A. Smith, 1826 Antarctic fulmar Garrodia nereis (Gould, 1841) grey-backed str Hydroprogne caspia (Pallas, 1770) Caspian tern Macronectes giganteus (Gmelin, 1789) southern giant [Macronectes giganteus (Gmelin, 1789) southern giant [Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, 1912 Wilson's storm [Pachyptila vittata Forster,G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel southern diving and Harper, 1916	r reoreo* taranui pangurunguru* pangurunguru* innet tākapu petrel petrel	Migrant Relict Nationally Vulne Migrant Recovering Not Threatened Migrant	able	DPT, De, RR SO CD, RR, SO Sp, Cl, SO SO Inc, RR, SO Cl, De, Inc, SO	IUCN: Threat Status: Least Concern. IUCN: Name and Authority, Common Name and Threat Status: Fulmarus glacialoides (Smith, 1840); Southern fulmar; Least Concern IUCN: Threat Status: Least Concern.
Fulmarus glacialoides A. Smith, 1826 Antarctic fulmar Garrodia nereis (Gould, 1841) grey-backed str Hydroprogne caspia (Pallas, 1770) Caspian tern Macronectes giganteus (Gmelin, 1789) southern giant [Macronectes giganteus (Gmelin, 1789) southern giant [Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, 1912 Wilson's storm [Pachyptila vittata Forster,G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel southern diving and Harper, 1916	r reoreo* taranui pangurunguru* pangurunguru* innet tākapu petrel petrel	Migrant Relict Nationally Vulne Migrant Recovering Not Threatened Migrant	able	DPT, De, RR SO CD, RR, SO Sp, Cl, SO SO Inc, RR, SO Cl, De, Inc, SO	IUCN: Name and Authority, Common Name and Threat Status: Fulmarus glacialoides (Smith, 1840); Southern fulmar; Least Concern IUCN: Threat Status: Least Concern. IUCN: Threat Status: Least Concern. NPS-IB: listed Specified Highly Mobile Fauna. IUCN: Threat Status: Least Concern.
Garnolia nerelis (Gould, 1841) grey-backed stic Hydroprogne caspia (Pallas, 1770) Caspian tern Macronectes giganteus (Gmelin, 1789) southern giant p Macronectes balli Mathews, 1912 northern giant p Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, 1912 Wilson's storm p 1912 Pachyptila vittata Forster,G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel Pelecanoides urinatrix chathamensis Murphy southern diving southern diving	orm petrel reoreo* taranui petrel pângurunguru* petrel pângurunguru innet tâkapu petrel	Relict Nationally Vulne Migrant Recovering Not Threatened Migrant	able	SO CD, RR, SO Sp, Cl, SO SO Inc, RR, SO Cl, De, Inc, SO	(Smith, 1840); Southern fulmar; Least Concern IUCN: Threat Status: Least Concern. IUCN: Threat Status: Least Concern. NPS-IB: listed Specified Highly Mobile Fauna. IUCN: Threat Status: Least Concern. IUCN: Threat Status: Least Concern.
Hydroprogne caspia (Pallas, 1770) Caspian tern Macronectes giganteus (Gmelin, 1789) southern giant [Macronectes halli Mathews, 1912 northern giant [Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, 1912 Wilson's storm [Pachyptila vittata Forster,G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel Pelecanoides urinatrix chathamensis Murphy southern diving and Harper, 1916	taranui pangurunguru* pangurunguru* pangurunguru ninet tākapu petrel petrel	Nationally Vulne Migrant Recovering Not Threatened Migrant	able	Sp, CI, SO SO Inc, RR, SO CI, De, Inc, SO	IUCN: Threat Status: Least Concern. IUCN: Threat Status: Least Concern. NPS-IB: listed Specified Highly Mobile Fauna. IUCN: Threat Status: Least Concern. IUCN: Threat Status: Least Concern. IUCN: Threat Status: Least Concern.
Hydroprogne caspia (Pallas, 1770) Caspian tern Macronectes giganteus (Gmelin, 1789) southern giant [Macronectes halli Mathews, 1912 northern giant [Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, 1912 Wilson's storm [Pachyptila vittata Forster,G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel Pelecanoides urinatrix chathamensis Murphy southern diving and Harper, 1916	petrel pångurunguru* betrel pångurunguru innet tåkapu petrel	Migrant Recovering Not Threatened Migrant	able	SO Inc, RR, SO CI, De, Inc, SO	NPS-IB: listed Specified Highly Mobile Fauna. IUCN: Threat Status: Least Concern. IUCN: Threat Status: Least Concern.
Macronectes halli Mathews, 1912 northern giant p Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, 1912 Wilson's storm p Pachyptila vittata Forster,G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel Pelecanoides urinatrix chathamensis Murphy and Harper, 1916 southern diving	petrel pängurunguru innet täkapu petrel	Recovering Not Threatened Migrant		Inc, RR, SO CI, De, Inc, SO	IUCN: Threat Status: Least Concern. IUCN: Threat Status: Least Concern.
Macronectes halli Mathews, 1912 northern giant p Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, Wilson's storm p 1912 Pachyptila vittata Forster,G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel Pelecanoides urinatrix chathamensis Murphy southern diving southern diving	petrel pängurunguru innet täkapu petrel	Recovering Not Threatened Migrant		Inc, RR, SO CI, De, Inc, SO	IUCN: Threat Status: Least Concern.
Morus serrator G.R. Gray, 1843 Australasian ga Oceanites oceanicus exasperatus Mathews, Wilson's storm 1912 Pachyptila vittata Forster, G, 1777 broad-billed priot Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel Pelecanoides urinatrix chathamensis Murphy southern diving southern diving	nnet tākapu petrel	Not Threatened Migrant		CI, De, Inc, SO	
Oceanites oceanicus exasperatus Mathews, 1912 Wilson's storm broad-billed pric Pachyptila vittata Forster, G, 1777 broad-billed pric Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel Pelecanoides urinatrix chathamensis Murphy and Harper, 1916 southern diving	petrel	Migrant		SO	IUCN: Threat Status: Least Concern.
1912 Pachyptila vitiata Forster, G, 1777 broad-billed prior Pelagodroma marina maoriana Mathews, 1912 New Zealand w storm petrel Pelecanoides urinatrix chathamensis Murphy and Harper, 1916 southern diving		-		SO	
Pelagotroma marina maoriana Mathews, 1912 New Zealand w storm petrel Pelecanoides urinatrix chathamensis Murphy and Harper, 1916	on pararā	Relict			IUCN: Name and Authority, and Threat Status: Oceanites oceanicus (Kuhl, 1820); Least Concern.
storm petrel Pelecanoides urinatrix chathamensis Murphy southern diving and Harper, 1916				CD, RR, SO	IUCN: Name and Authority, and Threat Status: Pachyptila vittata (Forster, 1777); Least Concern.
and Harper, 1916	hite-faced takahikare	Relict		CD, RR	
Phalacrocorax varius varius Gmelin, 1789 pied shag	petrel kuaka*	Relict		CD, RR	IUCN: Name and Authority, Common Name and Threat Status: Pelecanoides urinatrix (Gmelin, 1789); Common diving petrel; Least Concern.
	kāruhiruhi	Recovering	CI	CD	IUCN: Name and Authority, Common Name and Threat Status: <i>Phalacrocorax varius</i> Gmelin, 1789; Great pied cormorant; Least Concern.
					NPS-IB: listed Specified Highly Mobile Fauna.
					Mainly a coastal breeding distribution, occurring in three separate areas of Aotearoa New Zealand. Northern Te Ika-a-Mäui / North Island; Central Aotearoa New Zealand; and Southern Te Waipounamu / South Island: Te Rua-o-Te-Moko / Fiordland and Rakiura / Stewart Island.
					While increasingly seen in Otago after having been extirpated in the region, breeding has not yet been confirmed.
Procellaria aequinoctialis Linnaeus, 1758 white-chinned p	etrel karetai kauae mā	Not Threatened		CD, De, RR, TO	IUCN: Threat Status: Vulnerable.
Procellaria cinerea Gmelin, 1789 grey petrel	kuia	Relict		CD, CR, DPT, RR, SO	IUCN: Threat Status: Near Threatened.
Procellaria westlandica Falla, 1946 Westland petrel	l tāiko	Naturally Uncom	mon	CD, CR, OL, St	IUCN: Threat Status: Endangered
Pterodroma cookii (G.R. Gray, 1843) northern Cook's	s petrel tītī	Relict		CD, Inc, RR	Checklist Committee: Name and Authority: Pterodroma cookii cookii (G.R. Gray, 1843)
					IUCN: Common Name and Threat Status: Cook's petrel; Vulnerable.
Pterodroma gouldi (Hutton, 1869) grey-faced petro	el õi	Not Threatened		De, Inc, RR	IUCN: Threat Status: Least Concern.
Pterodroma inexpectata (J.R. Forster, 1844) mottled petrel		Relict		CD, Inc, RR	IUCN: Name and Authority, and Threat Status: Pterodroma inexpectata (Forster, 1844). Near Threatened

Continued next page

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Qualifiers	National Qualifiers	Notes
Puffinus bulleri Salvin, 1888	Buller's shearwater	rako	Declining		CD, CR, DPT, OL, St	Checklist Committee: Name and Authority: Ardenna bulleri (Salvin, 1888) IUCN: Name and Authority, and Threat Status: Ardenna bulleri (Salvin, 1888) Vulnerable.
Puffinus gavia J.R. Forster, 1844	fluttering shearwater	pakahā	Relict		CD, RR	IUCN: Name and Authority, and Threat Status: Puffinus gavia (Forster, 1844); Least Concern.
Puffinus huttoni Mathews, 1912	Hutton's shearwater	Kaikõura tītī	Nationally Vulnerable		CI, CD, OL	IUCN: Name and Authority, Common Name and Threat Status: Least Concern.
Puffinus tenuirostris Temminck, 1836	short-tailed shearwater		Migrant		SO	Checklist Committee: Name and Authority: Ardenna tenuirostris (Temminck, 1836) IUCN: Name and Authority, and Threat Status: Ardenna tenuirostris (Temminck,
						1835). Least Concern
Stercorarius parasiticus (Linnaeus, 1758)	Arctic skua		Migrant		SO	IUCN: Common Name and Threat Status: Arctic jaeger; Least Concern.
Thalassarche bulleri bulleri Rothschild, 1888	southern Buller's mollymawk	toroa	Declining		CD, CR, RR	Checklist Committee: Common Name: southern Buller's albatross IUCN: Name and Authority, Common Name and Threat Status: <i>Thalassarche buller</i> . (Rothschild, 1893); Buller's albatross; Near Threatened.
Thalassarche cauta steadi Falla, 1933	New Zealand white- capped mollymawk	toroa	Declining		CI, CD, CR, EF, RR	Checklist Committee: Common Name: New Zealand white-capped albatross IUCN: Name and Authority, Common Name and Threat Status: <i>Thalassarche stead</i> Falla, 1933; White-capped albatross; Near Threatened.
Thalassarche impavida Mathews, 1912	Campbell Island mollymawk	toroa	Naturally Uncommon		CI, CD, IE, OL	Checklist Committee: Common Name: Campbell Island black-browed albatross IUCN: Common Name and Threat Status: Campbell albatross: Vulnerable.
Thalassarche melanophris (Temminck, 1828)	black-browed mollymawk	toroa*	Coloniser		то	Checklist Committee: Common Name: black-browed albatross
Thalassarche salvini Rothschild, 1878	Salvin's mollymawk	toroa	Nationally Critical		CI, CD, CR, RR	Checklist Committee: Common Name: Salvin's albatross IUCN: Name and Authority, Common Name and Threat Status: Thalassarche salvini (Rothschild, 1993): Salvin's albatross: Vulnerable.

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas?; T?O = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Māori name used in the Notomis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

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Regional Vagrant (97)

Criteria for Regional Vagrant:

Taxa that are found unexpectedly in Otago and whose presence in this region is naturally transitory, or migratory species with fewer than 15 individuals known or presumed to visit per year.

Table 1.5.2: Regional Vagrant bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Qualifiers	National Qualifiers	Notes
REGIONAL VAGRANT (97)						
Taxonomically determinate (97)						
Anas castanea (Eyton, 1838)	chestnut teal		Vagrant		SO	IUCN: Threat Status: Least Concern.
Anas clypeata Linnaeus, 1758	northern shoveler		Vagrant		SO	Checklist Committee: Name and Authority: Spatula clypeata (Linnaeus, 1758).
						IUCN: Name and Authority, and Threat Status: Spatula clypeata (Linnaeus, 1758); Least Concern.
Aptenodytes patagonicus J.F. Miller, 1778	king penguin	tokoraki	Vagrant		SO	IUCN: Name and Authority, and Threat Status: Aptenodytes patagonicus Miller, 1778; Least Concern.
Ardea ibis coromanda Boddaert, 1783	eastern cattle egret		Migrant		SO	Checklist Committee: Name and Authority: Bubulcus ibis coromandus (Boddaert, 1783) IUCN: Name and Authority, Common Name and Threat Status: Bubulcus
						ibis (Linnaeus, 1758); cattle egret Least Concern.
Ardea intermedia plumifera Wagler, 1829	plumed intermediate egret		Vagrant		SO	Checklist Committee: Common Name: plumed egret IUCN: Name and Authority, Common Name and Threat Status: Ardea
						plumifera (Gould, 1848); plumed egret; Least Concern.
Ardea pacifica Latham, 1802	white-necked heron		Vagrant		SO	Checklist Committee: Common Name: Pacific heron IUCN: Name and Authority, and Threat Status: Ardea pacifica Latham, 1801; Least Concern.
Arenaria interpres (Linnaeus, 1758)	ruddy turnstone		Migrant		SO	IUCN: Threat Status: Least Concern.
Artamus personatus (Gould, 1841)	masked woodswallow		Vagrant		SO	IUCN: Threat Status: Least Concern.
Artamus superciliosus (Gould, 1837)	white-browed woodswallow		Vagrant		SO	IUCN: Threat Status: Least Concern.
Aythya australis (Eyton, 1838)	Australian white-eyed duck	karakahia	Vagrant		SO	IUCN: Common Name and Threat Status: hardhead. Least Concern.
Cacomantis flabelliformis flabelliformis Latham, 1802	fan-tailed cuckoo		Vagrant		SO	IUCN: Name and Authority, and Threat Status: Cacomantis flabelliformis Latham, 1801; Least Concern.
Calidris acuminata (Horsfield, 1821)	sharp-tailed sandpiper	kohutapu	Migrant		SO	IUCN: Threat Status: Vulnerable

Continued next page

Regional Vagrant continued

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Qualifiers	National Qualifiers	Notes
Calidris canutus rogersi Mathews, 1913	lesser knot	huahou*	Declining		CI, TO	Checklist Committee: Common Name: red knot
•			, , , , , , , , , , , , , , , , , , ,			IUCN: Name and Authority, Common Name and Threat Status: Calidris canutus (Linnaeus, 1758); red knot; Near Threatened.
						NPS-IB: listed Specified Highly Mobile Fauna.
Calidris ferruginea (Pontoppidan, 1763)	curlew sandpiper		Vagrant		SO	IUCN: Threat Status: Near Threatened.
Calidris melanotos (Vieillot, 1819)	pectoral sandpiper		Vagrant		SO	IUCN: Threat Status: Least Concern.
Calidris ruficollis (Pallas, 1776)	red-necked stint		Migrant		SO	IUCN: Threat Status: Near Threatened.
Catharacta maccormicki (Saunders, 1893)	Antarctic skua		Migrant		SO	Checklist Committee: Name and Authority, and Common Name: Stercorarius maccormicki Saunders, 1893; south polar skua
Charadrius leschenaultii leschenaultii Lesson.	greater and player		Vegrent		SO	IUCN: Common Name and Threat Status: south polar skua; Least Concern. IUCN: Name and Authority, and Threat Status: Charadrius leschenaultii
1826	greater sand plover		Vagrant		50	Lesson, 1826. Greater sandplover. Least Concern.
Charadrius mongolus Pallas, 1776	Mongolian dotterel		Vagrant		SO	Checklist Committee: Common Name: lesser sand plover
						IUCN: Common Name and Threat Status: Siberean sandplover; Endangered.
Charadrius obscurus obscurus Gmelin, 1789	southern New Zealand dotterel	pukunui**	Nationally Critical	FR	CD, DPT, EF, OL	IUCN: Name and Authority, Common Name and Threat Status: Charadrius obscurus Gmelin, 1789; southern red-breasted plover; critically Endangered. NPS-IB: listed Specified Highly Mobile Fauna.
						Extirpated from Te Waipounamu / South Island by about 1900 following introduction of mustellids. Breeding range now confined to Rakiura / Stewart Island, with taxon being conservation dependent.
Charadrius ruficapillus Temminck, 1821	red-capped dotterel		Vagrant		SO	Checklist Committee: Common Name: red-capped plover
						IUCN: Name and Authority, Common Name and Threat Status: Charadrius ruficapillus Temminck, 1822; red-capped plover; Least Concern.
Chenonetta jubata Latham, 1802	Australian wood duck		Coloniser		SO	IUCN: Name and Authority, Common Name and Threat Status: Chenonetta jubata (Latham, 1801); maned duck: Least Concern.
Chlidonias hybridus javanicus Horsfield, 1821	whiskered tern		Vagrant		SO	IUCN: Name and Authority, and Threat Status: Chlidonias hybridus (Pallas, 1811): Least Concern.
Chlidonias leucopterus (Temminck, 1815)	white-winged black tern		Migrant		SO	IUCN: Common Name and Threat Status: white-winged tern. Least Concern.
Coprotheres pomarinus (Temminck, 1815)	pomarine skua		Migrant		SO	Checklist Committee: Name and Authority: Stercorarius pomarinus (Temminck, 1815).
Question manufacture (Question 4700)	black-faced cuckoo-shrike		Managat		SO	IUCN: Common Name and Threat Status: pomarine jaeger; Least Concern.
Coracina novaehollandiae (Gmelin, 1789)	DIACK-TACED CUCKOO-ShTIKE		Vagrant			Concern.
Cuculus optatus Gould, 1845	oriental cuckoo		Vagrant		SO	IUCN: Threat Status: Least Concern.
Cuculus pallidus (Latham, 1801)	pallid cuckoo		Vagrant		SO	Checklist Committee: Name and Authority: Cacomantis pallidus (Latham, 1802).
						IUCN: Threat Status: Least Concern. Continued next page

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Regional Vagrant continued

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Qualifiers	National Qualifiers	Notes
Dacelo novaeguineae Hermann, 1783	laughing kookaburra		Introduced and Naturalised		RR, SO	Checklist Committee: Name and Authority: Dacelo novaeguineae novaeguineae Hermann, 1783.
						IUCN: Name and Authority, and Threat Status: Dacelo novaeguineae novaeguineae (Hermann, 1783); Least Concern.
						Introduced in Otago between the 1860s and 1880, but a population never established. Sightings of single birds have subsequently been recorded in Otago, either from naturalised Northland population or possibly from Australia, being regarded as vagrants (Heather & Robertson 2015), Included as Regionally Vagrant in Otago due to uncertainty of where individuals in the region came from
Dendrocygna eytoni Eyton, 1838	plumed whistling duck		Vagrant		SO	IUCN: Name and Authority, and Threat Status: (Dendrocygna eytoni Eyton, 1838); Least Concern.
Diomedea exulans Linnaeus, 1758	wandering albatross	toroa	Migrant		TO	IUCN: Threat Status: Vulnerable.
Egretta garzetta immaculata Linnaeus, 1766	little egret		Vagrant		SO	IUCN: Name and Authority, and Threat Status: Egretta garzetta (Linnaeus, 1766). Least Concern.
Egretta sacra sacra Gmelin, 1789	reef heron	matuku moana	Nationally Endangered		Sp, CI, CR, DPT, SO	IUCN: Common Name and Threat Status: Egretta sacra (Gmelin, 1789). Pacific reef-egret.
						NPS-IB: listed Specified Highly Mobile Fauna.
Elseyornis melanops (Vieillot, 1818)	black-fronted dotterel		Nintere lie Lie en eren en		00.0-	Possibly breeding but not confirmed. IUCN: Threat Status: Least Concern.
Eudyptes chrysocome J.R. Forster, 1781	western rockhopper penguin	tawaki piki toka*	Naturally Uncommon Vagrant		SO, Sp TO	 IUCN: Inreat Status: Least Concern. IUCN: Name and Authority, Common Name and Threat Status: <i>Eudyptes chrysocome</i> (Forster, 1781); southern rockhopper penguin; Vulnerable.
Eudyptes filholi Hutton, 1879	eastern rockhopper penguin	tawaki piki toka	Nationally Vulnerable		CI, CD, CR, DPT, RR, TO	IUCN: Name and Authority, Common Name and Threat Status: Eudyptes chrysocome (Forster, 1781); southern rockhopper penguin; Vulnerable.
						1 or 2 individuals most years.
Eudyptes robustus Oliver, 1953	Snares crested penguin	pokotiwha	Naturally Uncommon		CD, IE, OL	IUCN: Threat Status: Vulnerable.
Eudyptes schlegeli Finsch, 1876	royal penguin		Vagrant		то	Up to 5 individuals each year. IUCN: Threat Status: Least Concern.
	royarpongan		vagran			1 or 2 individuals most years.
Eudyptes sclateri Buller, 1888	erect-crested penguin	tawaki nana hī	Declining		CI, CD, CR, PD, RR	IUCN: Threat Status: Endangered.
Eurystomus orientalis pacificus (Latham, 1802)	dollarbird		Vagrant		SO	IUCN: Name and Authority, Common Name and Threat Status: Eurystomus orientalis (Latham, 1766); oriental dollarbird; Least Concern.
Falco cenchroides cenchroides Vigors & Horsfield, 1827	Nankeen kestrel		Vagrant		SO	IUCN: Name and Authority, Common Name and Threat Status: Falco cenchroides Vigors & Horsfield, 1827; Nankeen kestrel; Least Concern.
Fregata ariel ariel G.R. Gray, 1845	lesser frigatebird		Vagrant		SO	IUCN: Name and Authority, and Threat Status: Fregata ariel (Gray, 1845); Least Concern.
Gallinago hardwickii J.E Gray, 1831	Japanese snipe		Vagrant		SO	IUCN: Name and Authority, Common Name and Threat Status: Gallinago hardwickii (Gray, 1831); Latham's snipe; Least Concern.
Gallinula chloropus Linnaeus, 1758	common moorhen		Vagrant		SO	IUCN: Name and Authority, and Threat Status: Gallinula tenebrosa (Linnaeus, 1758); Least Concern.
Gallinula tenebrosa Gould, 1846	dusky moorhen		Vagrant		SO	IUCN: Threat Status: Least Concern.
Halobaena caerulea (Gmelin, 1789)	blue petrel		Migrant		SO	IUCN: Threat Status: Least Concern.

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Regional Vagrant continued

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Qualifiers	National Qualifiers	Notes
Himantopus novaezelandiae Gould, 1841	black stilt	kakī	Nationally Critical	FR	CD, CR, RR	IUCN: Threat Status: Critically Endangered.
			·			, ,
						NPS-IB: listed Specified Highly Mobile Fauna.
						Formerly widespread throughout Aotearoa New Zealand. During the 20th
						century the range contracted confined to Waitaha / Canterbury and Otago
						in the 1950s, South Canterbury-North Otago by the 1970s, and the
						Mackenzie Basin / Te Manahuna by the 1980s. Breeding pairs are now
						confined to the area between the Lake Tekapo and Lake Pukaki basins in
						the north to the Ahuriri River in the south.
						Outside the breeding season most black stilt / kakī move locally within the
						Mackenzie Basin / Te Manahuna, but < 10 individuals visit Otago each year.
Hirundapus caudacutus caudacutus Latham,	white-throated needletail		Vagrant		SO	IUCN: Name and Authority, and Threat Status: Hirundapus caudacutus
1802			-			(Latham, 1802). Least Concern.
Lalage tricolor Swainson, 1825	white-winged triller		Vagrant		SO	IUCN: Name and Authority, and Threat Status: Lalage tricolor (Swainson, 1825). Least Concern.
Larus pipixcan Wagler, 1831	Franklin's gull		Vagrant		SO	Checklist Committee: Name and Authority: Leucophaeus pipixcan (Wagler,
						1831).
						IUCN: Threat Status: Least Concern.
Limosa haemastica (Linnaeus, 1758)	American black-tailed		Vagrant		SO	Committee Checklist: Common Name: Hudsonian godwit.
	(Hudsonian) godwit					IUCN: Common Name and Threat Status: Hudsonian godwit; Least
						Concern.
Lugensa brevirostris (Lesson, 1833)	Kerguelen petrel		Migrant		SO	IUCN: Threat Status: Least Concern.
Milvus migrans (Boddaert, 1783)	black kite		Vagrant		SO	IUCN: Threat Status: Least Concern.
Numenius madagascariensis Linnaeus, 1766	eastern curlew		Vagrant		то	IUCN: Name and Authority, Common Name and Threat Status: Numenius
Numenius phaeopus variegatus (Scopoli, 1786)	Asiatic whimbrel		Migrant		SO	madagascariensis (Linnaeus, 1766); far eastern curfew; Endangered. IUCN: Name and Authority, Common Name and Threat Status: Numenius
, , , , ,			÷			phaeopus (Linnaeus, 1758); whimbrel; Least Concern.
Nycticorax caledonicus australasiae Gmelin,	Nankeen night heron	umu kõtuku	Coloniser		DPS, DPT, OL, SO	IUCN: Name and Authority, Common Name and Threat Status: Nycticorax caledonicus (Gmelin, 1789); Rufous night-heron; Least Concern.
1789 Oceanodroma leucorhoa leucorhoa Vieillot.	Leach's storm petrel		Vagrant		SQ	Checklist Committee: Name and Authority: Hydrobates leucorhoa
1818	Leach's storm petrer		vagrant		30	leucorhoa (Vieillot, 1818).
1010						
						IUCN: Name and Authority, and Threat Status: Oceanodroma leucorhoa (Vieillot, 1818); Vulnerable
Pachyptila belcheri (Mathews, 1912)	thin-billed prion	korotangi	Migrant		SO	IUCN: Common Name and Threat Status: slender-billed prion. Least
	-		-			Concern.
Pachyptila desolata Gmelin, 1789	Antarctic prion	totorore	Relict		CD, CR, DPS, DPT, RR, SO	IUCN: Name and Authority, Common Name and Threat Status: Pachyptila desolata (Gmelin, 1789); Least Concern.
Pachyptila salvini Mathews, 1912	Salvin's prion		Migrant		SO SO	IUCN: Threat Status: Least Concern.
Petrochelidon ariel (Gould, 1843)	fairy martin		Vagrant		SO	IUCN: Threat Status: Least Concern.
Petrochelidon nigricans (Vieillot, 1817)	tree martin		Vagrant		SO	IUCN: Threat Status: Least Concern.
Phalacrocorax sulcirostris (Brandt, 1837)	little black shag	kawau tuī	Naturally Uncommon		RR	IUCN: Common Name and Threat Status: little black cormorant; Least
Phalaropus fulicarius (Linnaeus, 1758)	grey phalarope		Vagrant		SO	Concern. IUCN: Common Name and Threat Status: red phalarope; Least Concern.
Phoebetria palpebrata J.R. Forster, 1785	light-mantled sooty	toroa pango	Nationally Vulnerable		CI. CD. CR.	IUCN: Name and Authority, Common Name and Threat Status: Phoebetria
	albatross	toroa parigo	Nationally Vullerable		DPS, DPT, RR, TO	palpebrata (Forster, 1785); light-mantled albatross; Near Threatened.
						Annual visitor to mainland Aotearoa New Zealand waters, but few enter Otago's Coastal Marine Area. A sighting near Taiaroa Head / Pukekura was on December 16, 2016.
Plegadis falcinellus (Linnaeus, 1766)	glossy ibis	1	Coloniser		OL. SO	UCN: Threat Status: Least Concern.
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Regional Vagrant continued

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Qualifiers	National Qualifiers	Notes
Pluvialis fulva (Gmelin, 1789)	Pacific golden plover	kuriri*	Migrant		SO	IUCN: Threat Status: Least Concern.
Pluvialis squatarola (Linnaeus, 1758)	grey plover		Vagrant		SO	IUCN: Threat Status: Least Concern.
Pterodroma externa (Salvin, 1875)	Juan Fernandez petrel		Vagrant		TO	IUCN: Threat Status: Vulnerable.
Pterodroma lessonii (Garnot, 1826)	white-headed petrel		Not Threatened		CD, De, RR, SO DPS	IUCN: Threat Status: Least Concern. Annual visitor to mainland Aotearoa New Zealand waters, but few enter Otago's Coastal Marine Area.
Pterodroma leucoptera caledonica Imber & Jenkins, 1981	New Caledonian petrel		Migrant		то	IUCN: Name and Authority, Common Name and Threat Status: Pterodroma leucoptera (Gould, 1844); white-winged petrel; Vulnerable
Pterodroma mollis (Gould, 1844)	soft-plumaged petrel		Naturally Uncommon		CI, CD, CR, DPT, Inc, OL, SO	IUCN: Threat Status: Least Concern. Annual visitor to mainland Aotearoa New Zealand waters, but few enter Otago's Coastal Marine Area.
Puffinus carneipes Gould, 1844	flesh-footed shearwater	toanui	Relict		CD, Inc, RR, S?O	Checklist Committee: Name and Authority: Ardenna carneipes (Gould, 1844). IUCN: Name and Authority, and Threat Status: Ardenna carneipes (Gould,
						1844); Near Threatened.
Puffinus elegans Giglioli & Salvadori, 1869	Subantarctic little shearwater		Naturally Uncommon		CD, CR, DPT, RR	IUCN: Threat Status: Least Concern. Annual visitor to mainland Aotearoa New Zealand waters, but few enter Otado's Coastal Marine Area.
Puffinus gravis O'Reilly, 1818	great shearwater		Vagrant		SO	Checklist Committee: Name and Authority: Ardenna gravis (O'Reilly, 1818) IUCN: Name and Authority, and Threat Status: Ardenna gravis (O'Reilly,
Pygoscelis adeliae (Hombron & Jacquinot, 1841)	Adelie penguin		Vagrant		SO	1818); Least Concern IUCN: Threat Status: Least Concern
Pygoscelis antarcticus J.R. Forster, 1781	chinstrap penguin		Vagrant		SO	First Otago record was a bird on St Clair Beach, January 2024. IUCN: Name and Authority, and Threat Status: <i>Pygoscelis antarcticus</i>
Pygoscelis papua J.R. Forster, 1781	gentoo penguin		Vagrant		SO	(Forster, 1781); Least Concern Checklist Committee: Name and Authority, and Common Name: Pygoscelis papua taeniata (Peale, 1848); eastern gentoo penguin IUCN: Name and Authority, and Threat Status: Pygoscelis papua (Forster, 1781): Least Concern
Recurvirostra novaehollandiae Vieillot, 1816	red-necked avocet	piwari	Vagrant		SO	IUCN: Threat Status: Least Concern.
Stercorarius longicaudus Vieillot, 1819	long-tailed skua		Migrant		SO	IUCN: Common Name and Threat Status: long-tailed jaeger. Least Concern.
Sterna hirundo longipennis Nordmann, 1835	eastern common tern		Vagrant		SO	Checklist Committee: Common Name: common tern. IUCN: Name and Authority, and Threat Status: <i>Sterna hirundo</i> Linnaeus, 1758; Least Concern.
Sterna paradisaea Pontoppidan, 1763	Arctic tern		Migrant		SO	IUCN: Threat Status: Least Concern.
Sterna vittata bethunei Travers, 1896	New Zealand Antarctic tern		Nationally Increasing		CI, CD, RR	IUCN: Name and Authority, Common Name and Threat Status: Sterna vittata Gmelin, 1789; Antarctic tern; Least Concern
Thalassarche chrysostoma J.R. Forster, 1785	grey-headed mollymawk	toroa*	Nationally Vulnerable		CI, CD, OL, TO	Common Name in Committee Checklist: grey-headed albatross. IUCN: Name and Authority, Common Name and Threat Status: Thalassarche chrysostoma (Forster, 1785); Grey-headed albatross; Endangered. Annual visitor to mainland Aotearoa New Zealand waters, but few enter Otago's Coastal Marine Area.
Thalassarche eremita Murphy, 1930	Chatham Island mollymawk	toroa	Naturally Uncommon		CD, IE, OL	Common Name in Committee Checklist: Chatham Island albatross. IUCN: Common Name and Threat Status: Chatham Island albatross; Vulnerable.

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			Annual visitor to mainland Aotearoa New Zealand waters, but few enter Otago's Coastal Marine Area.
			Continued next page

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Qualifiers	National Qualifiers	Notes
Sternula albifrons sinensis Pallas, 1764	eastern little tern	tara teo	Migrant		SO	IUCN: Name and Authority, and Threat Status: Sternula albifrons (Pallas 1764); Least Concern.
Tachybaptus novaehollandiae novaehollandiae Stephens, 1826	Australasian little grebe	tokitokipio	Coloniser		SO, TL	IUCN: Name and Authority, Common Name and Threat Status Tachybaptus novaehollandiae (Stephens, 1826); Australasian grebe; Little Concern.
Tadorna tadornoides Jardine & Selby, 1828	Chestnut-breasted shelduck		Vagrant		SO	IUCN: Common Name and Threat Status: Australian shelduck; Leas Concern.
Thalassoica antarctica (Gmelin, 1789)	Antarctic petrel		Vagrant		SO	IUCN: Threat Status: Least Concern.
Threskiornis molucca strictipennis (Gould, 1838)	Australian white ibis		Vagrant		SO	Checklist Committee: Name and Authority, and Common Name Threskiomis molucca strictipennis (Cuvier, 1829), white ibis IUCN: Name and Authority, Common Name and Threat Status Threskiomis molucca (Cuvier, 1829: Australian ibis: Least Concern
Threskiornis spinicollis Jameson, 1835	straw-necked ibis		Vagrant		SO	IUCN: Name and Authority, Common Name and Threat Status Threskiornis spinicollis (Jameson, 1835); straw-necked ibis
Tringa brevipes (Vieillot, 1816)	grey-tailed tattler		Vagrant		SO	IUCN: Threat Status: Near Threatened
Tringa cinerea Guldenstaedt, 1774	Terek sandpiper		Vagrant		SO	Checklist Committee: Name and Authority: <i>Xenus cinereus</i> (Güldenstaedt 1774). IUCN: Name and Authority, and Threat Status: <i>Xenus cinereus</i> (Güldenstädt, 1775); Least Concern
Tringa hypoleucos Linnaeus, 1758	common sandpiper		Vagrant		SO	Checklist Committee: Name and Authority: Actitis hypoleucos (Linnaeus 1758). IUCN: Threat Status: Least Concern.
Tringa incana (Gmelin, 1789)	wandering tattler		Vagrant		SO	IUCN: Threat Status: Least Concern.
Tringa nebularia (Gunnerus, 1767)	common greenshank		Vagrant		SO	IUCN: Common Name and Threat Status: common greenshank; Least Concern
Tringa stagnatilis (Bechstein, 1803)	marsh sandpiper		Vagrant		SO	IUCN: Threat Status: Least Concern

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas?; T?O = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Maori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

** Māori name used on Department of Conservation - Te Papa Atawhai website.

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Regional Coloniser (2)

Criteria for Regional Coloniser:

Taxa that otherwise trigger 'Threatened' categories because of small population size, but have arrived without direct or indirect help from humans and have been successfully reproducing in the wild since 1950.

Table 3.5.3: Regional Coloniser bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Qualifiers	National Qualifiers	Notes
REGIONAL CO		Conservation Status	Conscivation Clatus	quanners	quaimers	
Taxonomically of	determinate (2)					
Fulica atra australis Gould, 1845	Australian coot		Naturally Uncommon	Inc, SO	Inc, SO	IUCN: Name and Authority, Common Name and Threat Status: <i>Fulica atra</i> Linnaeus, 1758; common coot; Least Concern. Self-introduced to Aotearoa New Zealand from Australia in the 20 th century, and was first recorded breeding in Aotearoa New Zealand on Lake Hayes / Waiwhakaata, Otago in 1958. There are an estimated 1000–5000 mature individuals in Otago, with an increasing population > 10 %.
Platalea regia Gould, 1838	royal spoonbill	kðtuku ngutupapa	Naturally Uncommon	RR, SO	Inc, RR, SO, Sp	IUCN: Threat Status: Least Concern. First reported in Actearoa New Zealand at Castlepoint / Rangiwhakaoma, Wairarapa, in 1861 (Buller 1869). Breeding in south Westland was suspected in mid-1940s (Stidolph 1948) and confirmed at Waitangiroto white heron / Kotuku colony in 1949 (Oliver 1955). The species has subsequently spread, with breeding reported including in Otago, for example, at Maukiekie Island, Moeraki, 1983–84 (P. Schweigman in Marchant & Higgins 1990); Green Island, Ötepoti Dunedin, 1988 (P. Schweigman in Marchant & Higgins 1990); Nugget Point/ Tokatä, 1995; Taieri Island / Moturata, 1997; Heywood Point, Otago, 2003 (Schweigman 2006); Taiaroa Head / Pukekura, 2004; and the Catlins, 2004 (Schweigman 2006).

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas; TO? = Threatened Overseas; TO? = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Māori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Regionally Not Threatened (22)

Resident native taxa that have large, stable populations.

Table 1.6: Regionally Not Threatened bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN, 2024-1) Red List of Threatened Species; and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System. If the taxon is a specified highly mobile fauna as listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) it is noted.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
REGIONALLY NOT THREATENED	0 (22)								
Taxonomically determinate (22)									
Anas gracilis Buller, 1869	grey teal	tētē-moroiti	Not Threatened	Stable: ±10 %	Medium	Low	DPS	Inc, SO	IUCN: Threat Status: Least Concern
Anas rhynchotis (Latham, 1802)	Australasian shoveler	kuruwhengi	Not Threatened	Stable: ±10 %	Medium	Low	DPS, S?O		Checklist Committee: Name and Authority: Spatula rhynchotis (Latham, 1802). IUCN: Name and Authority, Common Name and Threat Status: Spatula rhynchotis (Latham, 1801); Least Concern. Although no standalone population in Otago, estimates of 5000–20000 mature individuals (Fish and Game, pers. comm, 2023).
Anthornis melanura melanura Sparrman, 1786	bellbird	kõparapara (Käi Tahu)	Not Threatened	Stable: ±10 %	High	Medium	DPS		IUCN: Name and Authority, Common Name and Threat Status: Anthomis melanura (Sparman, 1786). New Zealand bellbird. Least Concern. NZ Garden Bird Survey indicates no or little change in both the 5-year period from 2018–2023 and 10-year period from 2013–2023. There is some variation of trends across the region in both the 5-year period and the 10-year period.
Anthus novaeseelandiae novaeseelandiae Gmelin, 1789	New Zealand pipit	pīhoihoi	Declining	Stable: ±10 %	Low	Low	CI, DPR, DPS, DPT	CI, CR	IUCN: Name and Authority. Common Name and Threat Status: Anthus novaeseelandiae Gmelin, 1789; Australasian pipit; Least Concern. NPS-IB: listed Specified Highly Mobile Fauna. No evidence of a decline in Otago. Well-distributed in suitable habitat in the region, with these types of habitats not as impacted as elsewhere in the country.
Aythya novaeseelandiae (Gmelin, 1789)	New Zealand scaup	pāpango	Not Threatened	Stable: ±10 %	Medium	Low	DPS	Inc	IUCN: Threat Status: Least Concern.
Chrysococcyx lucidus lucidus Gmelin, 1788	shining cuckoo	pīpīwharauroa	Not Threatened	Stable: ±10 %	Low	Low	DPS, DPT		IUCN: Name and Authority. Common Name and Threat Status: Chrysococcyx lucidus (Gmelin, 1788); shining bronze cuckoc; Least Concern. Parasilise grey warblers, who are faring better than other hole-dwelling hosts of cuckoos.

Continued next page

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
Circus approximans Peale, 1848	Australasian harrier	kāhu	Not Threatened	Stable: ±10 %	Low	Low	DPS, DPT, SO	SO	Committee Checklist: Common Name: swamp harrier IUCN: Common Name and Threat Status: swamp harrier; Least Concern.
Cygnus atratus (Latham, 1790)	black swan	kakīānau	Not Threatened	Stable: ±10 %	Medium	Low	DPS, SO	SO	IUCN: Threat Status: Least Concern.
Egretta novaehollandiae (Latham, 1790)	white-faced heron	matuku moana	Not Threatened	Stable: ±10 %	Medium	Low	DPS, SO	SO	Checklist Committee: Name and Authority: Egretta novaehollandiae novaehollandiae (Latham, 1790). IUCN: Threat Status: Least Concern.
									NPS-IB: listed Specified Highly Mobile Fauna.
Eudyptula novaehollandiae (Stephens, 1826) Gerygone igata (Quoy & Gaimard,	Australian little penguin grey warbler	kororă*	Recovering Not Threatened	Stable: ±10 %	Medium	Medium	CD, CI, DPR, NStr, SO	CD, CI, SO	Checklist Committee: Name and Authority: Euclyptula minor novaehollandiac (Stephens, 1826). IUCN: Name and Authority, Common Name and Threat Status: Euclyptule minor J.R. Forster, 1781; Little penguin; Least Concern There are two subspecies recognised by the Checklist of the Birds of New Zealand (Checklist Committee, 2022): 1) Australian populations (<i>E. m.</i> <i>movaehollandiae</i>) and some Otago birds, and 2) all remaining populations including some Otago birds, and 2) all remaining populations including some Otago birds, and 2) all remaining populations including some Otago birds. (<i>Con Strait</i>), <i>E. m.</i> albosignata (the white flippered penguin of North Canterbury), <i>E. m.</i> charhamensis (Chartham Island; / Rěkohu / Wharekauri), and some <i>E. m. minor</i> (southern Aotearoa New Zealand). Southern Australia (including Tasmania) and mainly Otago in Aotearoa New Zealand post-dates human settlement (Grosser et al. 2016).
Hemiphaga novaeseelandiae Gmelin, 1789	kererü / New Zealand pigeon	kererū	Not Threatened	±10 % Stable: ±10 %	Low	Medium	DPT	CD, De, Inc	 IUCN: Common Name and Threat Status: gey gergone: Least Content IUCN: Name and Authority, and Threat Status: Hemiphaga novaeseelandia (Gmelin, 1789); Least Concern.
									NZ Garden Bird Survey indicates a moderate decline in Otago in 5 years from 2018–2023, contrasting to the shallow increase for the 10-year period from 2013–2023. Nationally, there was a shallow increase for the 10-year perior from 2013–2023 and a shallow decline for the 5-year period from 2018–2023 Trends indicate some variation across the region.
Himantopus himantopus leucocephalus Gould, 1837	pied stilt	poaka	Not Threatened	Stable: ±10 %	High	Medium	SO	SO	IUCN: Name and Authority, Common Name and Threat Status: Himantopus himantopus (Linnaeus, 1758); black-winged stilt; Least Concern
Hirundo neoxena neoxena Gould, 1842	welcome swallow	warou	Not Threatened	Stable: ±10 %	Medium	Low	SO	SO, St	IUCN: Name and Authority, and Threat Status: Hirundo neoxena Gould, 1842 Least Concern
Larus dominicanus dominicanus Lichtenstein, 1823	southern black- backed gull	karoro	Not Threatened	Stable: ±10 %	High	Low	DPS, SO	SO	Committee Checklist: Name and Authority: Larus dominicanus Lichtenstein 1823.
Petroica macrocephala macrocephala Gmelin, 1789	South Island tomtit	ngirungiru	Not Threatened	Stable: ±10 %	Medium	Low	DPS		IUCN: Common Name and Threat Status: kelp gull; Least Concern. IUCN: Name and Authority, Common Name and Threat Status: New Zealand tomtit. <i>Petroica macrocephala</i> (Gmelin, 1789); Least Concern
Porphyrio melanotus melanotus Temminck, 1820	pukeko	pükeko	Not Threatened	Stable: ±10 %	Medium	Low	SO	Inc, SO	IUCN: Name and Authority, Common Name and Threat Status: Porphyric porphyric (Linnaeus, 1758). Purple swamphen. Least Concern

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Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
Prosthemadera novaeseelandiae novaeseelandiae (Gmelin, 1788)	τατ	tũĩ	Not Threatened	Increasing: >10 %	Medium	Medium	DPS, INC	Inc	IUCN: Name and Authority, Common Name and Threat Status Prosthermadera novaeseelandiae (Gmelin, 1788); tui; Least Concern. NZ Garden Bird Survey indicate a shallow increase regionally for the 5-year period from 2018–2023 and for the 10-year period from 2013–2023. There was some variation across the region for the 2013-2023 period, but not the 2018 2013 period.
Rhipidura fuliginosa fuliginosa (Sparrman, 1787)	South Island fantail	piwakawaka	Not Threatened	Increasing: >10 %	High	Medium	INC EF	EF	IUCN: Name and Authority, Common Name and Threat Status: <i>Rhipidu</i> <i>fullginosa</i> (Sparrman, 1787). New Zealand fantail; Least Concern NZ Garden Bird Survey indicate a shallow increase regionally for the 5-yea period from 2018–2023 and a moderate increase for the 10-year period fron 2013–2023. There was some variation across the region for both the 2018 2023 and the 2013-2023 period. Populations fluctuate between years, often declining over winter.
Tadorna variegata (Gmelin, 1789)	paradise shelduck	pūtakitaki (Kāi Tahu)	Not Threatened	Stable: ±10 %	High	Medium			IUCN: Threat Status: Least Concern. The moult count trend between 1990–2022 was between -2.5% and +1.7 (Fish and Game, pers. comm. 2023).
Todiramphus sanctus vagans (Lesson, 1828)	New Zealand kingfisher	kõtare	Not Threatened	Stable: ±10 %	Medium	Low	DPS		IUCN: Name and Authority, Common Name and Threat Status: Todiramph sanctus (Vigors & Horsfeld, 1827); sacred kingfisher; Least Concern.
Vanellus miles novaehollandiae Stephens, 1819	spur-winged plover		Not Threatened	Stable: ±10 %	High	Low	DPS, SO	SO	IUCN: Name and Authority, Common Name and Threat Status: Vane spinosus (Linnaeus, 1758); spur-winged lapwing; Least Concern.

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas?; T?O = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Maori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

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Regional Conservation Translocations (3)

Taxa that have been intentionally moved and released to Otago where the primary objective is a conservation benefit but have not established self-sustaining populations. Conservation translocations consist of (i) population restoration, comprising reinforcement and reintroduction within a species' indigenous range, and (ii) conservation introductions, comprising assisted migration and ecological replacement, outside indigenous range.

Table 1.7: Regional conservation translocations of bird taxa in Otago

Name and authority, common name, and threat status from International Union for Conservation of Nature (IUCN) Red List of Threatened Species and name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System as used in this report.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Population	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
CONSERVATION TRANSLOCA	TIONS (3)									
REINTRODUCTION (2)										
Taxonomically determinate (2)	Taxonomically determinate (2)									
Gallirallus australis hectori (Hutton, 1873)	buff weka	weka	Relict	250-1000	Stable: ±10 %	High	High	CD, RN		IUCN: Name and Authority, Common Name and Threat Status: Gallinallus australis Sparman, 1786; Weka; Vulnerable. Reintroduced to five islands in two lakes (Lake Wanaka and Lake Wakatipu / Whakatipu Waimäoni) in and a mainland site (Motatapu Valley) Otago (Miskelly & Powlesland 2013). Reintroduced populations are still present on the islands and individuals were in the Motatapu Valley in 2021.
Porphyrio hochstetteri (A.B. Meyer, 1883)	South Island takahe	takahé	Nationally Vulnerable	-24		High		CD, CI	CI, CD, RR	IUCN: Threat Status: Endangered. Two pairs currently at Orokonui Ecosanctuary – Te Korowai o Mihiwaka; they are free roaming with one pair in the upper sanctuary spearated by a low fence from the other pair in the lower sanctuary due to their being defensive about territories. Due to lack of habitat, a self-sustaining population is not possible. The sanctuary is an important advocacy sile for takahé. In August 2023, 18 takahé (nine pairs) were released into the Greenstone Valley, near Glenorchy at the head of Lake Wakatipu / Whaktipu Waimaori. A further six juveniles were released in November 2023, with ongoing reinforcements planned. <i>Continued on next page</i>

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Population	Regional Trend	Regional Confidence Population	Regional Confidence Trend	Regional Qualifiers	National Qualifiers	Notes
ASSISTED MIGRATION (1)										
Taxonomically unresolved (1)										
Apteryx australis "Haast"	Haast tokoeka	tokoeka*	Nationally Vulnerable	-35	Increasing: >10 %	High	High	CD, IN, Inc, OL	CD, Inc, OL, RF	IUCN: Name and Authority, Common Name and Threat Status: Apteryx australis Shaw, 1813; southern brown kiwi; Vulnerable First released in 2010 at Orokonui Ecosanctuary – Te Korowai o Mihiwaka. Since 2015 the sanctuary has been used as a kiwi crèche as part of the Operation Nest Egg where chicks are raised before release into the wild, while the lower sanctuary where tokoeka were first released is a free-roaming population. The population of Haast tokoeka in the lower sanctuary is currently estimated to be -35 birds (E. Smith, pers. comm.). Given that tokoeka spp. are long-lived with a lengthy generation time, the population is not yet considered self-sustaining.

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas?; T?O = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Maori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Regionally Introduced and Naturalised (25)

Taxa that have become naturalised in the wild after being deliberately or accidentally introduced into Otago by human agency.

Table 1.8: Regionally Introduced and Naturalised bird taxa in Otago

Name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System as used in this report.

Linnaeus, 1758 greylag goose kuihi* Introduced and Naturalised 1000-5000 Low SO Anser anser Linnaeus, 1758 greylag goose kuihi* Introduced and Naturalised 1000-5000 Low SO 1769 Turu nohinohi Introduced and Naturalised 1000-5000 Low SO Branta canadensis Linnaeus, 1758 Canada goose kuihi* Introduced and Naturalised 5000-20000 Low SO Cacatua galerita (Lanham, 1790) cockato of cockato o Introduced and Naturalised 5000-20000 Low SO Checklist Committee: Name and Authority: Branta canadensis maxima Linnaeus, 1758. Caliloppia californica Shaw, 1738 Sulphur-crested (Latham, 1790) Introduced and Naturalised <250 High SO, Sp Caliloppia californica Shaw, 1738 California quait tikaokao Introduced and Naturalised 5000-20000 Low SO Checklist Committee: Name and Authority: Calipepia californica brunnescens Ridge 1884. Linnaeus, 1758 European goldinch Introduced and Naturalised >100000 Low SO Checklist Committee: Name and Authority: Carduelis carduelis brity in both Te las-4Mai / North Is and Te Waiponamau / South Islanako / Noth Vale and Te Waiponamau / South Islanko / No	Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	Regional Population	Regional Confidence Size	National Qualifiers	Notes
Audu available Eurasian skylark kairaka* Introduced and Naturalised >100000 Medium SO Carbon Studier (LE. (arg. 1330) chekor chekor introduced and Naturalised 250-1000 Low SO Anase platyrhynchos Linnaeus, 1758 mallard duck rakiraki Introduced and Naturalised 250-1000 Low SO Checklist Committee: Name and Authority, and Common Name: Anas platyrhyn platyrhynchos Linnaeus, 1758, mallard. Anse anser Linnaeus, 1758 greylag goose kuhi* Introduced and Naturalised 1000-5000 Low SO Checklist Committee: Name and Authority. and Common Name: Anas platyrhyn platyrhynchos Linnaeus, 1758, mallard. Anser anser Linnaeus, 1758 greylag goose kuhi* Introduced and Naturalised 1000-5000 Low SO Checklist Committee: Name and Authority. Branta canadensis maxima Linnaeus, 1758. Linnaeus, 1758 Ganata goose kuhi* Introduced and Naturalised 500-2000 Low SO Checklist Committee: Name and Authority. Canadensis maxima Linnaeus, 1758. Linnaeus, 1758 Galdronia guait ikaokao Introduced and Naturalised SO Checklist Committee: Name and Authority: Calipepla californ	INTRODUCED AND NAT	URALISED (25)						
Linnaeus, 1758 Analysis Naturalised And And Ardeoris chuker (ary, 130) chukor introduced and Naturalised 250–1000 Low S0, Sp Anas playrhynchos Linnaeus, 1758 mallard duck rakiraki Introduced and Naturalised >100000 Medium SO Checklist Committee: Name and Authority, and Common Name: Anas playrhyn playrhynchos Linnaeus, 1758; mallard. Anser anser Linnaeus, 1758 greylag goose kuhl* Introduced and Naturalised 1000-5000 Low SO Introduced and Playrhynchos Linnaeus, 1758; mallard. Anser anser Linnaeus, 1758 ruru onbinchi Introduced and Naturalised 1000-5000 Low SO Introduced and Naturalised SO 1769 ruru onbinchi Introduced and Naturalised 500–2000 Low SO Checklist Committee: Name and Authority: Branta canadensis maxima Linnaeus, 1758. Caractua galeria (Latham, 1790) subplur-creased Naturalised Introduced and Naturalised 500–2000 Low SO Checklist Committee: Name and Authority: Callipepla callomica brunnescens Ridge 10000 Caractualis carduelis (Latham, 1798) Callornia quall tikokao Introduced and Nat	Taxonomically determinat	e (25)						
Gray, 1330) Cance Naturalised Cance		Eurasian skylark	kairaka*		>100000	Medium	SO	
Linnaeus, 1758 revised Naturalised Introduced and Naturalised SO <i>Cacatua galerila</i> (Lanaeus, 1758) Canada goose kuihi* Introduced and Naturalised 1000-5000 Low SO Checklist Committee: Name and Authority: Branta canadensis maxima Linnaeus, 1758. Cacatua galerila (Lanaeus, 1758) Sulphur-crested cockatoo kuihi* Introduced and Naturalised <250		chukor			250-1000	Low	SO, Sp	
1758 Naturalised Naturalised Naturalised Naturalised Naturalised Aithen noctua (Scopoli, 1769) Ittle owl nuru nohinohi Introduced and Naturalised 1000-500 Low SO Branta canadensis Linnaeus, 1758 Canada goose kulhi* Introduced and Naturalised 5000-20000 Low SO Checklist Committee: Name and Authority: Branta canadensis maxima Linnaeus, 1758. Cacatua galerita (Latham, 1790) sulphur-crested cockatos Introduced and Naturalised <250		mallard duck	rakiraki		>100000	Medium	SO	Checklist Committee: Name and Authority, and Common Name: Anas platyrhynchos platyrhynchos Linnaeus, 1758; mallard.
1769) Naturalised Naturalised Naturalised Naturalised Naturalised Naturalised Naturalised Source Checklist Committee: Name and Authority: Branta canadensis maxima Linnaeus, 1758. Cacatua galerita (Lannaeus, 1758) sulphur-crested (cockatoo Introduced and Naturalised <250		greylag goose	kuihi*		1000-5000	Low	SO	
Linnaeus, 1758 So, Sp Cacatua galerita (Latham, 1790) sulphur-crested cockatoo Introduced and Naturalised <250		little owl	ruru nohinohi		1000-5000	Low	SO	
(Latham, 1790) cockatoo Naturalised Naturalised Naturalised Naturalised Source Californica Source Checklist Committee: Name and Authority: Californica brunnescens Ridge Shaw, 1798 European Kourarini Introduced and >100000 Low So Checklist Committee: Name and Authority: Californica brunnescens Ridge Introduced to Aotearoa New Zealand from 1865 to 1875 in both Te Ika-a-Mäui / North Is and Te Waipounamu / South Islands (Thomora 1922) with subsequent liberation Aotearoa New Zealand from 1865 to 1875 in both Te Ika-a-Mäui / North Is and Te Waipounamu / South Islands (Thomora 1922) with subsequent liberation Aotearoa New Zealand bred stock. Now widely distributed. Carduelis cardue		Canada goose	kuihi*		5000-20000	Low	SO	Checklist Committee: Name and Authority: Branta canadensis maxima Linnaeus, 1758.
Shaw, 1798 Naturalised Naturalised 1884. 1884. Carduelis carduelis Low So Landow interest Name and Authority: Chloris chloris (Linnaeus, 1758). Carduelis chloris European Naturalised >100000 Low SO Carduelis chloris European Introduced and Naturalised >100000 Low SO Checklist Committee: Name and Authority: Chloris chloris (Linnaeus, 1758). Carduelis chloris European Introduced and Naturalised >100000 Low SO Checklist Committee: Name and Authority: Chloris chloris (Linnaeus, 1758). Carduelis chloris European Introduced and Naturalised >100000 Low SO Checklist Committee: Name and Authority: Chloris chloris (Linnaeus, 1758). Carduelis chloris European Introduced and Naturalised >100000 Low SO Checklist Committee: Name and Authority: Chloris chloris (Linnaeus, 1758). Carduelis filammea common redpoil Introduced and >100000 Low SO Checklist Committee: Name and Authority: Chloris chloris (Linnaeus, 1758). Carduelis filammea common redpoil Introduced and >100000 Low SO Checklist Committee: Name and Authority: Chlor					<250	High	SO, Sp	
Image: Carduelis ca		California quail	tikaokao		5000-20000	Low	SO	Checklist Committee: Name and Authority: Callipepla californica brunnescens Ridgeway 1884.
Linnaeus, 1758 goldfinch Naturalised Naturalised SO Checklist Committee: Name and Authority: Chloris chloris (Linnaeus, 1758). Carduelis choris (Linnaeus, 1758) European greenfinch Introduced and Naturalised >100000 Low SO Checklist Committee: Name and Authority: Chloris chloris (Linnaeus, 1758). NZ Garden Bird Survey indicate a shallow increase regionally for the 5-year period 2018–2023 and for the 10-year period from 2013–2023. The last 5 years from 201 indicated some variation across the region. Carduelis flammea common redpoll Introduced and >100000 Low SO Checklist Committee: Name and Authority: Canthis flammea (Linnaeus, 1758).								Introduced to Aotearoa New Zealand from 1865 to 1875 in both Te Ika-a-Māui / North Island and Te Waipounamu / South Islands (Thomson 1922) with subsequent liberations of Aotearoa New Zealand-bred stock. Now widely distributed.
(Linnaeus, 1758) greenfinch Naturalised Figure 1 Naturalised Naturalised NZ Garden Bird Survey indicate a shallow increase regionally for the 5-year period 2018–2023 and for the 10-year period zo18–2023 and for the 10-year period zo18–2023. The last 5 years from 2011 indicated some variation across the region. Carduelis filammea common redpoil Introduced and >100000 Low SO Checklist Committee: Name and Authority: Acanthis filammea (Linnaeus, 1758).			kõurarini		>100000	Low	SO	Checklist Committee: Name and Authority: Carduelis carduelis britannica Hartert, 1903.
Carduelis flammea common redpoil Introduced and >100000 Low SO Checklist Committee Name and Authority: Acanthis flammea (Linnaeus, 1758).					>100000	Low	SO	Checklist Committee: Name and Authority: Chloris chloris (Linnaeus, 1758).
								NZ Garden Bird Survey indicate a shallow increase regionally for the 5-year period from 2018–2023 and for the 10-year period from 2013–2023. The last 5 years from 2018-23 indicated some variation across the region.
		common redpoll			>100000	Low	SO	Checklist Committee: Name and Authority: Acanthis flammea (Linnaeus, 1758).

Continued next page

Regionally Introduced and Naturalised continued

Name and Authority	Common Name	Māori Name from National	National Conservation	Regional	Regional	National	Notes
		Conservation Status	Status	Population	Confidence Size	Qualifiers	
Columba livia Gmelin, 1789	rock pigeon	kererū aropari*	Introduced and Naturalised	20000- 100000	Medium	SO	
Corvus frugilegus Linnaeus, 1758	rook		Introduced and Naturalised	<250	Low	SO	Estimated to be ~10 birds in Otago as of September 2024 (Simon Stevenson, ORC, pers. comm. 2024)
Emberiza cirlus Linnaeus, 1766	cirl bunting		Introduced and Naturalised	250-1000	Low	SO, Sp	
Emberiza citrinella Linnaeus, 1758	yellowhammer	hurukōwhai	Introduced and Naturalised	>100000	Low	SO	
Fringilla coelebs Linnaeus, 1758	chaffinch	pahirini	Introduced and Naturalised	>100000	Low	SO	
Gymnorhina tibicen (Latham, 1801)	Australian magpie	makipai	Introduced and Naturalised	20000- 100000	Low	SO	
Meleagris gallopavo Linnaeus, 1758	wild turkey	korukoru	Introduced and Naturalised	1000-5000	Low	SO	Checklist Committee: Name and Authority, and Common Name: Meleagris gallopavo gallopavo Linnaeus, 1758; Gould's wild turkey
Passer domesticus (Linnaeus, 1758)	house sparrow	tiu	Introduced and Naturalised	>100000	Medium	SO	Checklist Committee: Name and Authority: Passer domesticus domesticus (Linnaeus, 1758).
Phasianus colchicus Linnaeus, 1758	common pheasant		Introduced and Naturalised	1000-5000	Low	SO	
Platycercus eximius (Shaw, 1792)	eastern rosella	kākā uhi whero	Introduced and Naturalised	250-1000	Medium	SO	
Prunella modularis (Linnaeus, 1758)	dunnock		Introduced and Naturalised	>100000	Low	SO	
Sturnus vulgaris Linnaeus, 1758	common starling	tāringi	Introduced and Naturalised	>100000	High	SO	Checklist Committee: Name and Authority: Sturnus vulgaris vulgaris Linnaeus, 1758.
<i>Turdus merula</i> Linnaeus, 1758	Eurasian blackbird	manu pango	Introduced and Naturalised	>100000	Low	SO	Checklist Committee: Name and Authority: Turdus merula merula Linnaeus, 1758.
Turdus philomelos Brehm, 1831	song thrush	manu-kai-hua-rakau	Introduced and Naturalised	>100000	Low	SO	

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas; SO? = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas; TO? = Threatened Overseas; TO? = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locatity.

*Most common Māori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Regionally Introduced, Not Established (10)

Taxa observed in a region where a: 1) release is documented, but with no record of self-sustaining population in the wild; or 2) a deliberate introduction is documented, and published records indicate the species bred (or probably bred), but it is no longer extant.

Table 1.9: Introduced, not established bird taxa in Otago

Name and authority, and common name from Checklist of the Birds of New Zealand (Checklist Committee, 2022) are provided where they differ from the New Zealand Threat Classification System as used in this report.

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	National Qualifiers	Regional Population	Regional Confidence Size	Notes
INTRODUCED, NOT ESTAB							
Taxonomically determinate (1							
Cairina moschata (Linnaeus, 1758)	muscovy duck						Feral individuals reported from Aotearoa New Zealand, including in the Otago.
Cereopsis novaehollandiae Latham, 1801	Cape Barren goose		Introduced and Naturalised	SO, Sp	<250	High	Liberated at Lake Hawea in 1914, where it survived as a small population in the Hawea, Wānaka, and Hunter River area until about 1946 (Williams 1968). Incidental records (e.g., Owaka, 2004; Catlins River, 2011) are also most likely to be escapees from private waterfowd collections.
Chrysolophus pictus (Linnaeus, 1758)	golden pheasant						Introduced to Aotearoa New Zealand, including by Otago Acclimatisation Society.
Cygnus olor (Gmelin, 1789)	mute swan	wāna	Introduced and Naturalised	SO, Sp	<250	High	Introduced to Aotearoa New Zealand during the 19 th century, including in Otago (1868–1869). Although no known populations, single individuals are regularly reported.
Eolophus roseicapillus (Vieillot, 1817)	galah		Introduced and Naturalised	RR, SO	<250	High	Checklist Committee: Name and Authority: Eolophus roseicapilla (Vieillot, 1817). Present in Aotearoa New Zealand as a cage-bird. Small population in South Tämaki Makaurau / Auckland, with presumed escapees recorded elsewhere (e.g., Robertson et al. 2007).
Gallus gallus gallus (Linnaeus, 1758)	feral chicken		Not assessed	SO			Assessed as Introduced and Naturalised in earlier versions of the national assessment but removed from the 2021 national assessment. While known to breed in the wild in Aotearoa New Zealand, no viable wild populations have been established and most enclaves are supplemented by ongoing releases and/or supplementary feeding (Heather & Robertson 2015).
Numida meleagris Linnaeus, 1758	helmeted guineafowl		Introduced and Naturalised	SO, Sp	<250	High	Introduced to Waitaha / Canterbury, in the 1860s, and subsequently elsewhere. Wild populations present in rough farmland in a few Aotearoa New Zealand localities (Robertson et al. 2007).
Nymphicus hollandicus (Kerr, 1792)	cockatiel						
Pavo cristatus Linnaeus, 1758	peafowl	pīkao	Introduced and Naturalised	SO	250–1000	Low	Introduced to Aotearoa New Zealand from 1843 (Thomson 1922). Increasingly common in Northland, western Firth of Thames, Coromandel / Kapanga, Rotorua district, Bay of Plenty / Te Moana-a-Toi, East Cape, King Country, Taranaki, Whanganui district, Tairäwhiti / Gisborne, Mahia, and Hawke's Bay, with some records from north-west Nelson / Whakatū, Mariborough / Te Tauihu-c-te-Waka, and Waitaha / Canterbury (Robertson et al. 2007) and Otago.
Streptopelia risoria 49Linnaeus, 1758	Barbary dove		Introduced and Naturalised	SO, Sp	<250	High	Introduced to Nelson / Whakatū, in 1867, and later to Waitaha / Canterbury and Ôtepoti Dunedin (Thomson 1922). There have been a few Te Waipounamu / South Island sightings (Robertson et al. 2007).

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas; TO? = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; Rel = Relict; RF = Recruitment Failure; Sp = Biologically Sparse; TL = Type Locality.

*Most common Māori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Regionally Not Assessed (2)

Taxa that have been assessed in national assessments in the past but are not assessed in this report

Table 1.10: Not assessed bird taxa in Otago

Name and Authority	Common Name	Māori Name from National Conservation Status	National Conservation Status	National Qualifiers	Notes
NOT ASSESSED (2)					
Taxonomically determinate (2)					
Platycercus elegans (Gmelin, 1788)	crimson rosella	kākā uhi whero*			Assessed as Introduced and Naturalised in earlier versions of the national assessment. However, a breeding population of this species in Otepoli Dunedin died out in the 1950s, the small breeding population in Põneke / Wellington city appears to have died out in the early 200s, and the few birds that have been seen elsewhere in the country are probably recent cage escapes (Heather & Robertson 2015). The national panel assessed that the species is no longer naturalised in Aotearoa New Zealand and so removed it from the 2021 list.
Spheniscus magellanicus (Forster, 1781)	Magellanic penguin			SO	Two Aotearoa New Zealand records, with one in Otago on March 1990, from Otago Harbour (Darby 1991; Guest 1991). Magellanic penguins are typically timid; the bold behaviour of both these birds indicated previous habituation to humans, and so they may have reached Aotearoa New Zealand by ship (Darby 1991; Guest 1991) Excluded from the latest national assessment, because its occurrence in Aotearoa New Zealand is regarded as a failed introduction rather than as a vaorant (Gill et al. 2010).

Regional and national qualifiers: CD = Conservation Dependent; DPR = Data Poor Recognition; DPS = Data Poor Size; DPT = Data Poor Trend; DE = Designated; EF = Extreme Fluctuations; NR = Natural Range Limit; NS = National State; OL = One Location; PD = Partial Decline; RR = Range Restricted; SO = Secure Overseas; SO? = Secure Overseas?; S?O = Secure? Overseas; TO = Threatened Overseas; TO? = Threatened Overseas; TO? = Threatened? Overseas; CI = Climate Impact; CRN = Conservation Research Needed; EW = Extinct in the Wild; INC = Increasing; PF = Population Fragmentation; PE = Possibly/Presumed Extinct; RE = Regional Endemic; RE = Relict; RF = Recruitment Failure; SP = Biologically Sparse; TL = Type Locality.

*Most common Maori name used in the Notomis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

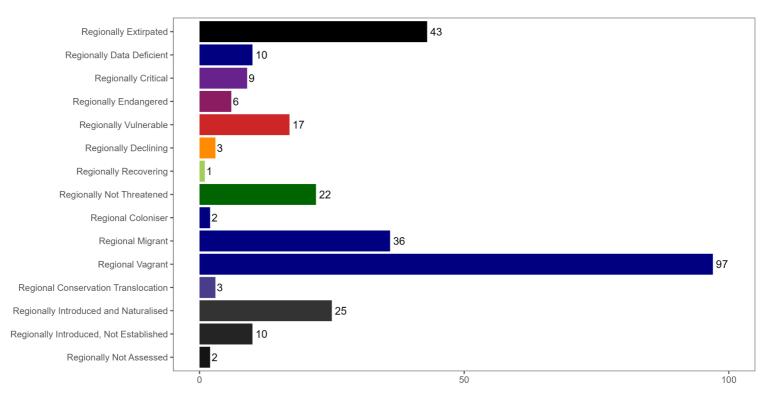


Figure 1: Regional conservation status of birds in the Otago Region.

Although 43 bird species were Regionally Extirpated, two species have been reintroduced to the region and another species has had an assisted migration so there is a total of three extant species with conservation translocations into Otago.

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Table 2: Presence of Regionally Threatened, Regionally At Risk, Regionally Non-resident (Migrant and Coloniser only), Regionally Introduced and Naturalised, and Regionally Conservation Translocated bird taxa by territorial authority or Coastal Marine Area in the Otago Region. The Coastal Marine Area extends from mean high water springs out to the 12 nautical mile (22.2 kilometre) limit of the territorial sea, from the Waitaki River in the north to Wallace Beach in the south. *B* indicates a taxon has been observed breeding in a territorial authority over the last 20 years; *SB* indicates a taxon is suspected to breed in a territorial authority; *P* indicates a taxon was observed to be present in a territorial authority or the Coastal Marine Area; *SP* indicates a taxon is suspected to be present in a territorial authority or the Coastal Marine Area. The Māori name is from the National Conservation Status, except when from Checklist of the Birds of New Zealand as indicated by an asterisk (*)

Name and Authority	Common Name / Māori Name	Central Otago District Council	Clutha District Council	Dunedin City Council	Queenstown Lakes District Council	Waitaki District Council (Otago part only)	Coastal Marine Area
REGIONALLY THREATENED							
REGIONALLY CRITICAL							
Anarhynchus frontalis Quoy & Gaimard, 1830	wrybill / ngutu pare	В	Р	Р	В	SP	Р
Botaurus poiciloptilus (Wagler, 1827)	Australasian bittern / matuku- hūrepo	SB	В	SB	SB		
Cyanoramphus auriceps Kuhl, 1820	yellow-crowned parakeet / kākāriki		В		В		
Diomedea sanfordi Murphy, 1917	northern royal albatross / toroa			В			Р
Hymenolaimus malacorhynchos (Gmelin, 1789)	whio / kōwhiowhio				В		
Megadyptes antipodes (Hombron & Jacquinot, 1841)	yellow-eyed penguin / hoiho		В	В		В	Р
Nestor notabilis Gould, 1856	kea	Р	Р	Р	В	Р	
Porzana tabuensis tabuensis Gmelin, 1789	spotless crake / pūweto	Р	SB	SP	SB		
Xenicus gilviventris rineyi Falla, 1953	southern rock wren / pīwauwau				В		

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Presence by Te	rritorial Authority or Coastal Marine Area
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Name and Authority	Common Name / Māori Name	Central Otago District Council	Clutha District Council	Dunedin City Council	Queenstown Lakes District Council	Waitaki District Council (Otago part only)	Coastal Marine Area
REGIONALLY ENDANGERED							
Chlidonias albostriatus (G.R. Gray, 1845)	black-fronted tern / tarapirohe	В	SB	Р	В	В	Р
Eudynamys taitensis (Sparrman, 1787)	long-tailed cuckoo / koekoeā		В	Р	В		
<i>Gallirallus australis hectori</i> (Hutton, 1873)	buff weka / weka				В		
Nestor meridionalis meridionalis (Gmelin, 1788)	South Island kaka / kākā			В	В		
Phalacrocorax carbo novaehollandiae Stephens, 1826	black shag / kōau	SB	В	В	SB	SB	Р
Porzana pusilla affinis (J.E. Gray, 1845)	marsh crake / kotoreke	SB	В	В	В	SB	
REGIONALLY VULNERABLE							
<i>Charadrius bicinctus bicinctus</i> Jardine and Selby, 1827	banded dotterel / pohowera	В	Р	Р	В	В	Р
Cyanoramphus novaezelandiae novaezelandiae Sparrman, 1787	red-crowned parakeet / kākāriki		В	SB			
Falco novaeseelandiae novaeseelandiae (Gmelin 1788)	eastern falcon / kārearea	В	В	В	В	В	
Haematopus finschi Martens, 1897	South Island pied oystercatcher / tōrea	В	В	В	В	В	Р
Haematopus unicolor J.R. Forster, 1844	variable oystercatcher / tōrea pango		В	В		В	Р
Larus bulleri Hutton, 1871	black-billed gull / tarāpuka	В	Р	Р	В	Р	Р
Leucocarbo chalconotus G.R. Gray, 1845	Otago shag / matapo		В	В		В	Р

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Presence by Territorial Authority or Coa	astal Marin	e Area	

Name and Authority	Common Name / Māori Name	Central Otago District Council	Clutha District Council	Dunedin City Council	Queenstown Lakes District Council	Waitaki District Council (Otago part only)	Coastal Marine Area
<i>Limosa lapponica baueri</i> Naumann, 1836	eastern bar-tailed godwit / kūaka		Р	Р		Р	Р
Mohoua ochrocephala (Gmelin, 1789)	mohua / yellowhead		В		В		
Ninox novaeseelandiae novaeseelandiae Gmelin, 1788	ruru	SB	В	В	В	В	
Pachyptila turtur (Kuhl, 1820)	fairy prion / tītī wainui			В			Р
<i>Petroica australis australis</i> Sparrman, 1788	South Island robin / kakaruai			В	В		
Phalacrocorax melanoleucos brevirostris Gould, 1837	little shag / kawaupaka	В	В	В	В	В	Р
<i>Podiceps cristatus australis</i> Gould, 1844	Australasian crested grebe / pūteketeke	В	Р	Р	В	Р	Р
Puffinus griseus (Gmelin, 1789)	sooty shearwater / tītī		SB	В		SB	Р
Sterna striata striata Gmelin, 1789	white-fronted tern / tara		В	В		В	Р
Stictocarbo punctatus (Sparrman, 1786)	spotted shag / kawau tikitiki		В	В		В	Р
REGIONALLY AT RISK							
REGIONALLY DECLINING							
<i>Bowdleria punctata punctata</i> Quoy & Gaimard, 1830	South Island fernbird / mātātā		В	В	В	SB	
<i>Mohoua novaeseelandiae</i> (Gmelin, 1789)	brown creeper / pipipi	В	В	В	В	В	
Zosterops lateralis lateralis Latham, 1802	silvereye / tauhou	В	В	В	В	В	

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Presence by Territorial Authority or Coastal Marine Area

Name and Authority	Common Name / Māori Name	Central Otago District Council	Clutha District Council	Dunedin City Council	Queenstown Lakes District Council	Waitaki District Council (Otago part only)	Coasta Marine Area
REGIONALLY RECOVERING							
<i>Larus novaehollandiae scopulinus</i> J. R. Forster, 1843	red-billed gull / tarāpunga		В	В		В	Р
REGIONALLY NON-RESIDENT NATI	VE						
REGIONAL MIGRANT							
Ardea modesta J.E. Gray, 1831	white heron / kōtuku	Р	Р	Р	Р	Р	Р
Catharacta antarctica lonnbergi Mathews, 1912	subantarctic skua / hākoakoa						Р
<i>Daption capense australe</i> Mathews, 1913	Snares Cape petrel / karetai hurukoko						Р
<i>Daption capense capense</i> (Linnaeus, 1758)	Antarctic cape petrel / karetai hurukoko						Р
Diomedea antipodensis antipodensis Robertson & Warham, 1992	Antipodean wandering albatross / toroa						Р
<i>Diomedea antipodensis gibsoni</i> Robertson & Warham 1992	Gibson's wandering albatross / toroa						Р
Diomedea epomophora Lesson, 1825	southern royal albatross / toroa						Р
Eudyptes pachyrhynchus G.R. Gray, 1845	Fiordland crested penguin / tawaki		SB	SB		Р	Р
Fregetta tropica (Gould, 1844)	black-bellied storm petrel / takahikare-rangi						Р
Fulmarus glacialoides A. Smith, 1826	Antarctic fulmar						Р
Garrodia nereis (Gould, 1841)	grey-backed storm petrel / reoreo						Р
Hydroprogne caspia (Pallas, 1770)	Caspian tern / taranui		Р	Р		Р	Р

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Name and Authority	Common Name / Māori Name	Central Otago District Council	Clutha District Council	Dunedin City Council	Queenstown Lakes District Council	Waitaki District Council (Otago part only)	Coastal Marine Area
Macronectes giganteus (Gmelin, 1789)	southern giant petrel / pāngurunguru						Р
Macronectes halli Mathews, 1912	northern giant petrel / pāngurunguru						Р
Morus serrator G.R. Gray, 1843	Australasian gannet / tākapu						Р
Oceanites oceanicus exasperatus Mathews, 1912	Wilson's storm petrel						Р
Pachyptila vittata Forster,G, 1777	broad-billed prion / pararā			Р		SB	Р
Pelagodroma marina maoriana Mathews, 1912	New Zealand white-faced storm petrel / takahikare					SB	Р
<i>Pelecanoides urinatrix chathamensis</i> Murphy and Harper, 1916	southern diving petrel / kuaka					SB	Р
<i>Phalacrocorax varius varius</i> Gmelin, 1789	pied shag / kāruhiruhi		Р	SB	Р	SB	Р
Procellaria aequinoctialis Linnaeus, 1758	white-chinned petrel / karetai kauae mā						Р
Procellaria cinerea Gmelin, 1789	grey petrel / kuia						Р
Procellaria westlandica Falla, 1946	Westland petrel / tāiko						Р
Pterodroma cookii (G.R. Gray, 1843)	northern Cook's petrel / tītī						Р
Pterodroma gouldi (Hutton, 1869)	grey-faced petrel / ōi						Р
Pterodroma inexpectata (J.R. Forster, 1844)	mottled petrel / kōrure						Р
Puffinus bulleri, Salvin 1888	Buller's shearwater / rako						Р
Puffinus gavia J.R. Forster, 1844	fluttering shearwater / pakahā						Р
Puffinus huttoni Mathews, 1912	Hutton's shearwater / Kaikōura tītī						Р
Puffinus tenuirostris Temminck, 1836	short-tailed shearwater						Р

Presence by Territorial Authority or Coastal Marine Area

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Name and Authority	Common Name / Māori Name	Central Otago	Clutha District	Dunedin City	Queenstown Lakes District	Waitaki District Council (Otago	Coastal Marine
	Name	District Council	Council	Council	Council	part only)	Area
Stercorarius parasiticus (Linnaeus, 1758)	Arctic skua						Р
<i>Thalassarche bulleri bulleri</i> Rothschild, 1888	southern Buller's mollymawk / toroa						Р
<i>Thalassarche cauta steadi</i> Falla, 1933	New Zealand white-capped mollymawk / toroa						Р
<i>Thalassarche impavida</i> Mathews, 1912	Campbell Island mollymawk / toroa						Р
Thalassarche melanophris (Temminck, 1828)	black-browed mollymawk / toroa						Р
Halassarche salvini Rothschild, 1878	Salvin's mollymawk / toroa						Р
REGIONALLY NOT THREATENED							
Anas gracilis Buller, 1869	grey teal / tētē-moroiti	В	SB	SB	В	SB	Р
Anas rhynchotis (Latham, 1802)	Australasian shoveler / kuruwhengi	Р	Р	Р	В	Р	Р
Anthornis melanura melanura Sparrman, 1786	bellbird / kōparapara	В	В	В	В	В	
Anthus novaeseelandiae novaeseelandiae Gmelin, 1789	New Zealand pipit / pīhoihoi	В	В	В	В	В	
<i>Aythya novaeseelandiae</i> (Gmelin, 1789)	New Zealand scaup / pāpango	В	В	В	В	В	
<i>Chrysococcyx lucidus lucidus</i> Gmelin, 1788	shining cuckoo / pīpīwharauroa	SB	В	В	В	В	
Circus approximans Peale, 1848	Australasian harrier / kāhu	В	В	В	В	В	Р
Cygnus atratus (Latham, 1790)	black swan / kakīānau	В	В	В	В	Р	Р
<i>Egretta novaehollandiae</i> (Latham, 1790)	white-faced heron / matuku moana	SB	В	В	В	В	Р

Continued next page

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Fresence by Territorial Authonity of Coastal Marine Area	Presence by Territorial Authority or Coastal I	Marine Area
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Name and Authority	Common Name / Māori Name	Central Otago District Council	Clutha District Council	Dunedin City Council	Queenstown Lakes District Council	Waitaki District Council (Otago part only)	Coastal Marine Area
<i>Gerygone igata</i> (Quoy & Gaimard, 1830)	grey warbler / riroriro	В	В	В	В	В	
<i>Eudyptula novaehollandiae</i> (Stephens, 1826)	ollandiae Australian little penguin / kororā			В		В	Р
<i>Hemiphaga novaeseelandiae</i> Gmelin, 1789	kererū / New Zealand pigeon	SB	В	В	В	В	
Himantopus himantopus leucocephalus Gould, 1837	pied stilt / poaka	В	В	В	В	В	Р
<i>Hirundo neoxena neoxena</i> Gould, 1842	welcome swallow / warou	В	В	В	В	В	Р
<i>Larus dominicanus dominicanus</i> Lichtenstein, 1823	southern black-backed gull / karoro	В	В	В	В	В	Р
Petroica macrocephala macrocephala Gmelin, 1789	South Island tomtit / ngirungiru	В	В	В	В	В	
Porphyrio melanotus melanotus Temminck, 1820	pukeko	В	В	В	В	В	Р
Prosthemadera novaeseelandiae novaeseelandiae (Gmelin, 1788)	tūī	SB	В	В	В	В	
Rhipidura fuliginosa fuliginosa (Sparrman, 1787)	South Island fantail / pīwakawaka	В	В	В	В	В	
Tadorna variegata (Gmelin, 1789)	paradise shelduck / pūtakitaki	В	В	В	В	В	Р
<i>Todiramphus sanctus vagans</i> (Lesson, 1828)	New Zealand kingfisher / kōtare	SB	SB	В	В	SB	Р
<i>Vanellus miles novaehollandiae</i> Stephens, 1819	spur-winged plover	В	В	В	В	В	Р
REGIONAL COLONISER							
Fulica atra australis Gould, 1845	Australian coot	В	В	В	В	В	
<i>Platalea regia</i> Gould, 1838	royal spoonbill / kōtuku ngutupapa		В	В	Р	В	Р
<i>Platalea regia</i> Gould, 1838			В	В	Р		B

Presence by Territorial Authority or Coastal Marine Area

Name and Authority	Common Name / Māori Name	Central Otago District Council	Clutha District Council	Dunedin City Council	Queenstown Lakes District Council	Waitaki District Council (Otago part only)	Coastal Marine Area
CONSERVATION TRANSLOCATION	*						
Apteryx australis "Haast"	Haast tokoeka			В			
Porphyrio hochstetteri (A.B. Meyer, 1883)	South Island takahe / takahē			В	В		
INTRODUCED AND NATURALISED							Į.
Alauda arvensis Linnaeus, 1758	Eurasian skylark / kairaka	В	В	В	В	В	
Alectoris chukar (J.E. Gray, 1830)	chukor	В			В		
Anas platyrhynchos Linnaeus, 1758	mallard duck / rakiraki	SB	SB	SB	SB	SB	Р
Anser anser Linnaeus, 1758	greylag goose / kuihi	В	В	В	В	В	
Athene noctua (Scopoli, 1769)	little owl / ruru nohinohi	В	В	В	В	В	
Branta canadensis Linnaeus, 1758	Canada goose / kuihi	В	В	В	В	В	Р
Cacatua galerita (Latham, 1790)	sulphur-crested cockatoo		SB	SP			
Callipepla californica Shaw, 1798	California quail / tikaokao	В	В	В	В	В	
Carduelis carduelis Linnaeus, 1758	European goldfinch / kourarini	В	В	В	В	В	
Carduelis chloris (Linnaeus, 1758)	European greenfinch	В	В	В	В	В	
Carduelis flammea (Linnaeus, 1758)	common redpoll	В	В	В	В	В	
Columba livia Gmelin, 1789	rock pigeon / kererū aropari	В	В	В	В	В	
Corvus frugilegus Linnaeus, 1758	rook	SP	SP	Р		SP	
Emberiza cirlus Linnaeus, 1766	cirl bunting	SB	Р	SP	Р	SB	
Emberiza citrinella Linnaeus, 1758	yellowhammer / hurukōwhai	В	В	В	В	В	
Fringilla coelebs Linnaeus, 1758	chaffinch / pahirini	В	В	В	В	В	
Gymnorhina tibicen (Latham, 1801)	Australian magpie / makipai	В	В	В	В	В	
Meleagris gallopavo Linnaeus, 1758	wild turkey / korukoru	В	В	SB	SB	В	
Passer domesticus (Linnaeus, 1758)	house sparrow / tiu	В	В	В	В	В	
Phasianus colchicus Linnaeus, 1758	common pheasant	В	В	В	В	В	
Platycercus eximius (Shaw, 1792)	eastern rosella / kākā uhi whero		SB	В		SB	

Continued next page

Presence by Territorial Authority or Coastal Marine Area

Name and Authority	Common Name / Māori Name	Central Otago District Council	Clutha District Council	Dunedin City Council	Queenstown Lakes District Council	Waitaki District Council (Otago part only)	Coastal Marine Area
Prunella modularis (Linnaeus, 1758)	dunnock	В	В	В	В	В	
Sturnus vulgaris Linnaeus, 1758	common starling / tāringi	В	В	В	В	В	
Turdus merula Linnaeus, 1758	Eurasian blackbird / manu pango	В	В	В	В	В	
Turdus philomelos Brehm, 1831	song thrush / manu-kai-hua- rakau	В	В	В	В	В	

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Table 3: Presence of Regionally Threatened, Regionally At Risk, Regionally Non-resident (Migrant and Coloniser only), Regionally Introduced and Naturalised, and Regionally Conservation Translocated bird taxa in freshwater management units (FMU) in the Otago Region. The Clutha Mata-au FMU has been further subdivided into five rohe (areas). *B* indicates a taxon has been observed breeding in a FMU or rohe over the last 20 years; *SB* indicates a taxon is suspected to breed in a FMU or rohe; *P* indicates a taxon was observed in a FMU or rohe; *SP* indicates a taxon is suspected in a FMU or rohe. The Māori name is from the National Conservation Status, except when from Checklist of the Birds of New Zealand as indicated by an asterisk (*)

Name	Common Name / Māori	Taieri FMU	North Otago	Dunedin & Coast FMU	Catlins FMU		Clutha Ma	ata-au FN	IU	
	Name		FMU			Manuherekia Rohe	Roxburgh Rohe	Upper Lakes Rohe	Dunstan Rohe	Lower Clutha Rohe
REGIONALLY THREATENED			L.							
REGIONALLY CRITICAL										
Anarhynchus frontalis Quoy & Gaimard, 1830	wrybill / ngutu pare			Р	Р			В		
Botaurus poiciloptilus (Wagler, 1827)	Australasian bittern / matuku- hūrepo	SB	Р	Р	SB	SB		SB	SB	SB
Cyanoramphus novaezelandiae novaezelandiae Sparrman, 1787	red-crowned parakeet / kākāriki	SB		SB	В					SP
Diomedea sanfordi Murphy, 1917	northern royal albatross / toroa			В						
Hymenolaimus malacorhynchos (Gmelin, 1789)	whio / kōwhiowhio							В		
Megadyptes antipodes (Hombron & Jacquinot, 1841)	yellow-eyed penguin / hoiho		В	В	В					
Nestor notabilis Gould, 1856	kea							В	В	
Porzana tabuensis tabuensis Gmelin, 1789	spotless crake / pūweto	SB		SP	SB				P	SB

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Presence by freshwater management unit or rohe	continued

Name	Common Name / Māori	Taieri FMU	North Otago	Dunedin & Coast	Catlins FMU		Clutha M			
	Name		FMU	FMU		Manuherekia Rohe	Roxburgh Rohe	Upper Lakes Rohe	Dunstan Rohe	Lower Clutha Rohe
Xenicus gilviventris rineyi Falla, 1953	southern rock wren / pīwauwau							В		
REGIONALLY ENDANGERED										
Chlidonias albostriatus (G.R. Gray, 1845)	black-fronted tern / tarapirohe	Р	В	Р	Р	SB	SB	В	В	Р
Eudynamys taitensis (Sparrman, 1787)	long-tailed cuckoo / koekoeā			Р	В			В	SB	SB
Gallirallus australis hectori (Hutton, 1873) *	buff weka / weka							В		
Nestor meridionalis meridionalis (Gmelin, 1788)	South Island kaka / kākā			В	Р		Р	В		
Phalacrocorax carbo novaehollandiae Stephens, 1826	black shag / kōau	В	SB	В	SB	Р	Р	SB	SB	SB
Porzana pusilla affinis (J.E. Gray, 1845)	marsh crake / kotoreke	В	Р	SB	SB			В	В	
REGIONALLY VULNERABLE										
Charadrius bicinctus bicinctus Jardine and Selby, 1827	banded dotterel / pohowera	В	В	Р	В	В	SB	В	В	Р
Cyanoramphus auriceps Kuhl, 1820	yellow-crowned parakeet / kākāriki	Р			В			В		SB
Falco novaeseelandiae novaeseelandiae (Gmelin 1788)	eastern falcon / kārearea	В	В	В	В	В	В	В	В	В

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Presence by freshwater management unit or rohe	continued

Name	Common Name / Māori	Taieri FMU	North Otago FMU	Dunedin & Coast FMU	Catlins FMU		Clutha Ma	ata-au FN	IU	
	Name					Manuherekia Rohe	Roxburgh Rohe	Upper Lakes Rohe	Dunstan Rohe	Lower Clutha Rohe
Haematopus finschi Martens, 1897	South Island pied oystercatcher / tōrea	В	В	В	В	В	В	В	В	В
Haematopus unicolor J.R. Forster, 1844	variable oystercatcher / tōrea pango	В	В	В	В					В
Larus bulleri Hutton, 1871	black-billed gull / tarāpuka	В	В	Р	Р	В	В	В	В	В
Leucocarbo chalconotus G.R. Gray, 1845	Otago shag / matapo	Р	В	В	В					
Limosa lapponica baueri Naumann, 1836	eastern bar- tailed godwit / kūaka	Р	Р	Р	Р					Р
Mohoua ochrocephala (Gmelin, 1789)	mohua / yellowhead				В			В		В
Ninox novaeseelandiae novaeseelandiae Gmelin, 1788	ruru	В	В	В	В		Р	В	В	В
Pachyptila turtur (Kuhl, 1820)	fairy prion / tītī wainui			В						
Petroica australis australis Sparrman, 1788	South Island robin / kakaruai			В				В		
Phalacrocorax melanoleucos brevirostris Gould, 1837	little shag / kawaupaka	В	В	В	В	В	В	В	В	В

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Presence by freshwater management unit or rohe continued

Name	Common Name / Māori	Taieri FMU	North Otago	Dunedin & Coast	Catlins FMU	Clutha Mata-au FMU						
	Name		FMU	FMU		Manuherekia Rohe	Roxburgh Rohe	Upper Lakes Rohe	Dunstan Rohe	Lower Clutha Rohe		
Podiceps cristatus australis Gould, 1844	Australasian crested grebe / pūteketeke	Р	Р	Р		P	В	В	В	Р		
Puffinus griseus (Gmelin, 1789)	sooty shearwater / tītī		SB	В	SB							
Sterna striata striata Gmelin, 1789	white-fronted tern / tara	SB	В	В	В					Р		
Stictocarbo punctatus (Sparrman, 1786)	spotted shag / kawau tikitiki	Р	В	В	В					Р		
AT RISK								I.	l			
DECLINING												
<i>Bowdleria punctata punctata</i> Quoy & Gaimard, 1830	South Island fernbird / mātātā	В	SB	В	В			В	Р	В		
Mohoua novaeseelandiae (Gmelin, 1789)	brown creeper / pipipi	В	В	В	В		SB	В	В	В		
Zosterops lateralis lateralis Latham, 1802	silvereye / tauhou	В	В	В	В	В	В	В	В	В		
RECOVERING												
<i>Larus novaehollandiae scopulinus J.</i> R. Forster, 1843	red-billed gull / tarāpunga	Р	В	В	Р					Р		
REGIONALLY NON-RESIDENT NATIVE REGIONAL MIGRANT*												
Ardea modesta J.E. Gray, 1831	white heron / kōtuku	Р	Р	Р	Р	Р		Р	Р	Р		

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Presence by freshwater management unit or rohe continu	ied

Name	Common Name / Māori	Taieri FMU	North Otago	Dunedin & Coast	Catlins FMU		Clutha Mata-au FMU				
	Name		FMU	FMU		Manuherekia Rohe	Roxburgh Rohe	Upper Lakes Rohe	Dunstan	Lower Clutha Rohe	
Eudyptes pachyrhynchus G.R. Gray, 1845	Fiordland crested penguin / tawaki		Р	SB	SB						
Hydroprogne caspia (Pallas, 1770)	Caspian tern / taranui	Р	Р	Р	Р					Р	
Pachyptila vittata65 Forster,G, 1777	broad-billed prion / pararā		SB	Р							
Pelagodroma marina maoriana Mathews, 1912	New Zealand white-faced storm petrel / takahikare		SB								
Pelecanoides urinatrix chathamensis Murphy and Harper, 1916	southern diving petrel / kuaka		SB								
Phalacrocorax varius varius Gmelin, 1789	pied shag / kāruhiruhi	Р	SB	SB	SB	Р		Р		Р	
REGIONAL COLONISER											
Fulica atra australis Gould, 1845	Australian coot	В	В	В		В	В	В	В	В	
Platalea regia Gould, 1838	royal spoonbill / kotuku ngutupapa	Р	В	В	В			Р		Р	
CONSERVATION TRANSLOCATION	k	·		·	·						
Apteryx australis "Haast"	Haast tokoeka			В							
Porphyrio hochstetteri (A.B. Meyer, 1883)	South Island takahe / takahē			В				В			

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Presence by freshwater management unit or rohe continued

Name	Common Name / Māori	Taieri FMU	North Otago	Dunedin & Coast	Catlins FMU	Clutha Mata-au FMU					
	Name		FMU	FMU		Manuherekia Rohe	Roxburgh Rohe	Upper Lakes Rohe	Dunstan Rohe B SB B B B B	Lower Clutha Rohe	
REGIONALLY NOT THREATENED							L				
Anas gracilis Buller, 1869	grey teal / tētē- moroiti	В	SB	В	В	SB	Р	В	В	В	
Anas rhynchotis (Latham, 1802)	Australasian shoveler / kuruwhengi	Р	Р	Р	Р	Р	Р	В	SB	Р	
Anthornis melanura melanura Sparrman, 1786	bellbird / kōparapara	В	В	В	В	В	В	В	В	В	
Anthus novaeseelandiae novaeseelandiae Gmelin, 1789	New Zealand pipit / pīhoihoi	В	В	В	В	В	В	В	В	В	
Aythya novaeseelandiae (Gmelin, 1789)	New Zealand scaup / pāpango	В	В	В	SB	SB	Р	В	В	В	
<i>Chrysococcyx lucidus lucidus</i> Gmelin, 1788	shining cuckoo / pīpīwharauroa	SB	В	В	В	SB	SB	В	В	В	
Circus approximans Peale, 1848	Australasian harrier / kāhu	В	В	В	В	В	В	В	В	В	
Cygnus atratus (Latham, 1790)	black swan / kakīānau	В	В	В	В	В	В	В	В	В	
Egretta novaehollandiae (Latham, 1790)	white-faced heron / matuku moana	В	В	В	В	SB	SB	SB	В	В	
<i>Eudyptula novaehollandiae</i> (Stephens, 1826)	Australian little penguin / kororā		В	В	В						
Gerygone igata (Quoy & Gaimard, 1830)	grey warbler / riroriro	В	В	В	В	В	В	В	В	В	

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Presence by freshwater management unit or rohe continued	

Name	Common Name / Māori	Taieri FMU	North Otago	Dunedin & Coast	Catlins FMU	Clutha Mata-au FMU					
	Name		FMU	FMU		Manuherekia Rohe	Roxburgh Rohe	Upper Lakes Rohe	Dunstan Rohe	Lower Clutha Rohe	
<i>Hemiphaga novaeseelandiae</i> Gmelin, 1789	kererū / New Zealand pigeon	SB	В	В	В	Р	Р	В	Р	В	
<i>Himantopus himantopus leucocephalus</i> Gould, 1837	pied stilt / poaka	В	В	В	В	В	В	В	В	В	
Hirundo neoxena neoxena Gould, 1842	welcome swallow / warou	В	В	В	В	В	В	В	В	В	
Larus dominicanus dominicanus Lichtenstein, 1823	southern black- backed gull / karoro	В	В	В	В	В	В	В	В	В	
Petroica macrocephala macrocephala Gmelin, 1789	South Island tomtit / ngirungiru	В	В	В	В	SB	В	В	В	В	
Porphyrio melanotus melanotus Temminck, 1820	pukeko	В	В	В	В	SB	SB	В	В	В	
Rhipidura fuliginosa fuliginosa (Sparrman, 1787)	South Island fantail / pīwakawaka	В	В	В	В	В	В	В	В	В	
Prosthemadera novaeseelandiae novaeseelandiae (Gmelin, 1788)	tūī	В	В	В	В	Р	Р	В	В	В	
<i>Tadorna variegata</i> (Gmelin, 1789)	paradise shelduck / pūtakitaki	В	В	В	В	В	В	В	В	В	
Todiramphus sanctus vagans (Lesson, 1828)	New Zealand kingfisher / kōtare	В	В	В	В	Р	Р	В	В	В	

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Presence by freshwater	r management unit or rohe continued

Name	Common Name / Māori	Taieri FMU	North Otago	Dunedin & Coast	Catlins FMU		Clutha M	ata-au FN	IU	
	Name		FMU	FMU		Manuherekia Rohe	Roxburgh Rohe	Upper Lakes Rohe	Dunstan Rohe	Lower Clutha Rohe
Vanellus miles novaehollandiae	spur-winged	В	В	В	В	В	В	В	В	В
Stephens, 1819	plover									
REGIONALLY INTRODUCED AND NAT	TURALISED									
Alauda arvensis Linnaeus, 1758	Eurasian skylark / kairaka	В	В	В	В	В	В	В	В	В
Alectoris chukar (J.E. Gray, 1830)	chukor	SB	SB			В	SP	В	В	
Anas platyrhynchos Linnaeus, 1758	mallard duck / rakiraki	SB	SB	SB	SB	SB	SB	SB	SB	SB
Anser anser Linnaeus, 1758	greylag goose / kuihi	В	В	В	В	В	В	В	В	В
Athene noctua (Scopoli, 1769)	little owl / ruru nohinohi	В	В	В	В	В	В	В	В	В
Branta canadensis Linnaeus, 1758	Canada goose / kuihi	В	В	В	В	В	В	В	В	Р
<i>Cacatua galerita</i> (Latham, 1790)	sulphur-crested cockatoo	SP			В					В
Callipepla californica Shaw, 1798	California quail / tikaokao	В	В	В	В	В	В	В	В	В
Carduelis carduelis Linnaeus, 1758	European goldfinch / kõurarini	В	В	В	В	В	В	В	В	В
Chrysolophus pictus (Linnaeus, 1758)	golden pheasant		Р							
Carduelis chloris (Linnaeus, 1758)	European greenfinch	В	В	В	В	В	В	В	В	В
Carduelis flammea (Linnaeus, 1758)	common redpoll	В	В	В	В	В	В	В	В	В

Continued next page

Presence by freshwater management unit or rohe continued	

Name	Common Name / Māori	Taieri FMU	North Otago	Dunedin & Coast	Catlins FMU	Clutha Mata-au FMU					
	Name		FMU	FMU		Manuherekia Rohe	Roxburgh Rohe	Upper Lakes Rohe	Dunstan Rohe	Lower Clutha Rohe	
<i>Columba livia</i> Gmelin, 1789	rock pigeon / kererū aropari	В	В	В	В	В	В	В	В	В	
Corvus frugilegus Linnaeus, 1758	rook	Р	SP							SP	
Emberiza cirlus Linnaeus, 1766	cirl bunting	SB	SB	SP	SP	SB	Р	Р	SB	Р	
Emberiza citrinella Linnaeus, 1758	yellowhammer / hurukōwhai	В	В	В	В	В	В	В	В	В	
Fringilla coelebs Linnaeus, 1758	chaffinch / pahirini	В	В	В	В	В	В	В	В	В	
Gymnorhina tibicen (Latham, 1801)	Australian magpie / makipai	В	В	В	В	В	В	В	В	В	
Meleagris gallopavo Linnaeus, 1758	wild turkey / korukoru	В	SB	SB	SB	В	В	SB	В	SB	
Passer domesticus (Linnaeus, 1758)	house sparrow / tiu	В	В	В	В	В	В	В	В	В	
Phasianus colchicus Linnaeus, 1758	common pheasant	SB	В	В	SB	SP	SB	В	В	SB	
Platycercus eximius (Shaw, 1792)	eastern rosella / kākā uhi whero	В	В	В	SB					SB	
Prunella modularis (Linnaeus, 1758)	dunnock	В	В	В	В	В	В	В	В	В	
Sturnus vulgaris Linnaeus, 1758	common starling / tāringi	В	В	В	В	В	В	В	В	В	
<i>Turdus merula</i> Linnaeus, 1758	Eurasian blackbird / manu pango	В	В	В	В	В	В	В	В	В	
Turdus philomelos Brehm, 1831	song thrush / manu-kai-hua- rakau	В	В	В	В	В	В	В	В	В	

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Discussion

Regional threat assessments have been completed by regional or unitary councils in Aotearoa New Zealand, including by the Otago Regional Council. This report is the first regional conservation status for birds in the Otago Region. A total of 283 bird taxa were identified as in, or near, the Otago since human arrival in Aotearoa New Zealand (Figure 1). Of these taxa, 32 are Regionally Threatened, four are Regionally At Risk, 135 are Regionally Non-resident, 22 are Regionally Not Threatened; 10 are Regionally Data Deficient; and 25 taxa were Introduced and Naturalised. Additionally, 43 taxa are identified as Regionally Extirpated, 10 taxa were Introduced, Not Established, and two are Not Assessed. Conservation Translocations to reintroduce or introduce three bird species to the region have happened for conservation purposes.

For 32 Regionally Threatened taxa in the Otago region, nine are Regionally Critical, six are Regionally Endangered, and 17 are Regionally Vulnerable. Of the four Regionally At Risk taxa, three are Regionally Declining and one is Regionally Recovering. The number of Regionally Not Threatened taxa is 22. For Regionally Non-resident Native species, 36 are Regional Migrants, 97 are Regional Vagrants, and two are identified as a Regional Coloniser. In Otago 43 were identified as Regionally Extirpated, with 30 taxa globally extinct and 13 taxa extant but extinct from the region.

Regionally extirpated bird taxa

The number of extirpated bird taxa in Otago is at least 43, including 13 regional extirpations and 30 national extinctions (Table 1.1). Of the 13 regional extirpations, two are considered nationally as Data Deficient and 10 are Threatened or At Risk. Of the 30 global extinctions, seven were for species of moa (order Dinornithiformes); six were ducks, swan, goose, and merganser (order Anseriformes); six were for wrens, a raven, and a piopio (order Passeriformes; three were adzebill and rallidae (order Gruiformes); two were for an eagle and a harrier (order Accipitriformes); one for a penguin (order Sphenisciformes); one for an owlet-nightjar (order Apodiformes); one for a bittern (order Pelecaniformes); one for an owl (order Strigiformes); one for a snipe (order Charadriiformes); and one for a quail (order Galliformes). While most of the extinct taxon have fossil records from Otago, three were assumed to have occurred in the region (crested moa, Pachyornis australis, long-billed wren, long-billed wren, and the South Island stout-legged wren, Pachyplichas yaldwyni). This is based on a disjunct distribution of deposits on either side of Otago and presumed suitable habitat in the region. Although the New Zealand swan, Cygnus sumnerensis, was not assessed in the national assessment by Robertson et al. (2021), it is a confirmed extinct taxon (Rawlence et al. 2017, 2018) in the Checklist of the Birds of New Zealand (Checklist Committee, 2022).

Regionally Data Deficient bird taxa

The Otago region has 10 Regionally Data Deficient bird taxa (Table 1.2), who were assigned to this category for two main reasons. First, *uncertain taxonomy* for four taxa: 1) the grey duck / pārera, *Anas superciliosa*, has extensively hybridised with introduced mallards to the extent that few grey ducks / pārera may exist in Aotearoa New Zealand, and the Otago region is not considered a stronghold for potentially pure grey ducks; 2) only two subspecies of blue penguins / kororā are recognised by the Checklist of the Birds of New Zealand (Checklist Committee, 2022) but it's unclear whether the southern blue penguin / kororā, *Eudyptula minor minor*, as in the NZTCS taxonomy are in the region (Grosser et al. (2015, 2017); 3) similarly for white-flippered blue penguin / kororā, *Eudyptula minor albosignata*, there are only two subspecies of blue penguins recognised by the Checklist of the Birds of New Zealand (Checklist Committee, 2022), but varying degrees of white-flipperedness are observed at Ōamaru (Agnew pers. comm. July 2024); and 4) the discovery of a carcass from a recently dead bird at Boulder beach, Otago Peninsula / Muaūpoko, that resembled a Foveaux shag / mapo, *Leucocarbo stewarti*.

Second, uncertainty over distributional range limits for six taxa; one was for terrestrial bird while the remaining five were for seabirds. For the western weka / weka, Gallirallus australis australis, there was uncertainty whether populations are found in the region despite being present in adjacent areas such as Eglinton Valley; for northern Buller's mollymawk / toroa, Thalassarche bulleri platei, there was uncertainty whether they are found in the region despite being recorded in adjacent seas; for Chatham Island taiko / tāiko, Pterodroma magentae, there was uncertainty they are found in the region despite recent tracking studies showing that they forage near the Otago canyons; for the fulmar prion, Pachyptila crassirostris, there was uncertainty they are found in the region despite reports of them of the coast of Te Waipounamu / South Island with this uncertainty due to difficulty of field identification; for the black petrel / tāiko, Procellaria parkinsoni, there was uncertainty they are found in the region because they are hard to distinguish from the similar-looking Westland petrel / tāiko, Procellaria westlandica, and a recent sighting off Taiaroa Head / Pukekura was regarded as probable' by the Birds New Zealand Records Appraisal Committee; for Tasmanian albatross / toroa, Thalassarche cauta cauta, there was uncertainty they are found in the region because they are hard to distinguish from the New Zealand white-capped / toroa, Thalassarche cauta steadi.

Regionally Threatened bird taxa

In the Otago region there were 32 Regionally Threatened bird taxa (Tables 1.3.1, 1.3.2, 1.3.3). These include nine bird taxa that were Regionally Critical, six Regionally Endangered, and 17 Regionally Vulnerable. Of the nine Regionally Critical bird taxa, seven were in the Threatened category in the national threat assessment, where they had the statuses Nationally Critical for one species, Nationally Endangered for three species, Nationally

Vulnerable for two species, and Nationally Increasing for one species (1.3.1). The remaining two Regionally Critical bird taxa were in the At Risk category nationally, each with one species in the statuses Declining and Relict. Of the Regionally Endangered taxa, all were closer to extirpation regionally than they are nationally to extinction: one was considered nationally as Threatened and three At Risk. For Regionally Vulnerable bird taxa, there were 19 identified (Table 1.3.2). Of these bird taxa, four were in the Threatened category in the national assessment (Table 1.3.3). Four taxa were in the equivalent regional- and national-status, with one taxon differing. The taxon which differed between the natural assessment and regional assessment is the regionally endemic Otago shag / matapo, because more up-to-date information was available compared to when the national assessment was conducted (Parker & Rexer-Huber 2022); instead of an increasing population of > 10 % the taxon was assessed as stable \pm 10 %.

Regionally At Risk bird taxa

In the Otago region four bird taxa were assigned a Regionally At Risk category (Table 1.4). One taxon was Regionally Recovering while three taxa were Regionally Declining. In contrast to declines in the red-billed gull / tarāpunga, *Larus novaehollandiae scopulinus*, populations nationally, since the early 1990s the regional population has increased with mammalian predator control on the Otago Peninsula / Muaūpoko. The Regionally Declining species have a population decline of 10–30 % in Otago for South Island fernbird / mātātā, *Bowdleria punctata punctata*, brown creeper / pipipi, *Mohoua novaeseelandiae*, and silvereye / tauhou, *Zosterops lateralis lateralis*. Although the brown creeper / pipipi over most of its Otago range is likely experiencing a decline in numbers, the taxon has a secure population in Orokonui Ecosanctuary – Te Korowai o Mihiwaka (hereafter, Orokonui Ecosanctuary). In other words, this taxon meets the Partial Decline qualifier as its declining over most of its range, but with a secure population in the sanctuary. The NZ Garden Bird Survey (MacLeod et al. 2022) showed for silvereyes / tauhou in Otago from 2013 to 2023 a shallow decline, although this decline was moderate from 2018 to 2023.

Regionally Non-resident Native bird taxa

The Otago region had 135 Regionally Non-resident bird taxa (Tables 1.5.1, 1.5.2, 1.5.3). Of these bird taxa, 36 are Regional Migrants, 97 are Regional Vagrants, and two are Regional Colonisers. The number of Regional Migrant bird taxa considered nationally to be Threatened was eight (Nationally Critical: 4; Nationally Vulnerable: 4), nationally At Risk was 16 (Declining: 4; Recovering: 2; Relict: 8; Naturally Uncommon: 3), and nationally Not Threatened was four (Table 1.5.1). For the remainder of the Regional Migrants, they are Non-resident Natives in the national assessment; one taxon had the status Coloniser and the remaining six were Migrants. The Regional Migrants were all seabirds except for the white heron / kōtuku.

Of the Regional Vagrants, seven are considered nationally as Threatened (Nationally Critical: 2; Nationally Endangered: 1; Nationally Vulnerable: 3; Nationally Increasing: 1), 10 are At Risk (Declining: 1; Naturally Uncommon: 6; Relict: 2), one was Not Threatened, and one was Introduced and Naturalised (Table 1.5.2). The remainder of the Regional Vagrants are Non-resident Natives in the national assessment (Coloniser: 4; Migrant: 18; Vagrants: 56) and an Introduced and Naturalised (1; sightings of single birds in Otago are regarded as vagrants).

Two bird taxa were assessed as Regional Colonisers: the royal spoonbill / kōtuku ngutupapa, *Platalea regia*, and Australian coot, *Fulica atra australis* (Table 1.5.3). Royal spoonbill / kōtuku ngutupapa were first reported in Aotearoa New Zealand at Castlepoint / Rangiwhakaoma, Wairarapa, in 1861 (Buller 1869), with breeding confirmed at Waitangiroto in 1949 (Oliver 1955). Breeding has subsequently been reported from other part of the country, including Otago; for example, at Maukiekie Island, Moeraki, 1983–84 (P. Schweigman in Marchant & Higgins 1990); Green Island, Ōtepoti Dunedin, 1988 (P. Schweigman in Marchant & Higgins 1990); Nugget Point / Tokatā, 1995; Taieri Island / Moturata, 1997; Heywood Point, Otago, 2003 (Schweigman 2006); Taiaroa Head / Pukekura, 2004; and the Catlins, 2004 (Schweigman 2006). The Australian coot self-introduced in the 20th century, and was first recorded breeding on Lake Hayes / Waiwhakaata, Otago, in 1958. Given the number of royal spoonbill / kōtuku ngutupapa and Australian coot in Otago still trigger 'Threatened' categories because of their population sizes but arrived in the region without help from humans and have successfully reproduced in the wild since 1950, they were assigned the Regional Coloniser status.

Regional Non-Threatened bird taxa

The number of Regionally Not Threatened bird taxa in Otago was 22 (Table 1.6). Of the Regionally Not Threatened taxa only the New Zealand pipit / pīhoihoi, *Anthus novaeseelandiae novaeseelandiae*, had a threat status with a reduced risk of extinction regionally compared to nationally, i.e., Regionally Not Threatened cf. to At Risk Declining. This is because in Otago there is no evidence of decline for New Zealand pipit / pīhoihoi populations, with the species still well-distributed in suitable habitat types in the region that are not as impacted as elsewhere in the country.

Regional Conservation Translocations of bird taxa

For bird taxa in Otago, conservation translocations – the intentional movement and release of organisms to restore populations – have been used to establish populations (IUCN/SCC 2013; Table 1.7). Types of conservation translocations already used have included reintroduction, the re-establishment of focal taxon within their indigenous range, including for taxa which have gone locally extinct in parts of the region, such as the South Island kākā and South Island robin / kakaruai released at Orokonui Ecosanctuary in 2008 and 2010, respectively. South Island kākā have established a breeding population with fledglings seen

at feeders inside the reserve each autumn, with some individuals observed dispersing long distances from the sanctuary; there are concerns that birds spending time outside the fence also face threats such as introduced predators and inappropriate feeding. Eggs have also failed to hatch for unknown reasons (Otago Natural History Trust 2019). Since their reintroduction, South Island robins / kakaruai have established throughout the sanctuary. The population was estimated to number 80–90 pairs in 2018 (L. Easton pers. comm. in Otago Natural History Trust 2019). South Island robins / kakaruai are now seen outside the reserve, e.g., an individual was seen at Ross Creek in Ōtepoti Dunedin having possibly dispersed from the sanctuary, and at least one population has established in the vicinity of the reserve (Otago Natural History Trust 2019).

For reintroductions where taxon went extinct in the region, this has also occurred: for example, buff weka / weka translocations started in the 2000s and South Island takahē more recently. Buff weka / weka were formerly widespread in eastern low-rainfall areas from Marlborough / Te Tauihu-o-te-Waka to Southland / Murihiku in the Te Waipounamu / South Island. The taxon apparently died out on the mainland but remains abundant on Chatham Islands / Rēkohu / Wharekauri and Pitt Island / Rangihaute / Rangiāuria where they were introduced in 1905. Introduced to islands in Lakes Wānaka and Wakatipu / Whakatipu Waimāori 2005–08 (Miskelly & Powlesland 2013). This includes to Harwich Island (Mou Waho), Lake Wānaka (2005); Pigeon Island (Wāwāhi Waka), Lake Wakatipu / Whakatipu Waimāori (2005–06, 2008); Pig Island (Matau), Lake Wakatipu / Whakatipu Waimāori (2006–06). Failed translocations in Otago include to Stevensons Peninsula, Lake Wānaka (2009) and possibly Motatapu Station, Lake Wānaka (2011–12) (Watts et al. 2017).

South Island takahē were once widespread throughout Te Waipounamu / South Island but following the arrival of humans, the associated introduction of other mammalian predators, and habitat loss, resulted by the 1940s in only remnant population in the mountains of Te Rua-o-Te-Moko / Fiordland. The modern conservation programme has set up additional populations, and advocacy sites. In August 2023, 18 takahē (nine pairs) were released into the Greenstone Valley, near Glenorchy at the head of Lake Wakaitpu – Whakatipu Waimāori. A further six juveniles were released in November 2023, with further reinforcement occurring. Two pairs of South Island takahē are currently at Orokonui Ecosanctuary (E. Smith, pers. comm., 2023, Orokonui Ecosanctuary, Conservation Manager). While takahē are free roaming at Orokonui Ecosanctuary, with one pair in the upper sanctuary separated by a low fence from the other pair in the lower sanctuary due to their being defensive about territories, a self-sustaining population is not possible. The sanctuary is an important advocacy site for takahē while also serving as a crèche, with patches of takahē habitat for at least two pairs of birds to live (Hunter-Ayad et al., 2021; Otago Natural History Trust, 2019).

Another type of conservation translocation is assisted migration, or managed relocation, the movement of the focal taxa outside its indigenous range to avoid extinctions (Seddon et al.

2014). In Otago Haast tokoeka / tokoeka were released at Orokonui Ecosanctuary in 2010 (Otago Natural History Trust 2019). Since being translocated to Orokonui Ecosanctuary the threat status of Haast tokoeka / tokoeka has improved in the national assessment from Nationally Critical to Nationally Vulnerable due to the extensive trapping of predators and use of aerial 1080 poison operations over the core 6000-ha area of South Westland occupied by the taxon. Additionally, the discovery of a small satellite population of *ca.* 12 pairs 15 km west of the previously known range, and ex situ management through Operation Nest Egg (ONE) and the establishment of small populations on Coal / Te Puka-Hereka, Pomona, and Rarotoka islands and at Orokonui Ecosanctuary, resulted in the population growing to *ca.* 450 mature individuals by 2018 (Germano et al. 2018).

Future conservation translocations of candidate taxa discussed in restoration plans for the mainland sanctuary at Orokonui Ecosanctuary include one of the three species of kakariki (yellow-crowned, red-crowned, orange-fronted), South Island saddleback / tieke, Snares Island snipe / tutukiwi, mohua / yellowhead, mottled petrel / kōrure, and sooty shearwater / tītī (Otago Natural History Trust 2019). South Island saddleback / tieke were reintroduced in 2009 (Masuda et al. 2010; Masuda & Jamieson 2012) and reinforced in 2013 (Otago Natural History Trust 2019). An unknown number of these birds migrated out of the reserve, but a small breeding population had established by 2015, suggesting suitable habitat exists to support this taxon. In that year, however, South Island saddleback / tieke were extirpated in the sanctuary, most likely because of one or more incursions by stoats (E Smith pers. comm. in Otago Natural History Trust 2019). Subsequent consultation with Kāti Huirapa ki Puketeraki, i.e., mana whenua at Orokonui Ecosanctuary, has indicated that they would support further translocations of this species into the reserve, and surplus birds are available from source islands (E Smith pers. comm. 2024, Orokonui Ecosanctuary).

Regionally Introduced and Naturalised bird taxa

In Otago, 25 bird taxa were identified as Regionally Introduced and Naturalised (Table 1.8). These are taxa that have become naturalised in the wild after being deliberately or accidentally introduced in Aotearoa New Zealand by human agency. All of these taxa in Otago have populations secure overseas. While most of these bird taxa have large populations in Otago, some are considerably smaller in size, although often there is low confidence on the size of the populations.

Regionally Introduced, not Established bird taxa

The Regionally Introduced, not Established bird taxa category is analogous to that found in New Zealand Birds online website but for Otago only (Table 1.9). This category includes bird taxa sighted where: 1) a release is documented, but with non-sustaining population not yet establishing in the wild or where a deliberate introduction is documented; and 2) published records indicate the species bred (or probably bred), but it is no longer extant. Of the 10 bird

taxa identified, seven are listed in the national assessment: six Introduced and Naturalised taxa, one Not Assessed, and three are not included. The six taxa in the national assessment identified as Introduced and Naturalised were suspected to most likely be escapees from captivity or released animals. The Not Assessed taxon was the feral chicken. Although assessed as Introduced and Naturalised in earlier versions of the national assessment, it was removed from the 2021 national assessment (Robertson et al. 2021). While known to breed in the wild in Aotearoa New Zealand, no viable wild populations have established, and most enclaves are supplemented by ongoing releases and/or supplementary feeding (Heather & Robertson 2015). The three taxa (cockatiel, golden pheasant, muscovy duck) not included in the national assessment but reported here are postulated to live in semi-wild states bolstered by birds that escape from captivity or are released. The locations where Regionally Introduced, not Established bird taxa have been documented by Territorial Authority, Coastal Marine Area, and Freshwater Management Unit or rohe are noted in Appendices 9 and 10.

Regionally Not Assessed bird taxa

In Otago two bird taxa were not assessed by the national assessment (Robertson et al. 2021), including crimson rosella, *Platycercus elegans,* and the Magellanic penguin, *Spheniscus magellanicus*. While the crimson rosella was assessed as Introduced and Naturalised in earlier versions of the national assessment, a breeding population of this species in Ōtepoti Dunedin died out in the 1950s (Heather & Robertson 2015). The national panel assessed that the species is no longer naturalised in Aotearoa New Zealand and so removed it from the 2021 list (Robertson et al. 2021). The magellanic penguin was excluded from the latest national assessment, because its occurrence in Aotearoa New Zealand is regarded as a failed introduction rather than as a vagrant (Gill et al. 2010).

Select Regional Qualifiers discussion

Qualifiers can be an integral part of threat assessments by helping to define a taxon's assessment, status, and management. Below are explanations of why some regional qualifiers were used for bird taxa in Otago.

Regional Endemics and National Strongholds

The Otago region had eight species assigned the qualifier National Stronghold (Appendix 7). These species have > 20% of the national population in Otago. The only regional endemic, i.e., known to exclusively breed in the region, is the Otago shag / matapo. Of the taxa that have National Strongholds in Otago, seven were Regionally Threatened (Regionally Critical = 1; Regionally Vulnerable = 6), and one was Regionally At Risk (Regionally Recovering).

Type Locality

In Otago, the number of taxa was with type localities was 13 (Appendix 8). The type locality of a nominal taxon refers to the geographical (and, where relevant, stratigraphical) place of

capture, collection, or observation on the name-bearing type or specimen. There were four extant taxa with type localities in Otago: Australasian crested grebe / pūteketeke, fairy prion / tītī wainui, Fiordland crested penguin / tawaki, and Otago shag / matapo. Nine globally extinct species have their type locality in the region.

Increasing

While most resident indigenous bird taxa were declining (< 10%; 20 taxa) or stable (\pm 10%; 34 taxa) in total population in Otago, four taxa had the qualifier Increasing, i.e., there is an ongoing or forecast increase of > 10% in the total population, taken over the next 10 years or three generations, whichever is longer: Haast tokoeka, Australian coot, northern royal albatross / toroa, and Australasian crested grebe / pūteketeke . The red-billed gull / tarāpunga also has > 10% ongoing or forecast increase in total population, but this qualifier is redundant for taxa ranked as 'Recovering'.

Haast tokoeka / tokoeka were released at Orokonui Ecosanctuary in 2010. The number of individuals in the lower sanctuary has increased to approximately 35 birds (Smith, pers comm. 2024). However, the carrying capacity for Haast tokoeka / tokoeka at Orokonui Ecosanctuary is limited due to the size of sanctuary, so growth is unlikely to continue for much longer. For Australian coot, a subspecies of the Eurasian coot that self-introduced into Aotearoa New Zealand from Australia in the 20th century, was first recorded breeding in Aotearoa New Zealand on Lake Hayes / Waiwhakaata, Otago in 1958. While the first northern royal albatross / toroa chick fledged at Taiaroa Head / Pukekura in 1938, the number of mature individuals was 242 as of October 2023. Australasian crested grebe / pūteketeke are currently increasing in Aotearoa New Zealand after reaching a low of about 200 birds in the 1980s. In Otago counts of adults rose from a total of 96 in the 2004 census to 173 in 2021, and 384 adults were counted in 2024.

Climate Impact

Of the resident native bird taxa 25 were assigned the Climate Impact qualifier. This qualifier can be applied when the taxon is, or is predicted, to be adversely affected by long-term climate trends and/or extreme climatic events. All the birds in Otago who were assigned this qualifier were in the Regionally Threatened or Regionally At Risk categories, except for the New Zealand pipit / pihoihoi and Australian little penguin / kororā. Using the AVONET dataset for all birds that includes morphological, geographical and ecological data (Tobias et al. 2022), the main habitat for those birds with the Climate Impact qualifier was coastal or marine for 12 taxa, wetland or riverine for seven taxa, and forest, grassland or shrubland for six taxa. Most bird taxa had a trophic niche mainly as aquatic predators (n = 16), with the remainder being a mix of omnivores (n = 5), insectivores (n = 3), and granivores (n = 1). The regional conservation status was Regionally Critical for seven bird taxa, Regionally Endangered for two bird taxa, Regionally Vulnerable for 12 bird taxa, Regionally Recovery for one bird taxon,

Regional Conservation Translocation for one bird taxon, and Regionally Not Threatened for two bird taxa.

A major reason for the those in the aquatic domains to have the Climate Impact qualifier was due to direct or indirect impacts because of coastal squeeze, the loss of habitats urban development compounded by sea-level rise and an increased intensity and frequency of extreme weather events (Keegan et al. 2022). For those bird taxa in the terrestrial domain more complicated indirect processes include the clear evidence for the spread of pest animal species increasing into habitats of vulnerable bird taxa, causing thermal squeeze (Walker et al. 2019).

Conservation Dependent

A Conservation Dependent taxon are those likely to move to a worse conservation status if current management ceases. The term 'management' can include indirect actions that benefit taxa, such as elimination of mammalian predators from ecosanctuaries. Of the 17 bird taxa identified with the Conservation Dependent qualifier in Otago they were either Regionally Threatened or had been a Conservation Translocation to the region, except for the Australian little penguin / kororā. Six taxa with the status Regionally Critical had the Conservation Dependent qualifier. Most of these were because they had a population size less than 250 mature individuals, except for the southern rock wren / pīwauwau and yellow-eyed penguin / hoiho with a population of 250–1000 mature individuals but population trends decreasing by 50–70 % and trend decreasing by 70 %, respectively.

One Location

Two taxa assigned the qualifier One Location for Otago: Haast tokoeka / tokoeka and northern royal albatross / toroa. Haast tokoeka / tokoeka are only found at Orokonui Ecosanctuary, where they were released in 2010. Although the breeding range for northern royal albatross / toroa is primarily the Chatham Islands / Rēkohu / Wharekauri (Forty-Fours Motchuhar / Motuhara, Big and Little Sister Islands / Rakitchu / Rangitatahi), there is a colony at Taiaroa Head / Pukekura on the Otago Peninsula / Muaūpoko.

Range Restricted

The number of bird taxa with the Range Restricted qualifier was six. Although five of the six taxa were Range Restricted in the national assessment, the regional panel also considered the endemic Otago shag / matapo. This is because the Otago shag / matapo typically roost on headlands, small islands, and now man-made structures, totalling less than 100 km². Although the qualifier specifies natural substrates, the man-made structures are small in total area.

Restored Native

In Otago the two bird taxa to have been regionally extirpated and to be reintroduced with extant populations are buff weka and South Island takahē. Buff weka species were formerly widespread in eastern low-rainfall areas from Marlborough / Te Tauihu-o-te-Waka to Southland / Murihiku, but died out on the mainland, only surviving on the Chatham Islands / Rēkohu / Wharekauri and and Pitt Island / Rangihaute / Rangiāuria where it was introduced in 1905. Following reintroduction attempts, buff weka are currently found on four islands in two lakes in Otago, and reintroduced individuals may be remnant in the Motatapu Valley. Although South Island takahē have been translocated to Orokonui Ecosanctuary and the Greenstone Valley, they are not yet self-sustaining populations. Although South Island saddleback / tieke were translocated to Orokonui Ecosanctuary in 2009 and 2013, a population did not establish due to a stoat incursion in 2015, despite initially showing promising signs (Otago Natural History Trust 2019). South Island kākā have also been reintroduced to Orokonui Ecosanctuary, with conspecifics already being within the region.

Introduced Native

The only bird taxon with the Introduced Native qualifier was the Haast tokoeka. Since 2010 Haast tokoeka / tokoeka have been in Otago at Orokonui Ecosanctuary, where there is now estimated to between 35 mature individuals in the lower sanctuary. Although there are additional Haast tokoeka / tokoeka in the upper sanctuary these birds are part of a creche where they are reared until they are larger enough to be released in the wild. Although Haast tokoeka / tokoeka were unlikely to have been the kiwi subspecies in the eastern Te Waipounamu / South Island, there was likely a tokoeka taxon found nearby.

Former Resident

At least three bird taxa formerly had breeding populations (existing for more than 50 years) in Otago but were extirpated from the region yet continue to arrive as a regional vagrant or migrant: black stilt / kakī and southern New Zealand dotterel / pukunui. The black stilt / kakī was once widespread in Aotearoa New Zealand, but the range contracted to Waitaha / Canterbury and Otago in the 1950s, South Canterbury-North Otago by the 1970s, and the Mackenzie Basin / Te Manahuna by the 1980s. Outside the breeding season most black stilt / kakī move locally within the Mackenzie Basin / Te Manahuna, but < 10 individuals visit the Otago region each year, making them currently a Regional Vagrant. The southern New Zealand dotterel / tūturiwhatu was formerly widespread on Te Waipounamu / South Island but was extirpated by about 1900. The breeding range is now confined to Rakiura / Stewart Island, but occasionally birds are seen in Otago, so they are a Regional Vagrant. Although Fiordland crested penguin / tawaki breed in South Westland, many sites in Te Rua-o-Te-Moko / Fiordland, Hautere / Solander Island, Whenua Hou / Codfish Island and Rakiura / Stewart Island and outliers, historic accounts and fossil records suggest breeding was more

widespread in the past, including in Otago. More than 15 Fiordland crested penguin / tawaki are resumed to visit the Otago region each year, making the taxon a Regional Migrant.

Presence of Bird Taxa in Territorial Authorities, Coastal Marine Area, and Freshwater Management Units or rohe

Numerous bird taxa are present in every Territorial Authorities, Coastal Marine Area, and Freshwater Management Unit or rohe in the Otago Region for the categories of Regionally Threatened, Regionally At Risk, Regionally Non-resident (Migrant and Coloniser only), Regionally Introduced and Naturalised, and Regionally Conservation Translocated bird (Tables 2 and 3). In these categories 123 bird taxa were recorded as present in Territorial Authorities or the Coastal Marine Area, with 98 on them being native (Table 2). The most speciose territorial authority is Dunedin City Council with 86, followed by Clutha District Council with 80, Waitaki District Council (Otago part only) with 77 taxa, followed by Queenstown Lakes District Council with 73, and Central Otago District Council with 63 taxa. The Region had 70 bird taxa (68 native, 2 Introduced and Naturalised) recorded from its Coastal Marine area, particularly highlighting the importance of Otago's coastal and marine space to indigenous biodiversity in Aotearoa New Zealand. All Regional Migrants in Otago were recorded from in or near to the Coastal Marine Area (Table 2). The Regional Migrants were all seabirds except for the white heron / kōtuku.

Of the above categories the number of bird taxa recorded in Otago Regional Council's Freshwater Management Units (FMU) or rohe range 95, with 68 of these being native (Table 3). The most speciose FMU or rohe is the Dunedin & Coast FMU with 83 taxa, followed by Catlins FMU with 79 taxa, North Otago with 78 taxa, Taiari FMU with 74 taxa, Lower Clutha Rohe with 73 taxa, Upper Lakes Rohe with 72, Dunstan Rohe with 62 taxa, and both Manuherekia Rohe and Roxburgh Rohe with 56.

Summary

In this report, and for the first time, the number of bird species recorded in the Otago Region since human arrival were identified and collated systematically. A panel of experts then applied a consistent framework to assign the conservation status, trends and qualifiers to these taxa. These findings highlighted in Otago a high number of Regionally Threatened, Regionally At Risk, Regionally Data Deficient, and Regionally Non-resident Natives.

Although DOC is tasked with managing indigenous taxa nationally, regional and district councils have a statutory obligation to maintain indigenous biodiversity under the RMA, including to protect habitats of Threatened taxa. An understanding of regional population sizes of bird taxa and their distributions should help to inform management. For example, this could include by informing Assessments of Environmental Effects through RMA consenting processes; and the prioritisation of conservation or restoration activities by regional council and territorial authorities, such as by pest animal and plant control, or monitoring to assess

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effectiveness of management interventions. The benefits to be gained from assessing the threat to indigenous taxa at a regional scale, which are complementary to national assessments, include:

- improved knowledge of the status of taxa across the region,
- direction for local government and community groups to prioritise conservation actions that can work in synergy with or provide additionality to the work of DOC,
- an improved ability to protect taxa through regulatory processes, and
- improved national conservation assessments of species through greater local input.

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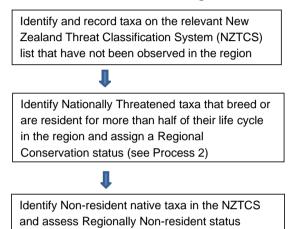
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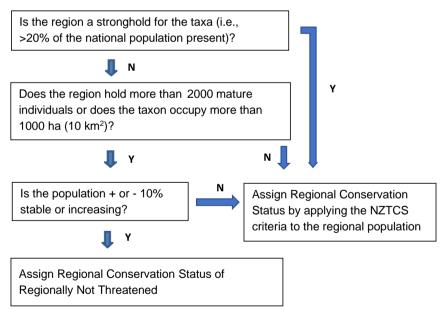
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Appendix 1: Process for determining the regional threat status of taxa

Process 1: Determination of regional threat status



Process 2: Determination of strongholds and Regionally Not Threatened species



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Appendix 2: List of Regional Qualifiers for Regional Conservation Threat Assessments

Code	Qualifier	Description			
FR Former Resident Breeding population (existed for more than 50 years) extirpated from region I		Breeding population (existed for more than 50 years) extirpated from region but continues to arrive as a regional vagrant or migrant.			
		FR and RN are mutually exclusive.			
HR	Historical Range	The inferred range (extending in any direction) of the taxon in pre-human times meets its natural limit in the region.			
IN	Introduced Native	Introduced to the region, though not known to have previously occurred in it.			
NStr	National Stronghold	More than 20% of the national population breeding or resident for more than half their life cycle in the region.			
NR	Natural Range	The known range (extending in any direction) of the taxon meets it natural limit in the region.			
RE	Regional Endemic	Known to breed only in the region.			
RN	Restored Native	Reintroduced to the region after having previously gone extinct there.			
TL	Type Locality	The type locality of the taxon is within the region. Ignore if the taxon is or has ever been regionally extinct			

Appendix 3: List of National Qualifiers from the New Zealand Threat Classification System (Townsend et al. 2008; Michel 2021; Rolfe et al. 2021)

Code	Qualifier	Qualifier Type	Description	
DPR	Data Poor: Recognition	Assessment Process Qualifier	Confidence in the assessment is low because of difficulties determining the identity of taxon in the field and/or in the laboratory. Taxa that are DPR will often be DPS and DPT. In such cases, the taxon is most likely to be Data Deficient.	
DPS	Data Poor: Size	Assessment Process Qualifier	Confidence in the assessment is low because of a lack of data on population size.	
DPT	Data Poor: Trend	Assessment Process Qualifier	Confidence in the assessment is low because of a lack of data on population trend.	
DE	Designated	Assessment Process Qualifier	A taxon that the Expert Panel has assigned to what they consider to be the most appropriate status without full application of the criteria. For example, a commercial fish that is being fished down to Biomass Maximum Sustainable yield (BMSy) may meet criteria for 'Declining', however, it could be designated as 'Not Threatened' if the Expert Panel believes that this better describes the taxon's risk of extinction.	
IE	Island Endemic	Biological Attribute Qualifier	A taxon whose naturally distribution is restricted to one island archipelago (e.g., Auckland Island / Mauka Huka) and is not part of the Te Ika-a-Māui / North Island or Te Waipounamu / South Island or Steward Island / Rakiura. This qualifier is equivalent to the 'Natural' Population State value in the database.	
NS	Natural State	Biological Attribute Qualifier	A taxon that has a stable or increasing population that is presumed to be in a natural condition, i.e., has not experienced historical human-induced decline.	
RR	Range Restricted	Biological Attribute Qualifier	A taxon naturally confined to specific substrates, habitats or geographic areas of less than 100 km2 (100,000 ha), this is assessed by taking into account the area of occupied habitat of all sub-populations (and summing the areas of habitat if there is more than one sub-population), e.g., Chatham Island forget-me-not (<i>Myosotidium hortensia</i>) and Auckland Island snipe (<i>Coenocorypha aucklandica aucklandica</i>).	
			This qualifier can apply to any 'Threatened' or 'At Risk' taxon. It is redundant if a taxon is confined to 'One Location' (OL)	
Sp	Biologically Sparse	Biological Attribute Qualifier	The taxon naturally occurs within typically small and widely scattered subpopulations. This qualifier can apply to any 'Threatened' or 'At Risk' taxon.	

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Code	Qualifier	Qualifier Type	Description		
NO	Naturalized Overseas	Population State Qualifier	An Aotearoa New Zealand endemic taxon that has been introduced by human agency to another country (deliberately or accidentally) and has naturalised there, e.g., <i>Olearia traversiourum</i> in the Republic of Ireland.		
OL	One Location	Population State Qualifier	Found at one location in Aotearoa New Zealand (geographically or ecologically distinct area) of less than 100,000 ha (1000 km2), in which a single event (e.g., a predator irruption) could easily affect all individuals of the taxon, e.g., L'Esperance Rock groundsel (<i>Senecio esperensis</i>) and Open Bay leech (<i>Hirudobdella antipodum</i>). 'OL' can apply to all 'Threatened', 'At Risk', 'Non- resident Native' – Coloniser and Non-resident Native – Migrant taxa, regardless of whether their restricted distribution in Aotearoa New Zealand is natural or human-induced. Resident native taxa with restricted distributions but where it is unlikely that all sub-populations would be threatened by a single event (e.g., because water channels within an archipelago are larger than known terrestrial predator swimming distances) should be qualified as 'Range Restricted' (RR).		
SO	Secure Overseas	Population State Qualifier	The taxon is secure in the parts of its natural range outside Aotearoa New Zealand.		
SO?	Secure Overseas?	Population State Qualifier	It is uncertain whether a taxon of the same that is secure in the parts of its natural range outside Aotearoa New Zealand is conspecific with the Aotearoa New Zealand taxon.		
\$?0	Secure? Overseas	Population State Qualifier	It is uncertain whether the taxon is secure in the parts of its natural range outside Aotearoa New Zealand.		
ТО	Threatened Overseas	Population State Qualifier	The taxon is threatened in the parts of its natural range outside Aotearoa New Zealand.		
TO?	Threatened Overseas?	Population State Qualifier	It is uncertain whether a taxon of the same name that is threatened in the parts of its natural range outside New Zealand is conspecific with the New Zealand taxon.		
T?O	Threatened? Overseas	Population State Qualifier	It is uncertain whether the taxon is threatened in the parts of its natural range outside Aotearoa New Zealand.		

List of National Qualifiers from the New Zealand Threat Classification System

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Code	Qualifier	Qualifier Type	Description
CI	Climate Impact	Pressure Management Qualifier	The taxon is adversely affected by long-term climate trends and/or extreme climatic events.
		Qualitor	The following questions provide a guide to using the CI Qualifier:
			Is the taxon adversely affected by long-term changes in the climate, such as an increase in average temperature or sea-level rise?
			If NO = no Qualifier but needs monitoring and periodic re-evaluation because projected changes
			to the average climate and sea-level rise may adversely impact the taxon (including via changes to the distribution and prevalence of pests, weeds and predators) in the future. If YES = CI Qualifier
			Is the taxon adversely affected by extreme climate events, such as a drought, storm or heatwave?
			If No = no Qualifier but needs monitoring and periodic re-evaluation because projected changes
			to the climate are likely to increase the frequency and/or severity of these events in the future. If YES = CI Qualifier
			Use of the Climate Impact Qualifier would indicate the need for more in-depth research, ongoing monitoring of climate impacts, and potentially a climate change adaptation plan for the taxon
CD	Conservation	Pressure Management	The taxon is likely to move to a worse conservation status if current management ceases. The
	Dependent	Qualifier	term 'management' can include indirect actions that benefit taxa, such as island biosecurity.
			Management can make a taxon CD only if cessation of the management would result in a worse
			conservation status. The influence of the benefits of management on the total population must
			be considered before using CD. The benefit of managing a single subpopulation may not be adequate to trigger CD, but may trigger Partial Decline (PD).
			Taxa qualified CD may also be PD because of the benefits of management.
CR	Conservation Research Needed	Pressure Management Qualifier	Causes of decline and/or solutions for recovery are poorly understood and research is required.

List of National Qualifiers from the New Zealand Threat Classification System

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List of National	Qualifiers fron	n the New Zealan	d Threat Classificatio	n System
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Code	Qualifier	Qualifier Type	Description
EW	Extinct In The Wild	Pressure Management	The taxon is known only in captivity or cultivation or has been reintroduced to the wild but is not
		Qualifier	self-sustaining. Assessment of a reintroduced population should be considered only when it is
			self-sustaining. A population is deemed to be self-sustaining when the following two criteria
			have been fulfilled: it is expanding or has reached a stable state through natural replenishment
			and at least half the breeding adults are products of the natural replenishment, and it has been
			at least 10 years since reintroduction
EF	Extreme Fluctuations	Pressure Management	The taxon experiences extreme unnatural population fluctuations, or natural fluctuations
		Qualifier	overlaying human-induced declines, that increase the threat of extinction. When ranking taxa
			with extreme fluctuations, the lowest estimate of mature individuals should be used for
			determining population size, as a precautionary measure.
INC	Increasing	Pressure Management	There is an ongoing or forecast increase of > 10% in the total population, taken over the next
		Qualifier	10 years or three generations, whichever is longer.
			This qualifier is redundant for taxa ranked as 'Recovering'.
PD	Partial Decline	Pressure Management	The taxon is declining over most of its range, but with one or more secure populations (such as
		Qualifier	on offshore islands).
			Partial decline taxa (e.g., North Island kākā Nestor meridionalis septentrionalis and Pacific
			gecko Dactylocnemis pacificus) are declining towards a small stable population, for which the
			Relict qualifier may be appropriate.
PF	Population	Pressure Management	Gene flow between subpopulations is hampered as a direct or indirect result of human activity.
	Fragmentation	Qualifier	Naturally disjunct populations are not considered to be 'fragmented'.
PE	Possibly/Presumed	Pressure Management	A taxon that has not been observed for more than 50 years but for which there is little or no
	Extinct	Qualifier	evidence to support declaring it extinct.
			This qualifier might apply to several Data Deficient and Nationally Critical taxa.
RF	Recruitment Failure	Pressure Management	The age structure of the current population is such that a catastrophic decline is likely in the
		Qualifier	future.
			Failure to produce new progeny or failure of progeny to reach maturity can be masked by
			apparently healthy populations of mature specimens.
			Continued on next page

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Code	Qualifier	Qualifier Type	Description
Rel	Relict	Pressure Management	The taxon has declined since human arrival to less than 10% of its former range but its
		Qualifier	population has stabilised.
			The range of a relictual taxon takes into account the area currently occupied as a ratio of its former extent. Reintroduced and self-sustaining populations within or outside the former known range of a taxon should be considered when determining whether a taxon is relictual.
			This definition is modified from the definition of the At Risk – Relict category in the NZTCS manual (Townsend et al. 2008). The main difference is that trend is not included in the qualifier definition. This enables the qualifier to be applied to any taxon that has experienced severe range contraction, regardless of whether that contraction continues or has been arrested.
			This qualifier complements the 'Naturally Uncommon (NU)' qualifier which can be applied to taxa whose abundance has declined but which continue to occupy a substantial part of their natural range.

Appendix 4: Name differences affecting bird taxa found in the Otago region between this report which follows Robertson et al. (2021) and the publication of the Checklist of the Birds of New Zealand (Checklist Committee, 2022). The Notes column includes information on geographical variation and/or distribution information.

Name and Authority in this Report	Common Name and Māori Name from the National Assessment	Name and Authority in Committee Checklist	Common Name in Committee Checklist	Notes
Anas chlorotis "South Island" G.R. Gray, 1845	South Island brown teal / pāteke*	Anas chlorotis G.R. Gray, 1845	brown teal / pāteke	Geographical variation in Committee Checklist: Nil. Originally widely distributed in lowland swamps and swamp forests of both main islands and Rakiura / Stewart Island, where it was the most common duck species in pre-human deposits (Worthy 2002a, 2004); now rare and localised.
<i>Anas clypeata</i> Linnaeus, 1758	northern shoveler	<i>Spatula clypeata</i> (Linnaeus, 1758)	northern shoveler	Geographical variation in Committee Checklist: Nil.
Anas platyrhynchos Linnaeus, 1758	mallard duck / rakiraki	Anas platyrhynchos platyrhynchos Linnaeus, 1758	mallard	Geographical variation in the Checklist Committee: None now recognised. However, formerly thought could be seven subspecies, although some uncertainty. Introduced to Aotearoa New Zealand from the United Kingdom (1865–1920s) and North America (1937) and reared extensively for release until the 1960s. Now a widespread waterfowl in Aotearoa New Zealand.
Anas rhynchotis (Latham, 1802)	Australasian shoveler / kuruwhengi	<i>Spatula rhynchotis</i> (Latham, 1802)	Australasian shoveler	Geographical variation in the Checklist Committee: None now recognised but formerly considered a separate subspecies (<i>A. r. variegata</i>) from that in Australia (<i>A. r. rhynchotis</i>).

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Name differences continued

Name and Authority	Common Name in	Name and Authority in	Common Name in	Notes
in this Report	this Report	Committee Checklist	Committee Checklist	
Ardea modesta J.E.	white heron /	Ardea alba modesta J.E.	white heron	Geographical variation in the Checklist Committee: Four
Gray, 1831	kōtuku	Gray, 1831		subspecies are globally recognised, with the eastern great
				egret (Ardea modesta = A. a. modesta) occurring from
				eastern Asia to Australasia, including a small population in
				Aotearoa New Zealand. Sometimes considered a full species.
				Notes: Its sole Aotearoa New Zealand breeding site near
				Ōkarito Lagoon in Westland is well-known and well-protected,
				but elsewhere it is 'He kōtuku rerenga tahi' or the bird of single
				flight, implying something seen perhaps once in a lifetime.
Ardea ibis coromanda	eastern cattle egret	Bubulcus ibis	eastern cattle egret	Geographical variation in the Checklist Committee: Three
Boddaert, 1783		coromandus (Boddaert,		subspecies recognised, with the eastern cattle egret
		1783)		Bubulcus ibis coromandus throughout south-east Asia and
				south to Australia and Aotearoa New Zealand.
Arenaria interpres	ruddy turnstone	Arenaria interpres	ruddy turnstone	Geographical variation in the Checklist Committee: Two
(Linnaeus, 1758)		<i>interpres</i> (Linnaeus, 1758)		subspecies; Aotearoa New Zealand birds are A. i. interpres.
Ardea intermedia	plumed	Ardea intermedia	plumed egret	Geographical variation in the Checklist Committee: There are
plumifera Wagler, 1829	intermediate egret	plumifera Wagler, 1829		3 subspecies of Ardea intermedia; Aotearoa New Zealand
				birds are likely to be A. i. plumifera.
Ardea pacifica Latham,	white-necked heron	Ardea pacifica Latham,	Pacific heron	Geographical variation in Committee Checklist: Nil.
1802		1802		
Bowdleria punctata	South Island	Poodytes punctatus	South Island fernbird	Geographical variation in Checklist Committee: Five
punctata Quoy &	fernbird / mātātā	punctatus		subspecies, all extant. In Otago, South Island fernbird /
Gaimard, 1830		(Quoy & Gaimard, 1830)		mātātā P. p. punctatus.

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Name differences continued

Name and Authority in this Report	Common Name in this Report	Name and Authority in Committee Checklist	Common Name in Committee Checklist	Notes
<i>Branta canadensis</i> Linnaeus, 1758	Canada goose / kuihi	Branta canadensis maxima Linnaeus, 1758	Canada goose	Geographical variation in Checklist Committee: A native North American goose with an extensive history of population and substructure and with each grouping distinguishable by size and phenotype. The Aotearoa New Zealand population is primarily descended from an importation of 50 birds in 1905. The size and plumage characteristics matched those of the largest race recognised, <i>B. canadensis maxima</i> .
Calidris canutus rogersi Mathews, 1913	lesser knot / huahou*	<i>Calidris canutus rogersi</i> Mathews, 1913	red knot	Geographical variation in Checklist Committee: Six subspecies globally; two reach Aotearoa New Zealand (<i>rogersi</i> , breeding in Chukotka, eastern Russia, and <i>piersmai</i> , breeding on the New Siberian Islands).
<i>Callipepla californica</i> Shaw, 1798	California quail / tikaokao	Callipepla californica brunnescens Ridgeway 1884	California quail	Introduced to Aotearoa New Zealand from 1865 to 1875 in both Te Ika-a-Māui / North Island and Te Waipounamu / South Island with subsequent liberations of Aotearoa New Zealand-bred stock. Now widely distributed.
<i>Carduelis carduelis</i> Linnaeus, 1758	European goldfinch / kōurarini	<i>Carduelis carduelis britannica</i> Hartert, 1903	European goldfinch	Geographical variation in Checklist Committee: Aotearoa New Zealand birds are assigned to the subspecies <i>britannica</i> .
<i>Carduelis chloris</i> (Linnaeus, 1758)	European greenfinch	Chloris chloris (Linnaeus, 1758)	European greenfinch	Geographical variation in Checklist Committee: The subspecies that Aotearoa New Zealand birds belong to is uncertain.
<i>Carduelis flammea</i> (Linnaeus, 1758)	common redpoll	Acanthis flammea (Linnaeus, 1758)	common redpoll	Geographical variation in Checklist Committee: Aotearoa New Zealand birds are assigned to the subspecies <i>cabaret</i> .
Catharacta maccormicki (Saunders, 1893)	Antarctic skua	Stercorarius maccormicki Saunders, 1893	south polar skua	Geographical variation in Checklist Committee: As with the subantrarctic skua, taxonomy is disputed by experts, with some designating the genus as <i>Catharacta</i> , others as <i>Stercorarius</i> . A polymorphic skua, with no determined geographical basis to the circumpolar distribution of its three morphs.

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Name differences continued

Name and Authority in this Report	Common Name in this Report	Name and Authority in Committee Checklist	Common Name in Committee Checklist	Notes
Catharacta antarctica Ionnbergi Mathews, 1912	subantarctic skua / hākoakoa	Stercorarius antarctica Ionnbergi Mathews, 1912	subantarctic skua	Geographical variation in Checklist Committee: As with the Antarctic skua, taxonomy is disputed by experts, with some designating the genus as <i>Stercorarius</i> , others as <i>Catharacta</i> . Aotearoa New Zealand's subantarctic skuas / hākoakoa are currently referred to in Aotearoa New Zealand as <i>Stercorarius</i> <i>antarcticus lonnbergi</i> .
<i>Circus approximans</i> Peale, 1848	Australasian harrier / kāhu	<i>Circus approximans</i> Peale, 1848	swamp harrier	Geographical variation in Committee Checklist: Nil.
Charadrius mongolus Pallas, 1776	Mongolian dotterel	Charadrius mongolus Pallas, 1776	lesser sand plover	Geographical variation in Committee Checklist: Five races globally recognised, with three 'black-faced' and more westerly breeding (<i>pamierensis</i> , <i>atrifrons</i> , <i>schaferi</i>), and two with white on their foreheads when breeding, that breed in eastern Siberia (<i>mongolus</i> and <i>stegmanni</i>).
<i>Charadrius ruficapillus</i> Temminck, 18	red-capped dotterel	<i>Charadrius ruficapillus</i> Temminck, 1821	red-capped plover	Geographical variation in Committee Checklist: Nil.
<i>Coprotheres pomarinus</i> (Temminck, 1815)	pomarine skua	Stercorarius pomarinus (Temminck, 1815)	pomarine skua	Geographical variation in Committee Checklist: Nil.
Cuculus pallidus (Latham, 1801)	pallid cuckoo	Cacomantis pallidus (Latham, 1802)	pallid cuckoo	Notes: The pallid cuckoo breeds in south-western and south- eastern Australia, migrating north after breeding to northern Australia, Papua New Guinea, Indonesia, Timor-Leste, Moluccas and Lesser Sundas. It is common in Australia, but a vagrant to Aotearoa New Zealand, no breeding records here. The first bird visited the same central Otago farm for Three consecutive years during the non-breeding season (May-October), from 1939 to 1941.

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Name differences continued

Name and Authority	Common Name in	Name and Authority in	Common Name in	Notes
in this Report	this Report	Committee Checklist	Committee Checklist	
<i>Dacelo novaeguineae</i> Hermann, 1783	laughing kookaburra	Dacelo novaeguineae novaeguineae Hermann, 1783	laughing kookaburra	Geographical variation in Committee Checklist: Aotearoa New Zealand birds are assigned to the subspecies <i>novaeguineae.</i>
				Notes: Sightings of single birds from elsewhere in Te Ika-a- Māui / North Island (Cape Maria van Diemen, Waikato, Tairāwhiti / Gisborne) and from Te Waipounamu / South Island (Westland, Otago) are regarded as vagrants, either from Northland or Australia. Kookaburras inhabit open wooded country and forest margins.
Egretta	white-faced heron /	Egretta novaehollandiae	white-faced heron	Geographical variation in Checklist Committee: Two
novaehollandiae	matuku moana	novaehollandiae		subspecies, with E. n. novaehollandiae found in Aotearoa
(Latham, 1790)		(Latham, 1790)		New Zealand.
Eolophus roseicapillus (Vieillot, 1817)	galah	Eolophus roseicapilla (Vieillot, 1817)	galah	Notes: Galah are localised in distribution, with the only wild population spread widely over the South Tāmaki Makaurau / Auckland area, including a breeding population on Ponui Island in the Hauraki Gulf. Present in Aotearoa New Zealand as a cage-bird. Presumed escapees recorded elsewhere.
Eudyptula minor albosignata Finsch, 1874	white-flippered blue penguin / kororā	Eudyptula minor minor J.R. Forster, 1781	New Zealand little penguin	Geographical variation in Checklist Committee: Two subspecies are currently recognised by the Checklist of the Birds of New Zealand (Checklist Committee): 1) Australian populations (<i>E. m. novaehollandiae</i>) and some Otago birds, and 2) all remaining populations including some Otago birds (<i>E. m. minor</i>). The second clade includes birds previously assigned to <i>E. m. iredalei</i> (northern Aotearoa New Zealand), <i>E. m. variabilis</i> (Te Moana-o-Raukawa / Cook Strait), <i>E. m. albosignata</i> (the white-flippered penguin of North Canterbury), <i>E. m. chathamensis</i> (Chatham Islands / Rēkohu / Wharekauri), and some <i>E. m. minor</i> (southern Aotearoa New Zealand).

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Name differences continued

Name and Authority in this Report	Common Name in this Report	Name and Authority in Committee Checklist	Common Name in Committee Checklist	Notes
Eudyptula minor minor J.R. Forster, 1781	southern blue penguin / kororā	Eudyptula minor minor J.R. Forster, 1781	New Zealand little penguin	Geographical variation in Checklist Committee: Two subspecies are currently recognised by the Checklist of the Birds of New Zealand (Checklist Committee): 1) Australian populations (<i>E. m. novaehollandiae</i>) and some Otago birds, and 2) all remaining populations including some Otago birds (<i>E. m. minor</i>). The second clade includes birds previously assigned to <i>E. m. iredalei</i> (northern Aotearoa New Zealand), <i>E. m. variabilis</i> (Te Moana-o-Raukawa / Cook Strait), <i>E. m. albosignata</i> (the white-flippered penguin of North Canterbury), <i>E. m. chathamensis</i> (Chatham Islands / Rēkohu / Wharekauri), and some <i>E. m. minor</i> (southern Aotearoa New Zealand).
Eudyptula novaehollandiae (Stephens, 1826)	Australian little penguin / kororā*	Eudyptula minor novaehollandiae (Stephens, 1826)	Australian little penguin	Geographical variation in Checklist Committee: Two subspecies recognised: (1) Australian populations (<i>E. m.</i> <i>novaehollandiae</i>) and some Otago birds, and (2) all remaining populations including some Otago birds (<i>E. m.</i> <i>minor</i>). The second clade includes all birds previously assigned to <i>E. m. iredalei</i> (northern Aotearoa New Zealand), <i>E. m. variabilis</i> (Te Moana-o-Raukawa / Cook Strait), <i>E. m.</i> <i>albosignata</i> (the white-flippered penguin of North Canterbury), <i>E. minor chathamensis</i> (Chatham Islands / Rēkohu / Wharekauri), and some <i>E. m. minor</i> (southern Aotearoa New Zealand).

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Name differences continued

Name and Authority	Common Name in	Name and Authority in	Common Name in	Notes	
in this Report	this Report	Committee Checklist	Committee Checklist		
Falco novaeseelandiae novaeseelandiae (Gmelin 1788)	eastern falcon / kārearea	Falco novaeseelandiae (Gmelin 1788)	New Zealand falcon	Geographical variation in Checklist Committee: A s variable species divided into three forms: bush fa smallest and darkest, from Te Ika-a-Māui / North Island north-west Te Waipounamu / South Island; eastern fai 103kārearea103, largest and lightest, from eastern central Te Waipounamu / South Island; southern fa intermediate in size and colour, from Te Rua-o-Te-M Fiordland, Rakiura / Stewart Island and Auckland Isl Mauka Huka. Notes: Trewick & Olley (2016) proposed recogr subspecies on both Te Ika-a-Māui / North Island an Waipounamu / South Island based primarily on a difference between islands. However, this conclusion wa supported by genetic study, and did not adequately tes proposal of Fox (1988) to recognise three forms, one of occurs on both Te Ika-a-Māui / North Island an Waipounamu / South Island (Marchant & Higgins 1 Therefore, the Checklist Committee continued to reco no subspecies pending a more comprehensive study.	
				,	
Gallinula hodgenorum (Scarlett, 1955)	Hodgens' waterhen	<i>Tribonyx hodgenorum</i> (Scarlett, 1955)	Hodgens' waterhen	Geographical variation in Committee Checklist: Nil.	
Larus bulleri Hutton, 1871	black-billed gull / tarāpuka	<i>Chroicocephalus bulleri</i> (Hutton, 1871)	black-billed gull	Geographical variation in Committee Checklist: Nil.	
<i>Larus dominicanus dominicanus</i> Lichtenstein, 1823	southern black- backed gull / karoro	<i>Larus dominicanus</i> Lichtenstein, 1823	southern black-backed gull	Geographical variation in Committee Checklist: Five subspecies recognised; Aotearoa New Zealand birds are of the subspecies <i>dominicanus</i> .	

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Name differences continued

Name and Authority	Common Name in	Name and Authority in	Common Name in	Notes
in this Report	this Report	Committee Checklist	Committee Checklist	
Larus novaehollandiae scopulinus J. R. Forster, 1843	red-billed gull / tarāpunga	Chroicocephalus novaehollandiae scopulinus (J.R. Forster, 1843)	red-billed gull	Geographical variation in Checklist Committee: Genetic research revealed five populations; Aotearoa New Zealand birds are <i>C. n. scopulinus</i>).
Limosa haemastica	American black-	Limosa haemastica	Hudsonian godwit	Geographical variation in Committee Checklist: Nil.
(Linnaeus, 1758)	tailed (Hudsonian) godwit	(Linnaeus, 1758)		
Megadyptes antipodes (Hombron & Jacquinot, 1841)	yellow-eyed penguin / hoiho	Megadyptes antipodes antipodes (Hombron & Jacquinot, 1841)	yellow-eyed penguin	Geographical variation in Committee Checklist: Three subspecies, with two extinct. The nominate subspecies is the extant yellow-eyed penguin / hoiho (<i>M. a. antipodes</i>) of the eastern Te Waipounamu / South Island, Rakiura / Stewart Island, Auckland Island / Mauka Huka, and Campbell Island / Motu Ihupuku.
<i>Meleagris gallopavo</i> Linnaeus, 1758	wild turkey / korukoru	<i>Meleagris gallopavo gallopavo</i> Linnaeus, 1758	Gould's wild turkey	Notes: A large, well-known domesticated farm bird. Feral turkey populations are widely established in rough farmland throughout Aotearoa New Zealand; scattered eastern locations in the Te Waipounamu / South Island.
Mergus australis	Auckland Island	Mergus australis	Auckland Island	Geographical variation in Committee Checklist: none
Hombron & Jacquinot, 1841	merganser	Hombron & Jacquinot, 1841	merganser / miuweka*	described. Notes: The specific identity of Te Ika-a-Māui / North Island, Te Waipounamu / South Island, and Rakiura / Stewart Island
				Mergus bones is unresolved.
Passer domesticus (Linnaeus, 1758)	house sparrow / tiu	Passer domesticus domesticus (Linnaeus, 1758)	house sparrow	Aotearoa New Zealand birds are assigned to the nominate subspecies <i>domesticus</i> .

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Name differences continued

Name and Authority in this Report	Common Name in this Report	Name and Authority in Committee Checklist	Common Name in Committee Checklist	Notes	
Phalacrocorax melanoleucos brevirostris Gould, 1837	little shag / kawaupaka	Microcarbo melanoleucos brevirostris (Gould, 1837)	little shag	Geographical variation in Committee Checklist: Three subspecies are globally recognised. Actearoa New Zealand birds are of the subspecies <i>brevirostris</i> whose different plumage forms freely interbreed.	
Pelecanoides whenuahouensis Fischer et al., 2018	Whenua Hou diving petrel / kuaka Whenua Hou	0 0	Whenua Hou diving petrel	Geographical variation in Committee Checklist: subspecies: <i>P. g. whenuahouensis</i> breeding only on Wh Hou / Codfish Island, and the more widespread nom subspecies.	
Porzana tabuensis tabuensis Gmelin, 1789	spotless crake / pūweto	Zapornia tabuensis tabuensis (Gmelin, 1789)	spotless crake	Geographical variation in Committee Checklist: Aotearoa New Zealand populations are included in the nominate subspecies <i>tabuensis</i> , ranging from the Philippines to south- west Polynesia, including Australia and Aotearoa New Zealand. Two other subspecies have been named from the highlands of New Guinea.	
Pterodroma cookii (G.R. Gray, 1843)	northern Cook's petrel / tītī	Pterodroma cookii cookii (G.R. Gray, 1843)	northern Cook's petrel	Geographical variation in Committee Checklist: Two subspecies in Aotearoa New Zealand: northern Cook's petrel / tītī (<i>Pt. c. cookii</i>) breeding on Hauturu / Little Barrier, with a few pairs on Aotea / Great Barrier, and southern Cook's petrel (<i>Pt. c. orientatlis</i>) breeding on Whenua Hou / Codfish Island.	
<i>Puffinus bulleri</i> Salvin, 1888	Buller's shearwater / rako	<i>Ardenna bulleri</i> (Salvin, 1888)	Buller's shearwater	Geographical variation in Committee Checklist: Nil.	
<i>Puffinus carneipes</i> Gould, 1844	flesh-footed shearwater / toanui	Ardenna carneipes (Gould, 1844)	flesh-footed shearwater	Geographical variation in Committee Checklist: Nil.	
<i>Puffinus gravis</i> O'Reilly, 1818	great shearwater	Ardenna gravis (O'Reilly, 1818)	great shearwater	Geographical variation in Committee Checklist: Nil.	

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Name differences continued

Name and Authority	Common Name in	Name and Authority in	Common Name in	Notes	
in this Report	this Report	Committee Checklist	Committee Checklist		
<i>Puffinus griseus</i> (Gmelin, 1789)	sooty shearwater / tītī	Ardenna grisea (Gmelin, 1789)	sooty shearwater	Geographical variation in Checklist Committee: Nil.	
Puffinus tenuirostris Temminck, 1836	short-tailed shearwater	Ardenna tenuirostris (Temminck, 1836)	short-tailed shearwater	Geographical variation in Checklist Committee: Nil.	
<i>Pygoscelis papua</i> J.R. Forster, 1781	gentoo penguin	Pygoscelis papua taeniata (Peale, 1848)	eastern gentoo penguin	Geographical variation in Checklist Committee: Tw subspecies: northern gentoo penguin <i>P. p. papua</i> breeds of subantarctic islands, and the smaller southern gento penguin <i>P. p. ellsworthii</i> on the Antarctic Peninsula ar adjacent islands.	
Sceloglaux albifacies albifacies G.R. Gray, 1844	South Island laughing owl / whēkau*	Ninox albifacies albifacies (G.R. Gray, 1844)	South Island laughing owl	Geographical variation in Checklist Committee: Te Ika-a-Māui / North Island and Te Waipounamu / South Island specimens are sometimes treated as different subspecies on the basis of size and minor plumage differences.	
<i>Sterna striata striata</i> Gmelin, 1789	white-fronted tern / tara	Sterna striata (Gmelin, 1789)	white-fronted tern	Geographical variation in Checklist Committee: Nil.	
<i>Sterna hirundo</i> <i>longipennis</i> Nordmann, 1835	eastern common tern	<i>Sterna hirundo</i> , Linnaeus 1835	common tern	Geographical variation in Checklist Committee: Three subspecies are recognised but only the eastern tern <i>S. h. longipennis</i> has been recorded from Aotearoa New Zealand.	
<i>Stictocarbo punctatus</i> (Sparrman, 1786)	spotted shag / kawau tikitiki	Phalacrocorax punctatus (Sparrman, 1786)	spotted shag	Geographical variation in Checklist Committee: No subspecies recognised.	
<i>Sturnus vulgaris</i> Linnaeus, 1758	common starling / tāringi	<i>Sturnus vulgaris vulgaris</i> Linnaeus, 1758	common starling	Geographical variation in Checklist Committee: Aotearoa New Zealand birds are assigned to the subspecies <i>vulgaris</i> .	
Thalassarche melanophris (Temminck, 1828)	black-browed mollymawk / toroa	Thalassarche melanophris (Temminck, 1828)	black-browed albatross	Geographical variation in Checklist Committee: Ni Sometimes considered conspecific with Campbell black browed mollymawk.	

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Name differences continued

Name and Authority in this Report	Common Name in this Report	Name and Authority in Committee Checklist	Common Name in Committee Checklist	Notes
Thalassarche bulleri bulleri Rothschild, 1888	southern Buller's mollymawk / toroa	Thalassarche bulleri bulleri Rothschild, 1888	southern Buller's albatross	Geographical variation in Checklist Committee: Two subspecies, both extant. Northern Buller's mollymawk / toroa, <i>T. bulleri platei</i> ; southern Buller's mollymawk / toroa, <i>T. b.</i> <i>bulleri</i> .
Thalassarche bulleri platei Rothschild, 1888	northern Buller's mollymawk / toroa	<i>Thalassarche bulleri</i> <i>platei</i> (Reichenow, 1888)	northern Buller's albatross	Geographical variation in Checklist Committee: Two subspecies, both extant. Northern Buller's mollymawk / toroa, <i>T. bulleri platei</i> ; southern Buller's mollymawk / toroa, <i>T. b.</i> <i>bulleri</i> .
Thalassarche cauta steadi Falla, 1933	New Zealand white-capped mollymawk / toroa	Thalassarche cauta steadi Falla, 1933	New Zealand white- capped albatross	Geographical variation in Checklist Committee: Two subspecies, both extant. New Zealand white-capped mollymawk / toroa <i>T. cauta steadi</i> ; Tasmanian mollymawk / toroa, <i>T. c. cauta</i> .
<i>Thalassarche impavida</i> Mathews, 1912	Campbell Island mollymawk / toroa	<i>Thalassarche impavida</i> Mathews, 1912	Campbell Island black- browed albatross	Geographical variation in Checklist Committee: Nil.
<i>Thalassarche salvini</i> Rothschild, 1878	Salvin's mollymawk / toroa	<i>Thalassarche salvini</i> Rothschild, 1878	Salvin's albatross	Geographical variation in Checklist Committee: Nil.
<i>Traversia lyalli</i> Rothschild, 1894	Stephens Island wren	<i>Traversia lyalli</i> Rothschild, 1894	Lyall's wren	Geographical variation in Checklist Committee: Nil.
Thalassarche chrysostoma J.R. Forster, 1785	grey-headed mollymawk / toroa	Thalassarche chrysostoma J.R. Forster, 1785	grey-headed albatross	Geographical variation in Checklist Committee: Nil.
Threskiornis m107olucca strictipennis (Gould, 1838)	Australian white ibis	<i>Threskiornis</i> <i>m107olucca m107olucca</i> (Cuvier, 1829)	white ibis	Geographical variation in Checklist Committee: Two subspecies: <i>T m. strictipennis</i> Moluccas and Lesser Sundra Islands, Indonesia, and Australia and southern New Guinea (straying to Aotearoa New Zealand).
<i>Tringa cinerea</i> Guldenstaedt, 1774	Terek sandpiper	Xenus cinereus (Güldenstaedt, 1774)	Terek sandpiper	Geographical variation in Checklist Committee: Nil.
<i>Tringa hypoleucos</i> Linnaeus, 1758	common sandpiper	Actitis hypoleucos (Linnaeus, 1758)	common sandpiper	Geographical variation in Checklist Committee: Nil.

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Name differences continued

Name and Authority	Common Name in	Name and Authority in	Common Name in	Notes	
in this Report	this Report	Committee Checklist	Committee Checklist		
Turdus merula	Eurasian blackbird /	Turdus merula merula	Eurasian blackbird	Geographical variation in Checklist Committee: Aotearoa	
Linnaeus, 1758	manu pango	Linnaeus, 1758		New Zealand birds are assigned to the nominate subspecies	
				T. m. macula.	
Xenicus gilviventris	southern rock wren	Xneicus gilviventris Von	rock wren	Geographical variation in Checklist Committee: The	
rineyi Falla, 1953	/ pīwauwau	Pelzeln, 1867		subspecies rineyi was proposed for birds found in Te Rua-o-	
				Te-Moko / Fiordland, but is not currently recognised. Variation	
				in rock wren throughout their range is under investigation.	

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Appendix 5: Specified Highly Mobile Fauna listed in the National Policy Statement for Indigenous Biodiversity (NPS-IB, 2023) found in the Otago Region (bird taxa only)

Name and Authority in this Report	Common Name in this Report	Regional Conservation Status	Ecosystem from NPS-IB
Anarhynchus frontalis Quoy & Gaimard, 1830	wrybill / ngutu pare	Regionally Critical	coastal/riverine
Anas superciliosa Gmelin, 1789	grey duck / pārera	Regionally Data Deficient	wetland/riverine
Anthus novaeseelandiae novaeseelandiae Gmelin, 1789	New Zealand pipit / pīhoihoi	Regionally Not Threatened (Otago)	forest/open
Ardea modesta J.E. Gray, 1831	white heron / kōtuku	Regionally Migrant	wetland/riverine
Botaurus poiciloptilus (Wagler, 1827)	Australasian bittern / matuku-hūrepo	Regionally Critical	wetland/riverine
<i>Bowdleria punctata punctata</i> Quoy & Gaimard, 1830	South Island fernbird / mātātā	Regionally Declining	wetland/riverine
<i>Calidris canutus rogersi</i> Mathews, 1913	lesser knot / huahou*	Regionally Vagrant	coastal/riverine
<i>Charadrius bicinctus bicinctus</i> Jardine and Selby, 1827	banded dotterel / pohowera	Regionally Vulnerable	coastal/riverine
Charadrius obscurus obscurus Gmelin, 1789	southern New Zealand dotterel / tūturiwhatu	Regionally Vagrant	coastal/riverine
Chlidonias albostriatus (G.R. Gray, 1845)	black-fronted tern / tarapirohe	Regionally Endangered	coastal/riverine
Egretta sacra sacra Gmelin, 1789	reef heron / matuku moana	Regionally Vagrant	coastal/riverine
Falco novaeseelandiae novaeseelandiae (Gmelin 1788)	eastern falcon / kārearea	Regionally Vulnerable	forest/open
Gallirallus philippensis assimilis (G.R.Gray, 1843)	banded rail / moho pererū	Regionally Extinct	wetland/riverine
Haematopus finschi Martens, 1897	South Island pied oystercatcher / torea	Regionally Vulnerable	coastal/riverine
Haematopus unicolor J.R. Forster, 1844	variable oystercatcher / tōrea pango	Regionally Vulnerable	coastal/riverine
<i>Himantopus novaezelandiae</i> Gould, 1841	black stilt / kakī	Regionally Vagrant	wetland/riverine
Hydroprogne caspia (Pallas, 1770)	Caspian tern / taranui	Regionally Migrant	coastal/riverine
Hymenolaimus malacorhynchos (Gmelin, 1789)	whio / kōwhiowhio	Regionally Critical	riverine
Larus bulleri Hutton, 1871	black-billed gull / tarāpuka	Regionally Vulnerable	coastal/riverine

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Specified Highly Mobile Fauna continue	ed		
Name and Authority in this Report	Common Name in this Report	Regional Conservation Status	Ecosystem from NPS-IB
Larus novaehollandiae scopulinus J. R. Forster, 1843	red-billed gull / tarāpunga	Regionally Recovering	coastal/riverine
<i>Limosa lapponica baueri</i> Naumann, 1836	eastern bar-tailed godwit / kūaka	Regionally Vulnerable	coastal/riverine
Nestor meridionalis meridionalis (Gmelin, 1788)	South Island kaka / kākā	Regionally Endangered	forest/open
Nestor notabilis Gould, 1856	kea	Regionally Critical	forest/open
Petroica australis australis Sparrman, 1788	South Island robin / kakaruai	Regionally Vulnerable	forest/open
<i>Phalacrocorax varius varius</i> Gmelin, 1789	pied shag / kāruhiruhi	Regionally Migrant	coastal/riverine
Podiceps cristatus australis Gould, 1844	Australasian crested grebe / pūteketeke	Regionally Vulnerable	wetland/riverine
Poliocephalus rufopectus (G.R. Gray, 1843)	New Zealand dabchick / weweia	Regionally Extinct	wetland/riverine
Porzana pusilla affinis (J.E. Gray, 1845)	marsh crake / kotoreke	Regionally Endangered	wetland/riverine
<i>Porzana tabuensis tabuensis</i> Gmelin, 1789	spotless crake / pūweto	Regionally Critical	wetland/riverine
Sterna striata striata Gmelin, 1789	white-fronted tern / tara	Regionally Vulnerable	coastal/riverine
<i>Thinornis novaeseelandiae</i> Gmelin, 1789	shore plover / tuturuatu*	Regionally Extinct	coastal/riverine
Xenicus gilviventris rineyi Falla, 1953	southern rock wren / pīwauwau	Regionally Critical	forest/open

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Appendix 6: International Union for Conservation of Nature (IUCN) Red List of Threatened Species Name and Authority and IUCN Status for Indigenous Species only

Name and Authority in this Report	Common Name and Māori Name in this Report	IUCN Name and Authority	IUCN Common Name	IUCN Status
REGIONALLY EXTIRPATED				
REGIONALLY EXTINCT				
Anas chlorotis "South Island" G.R. Gray, 1845	South Island brown teal / pāteke*	Anas chlorotis (Gray, 1845)	brown teal	Near Threatened
Apteryx owenii Gould, 1847	little spotted kiwi / kiwi pukupuku	Apteryx owenii Gould, 1847	little spotted kiwi	Near Threatened
Apteryx spp.	tokoeka	Apteryx australis Shaw, 1813	southern brown kiwi	Vulnerable
Callaeas cinerea (Gmelin, 1788)	South Island kokako / kōkā	Callaeas cinerea (Gmelin, 1788)	South Island kokako	Critically Endangered
Gallirallus australis hectori (Hutton, 1873)	buff weka / weka	Gallirallus australis Sparrman, 1786	weka	Vulnerable
Gallirallus philippensis assimilis (G.R.Gray, 1843)	banded rail / moho pererū	Hypotaenidia philippensis (Linnaeus, 1766)	buff-banded rail	Least Concern
Pelecanoides georgicus whenuahouensis Fischer, Debski, Miskelly, Bost, Fromant, Tennyson, Tessler, Cole, Hiscock, Taylor & Wittmer 2018	Whenua Hou diving petrel / kuaka Whenua Hou*	Pelecanoides georgicus whenuahouensis Fischer et al., 2018	Whenua Hou diving petrel	Critically Endangered
<i>Philesturnus carunculatus</i> Gmelin, 1789	South Island saddleback / tieke	Philesturnus carunculatus (Gmelin, 1789)	South Island saddleback	Least Concern
Poliocephalus rufopectus (G.R. Gray, 1843)	New Zealand dabchick / weweia	Poliocephalus rufopectus (Gray, 1843)	New Zealand grebe	Least Concern
Porphyrio hochstetteri (A.B. Meyer, 1883)	South Island takahe / takahē	Porphyrio hochstetteri (A.B. Meyer, 1883)	South Island takahe	Endangered

Continued on next page

Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori Name in this Report	IUCN Name and Authority	IUCN Common Name	IUCN Status
Strigops habroptilus Gray, 1845	kākāpō	Strigops habroptilus Gray, 1845	kakapo	Critically Endangered
<i>Thinornis novaeseelandiae</i> Gmelin, 1789	shore plover / tuturuatu*	<i>Thinornis novaeseelandiae</i> (Gmelin, 1789)	shore plover	Extinct
GLOBALLY EXTINCT				
<i>Ixobrychus novaezelandiae</i> (Purdie, 1871)	New Zealand little bittern / kaoriki	Ixobrychus novaezelandiae (Potts, 1871)	New Zealand little bittern	Extinct
<i>Mergus australis</i> Hombron & Jacquinot, 1841	Auckland Island merganser / miuweka*	<i>Mergus australis</i> Hombron & Jacquinot, 1841	New Zealand merganser	Extinct
Sceloglaux albifacies albifacies G.R. Gray, 1844	South Island laughing owl / whēkau*	Ninox albifacies (Gray, 1844)	laughing owl	Extinct
Traversia lyalli Rothschild, 1894	Stephens Island wren	Traversia lyalli Rothschild, 1894	Stephens Island rockwren	Extinct
<i>Turnagra capensis capensis</i> Sparrman, 1787	South Island piopio / piopio	Turnagra capensis (Sparrman, 1787)	South Island piopio	Extinct
<i>Xenicus longipes longipes</i> (Gmelin, 1789)	South Island bush wren / mātuhituhi	Xenicus longipes (Gmelin, 1789)	bushwren	Extinct
REGIONALLY THREATENED				
REGIONALLY CRITICAL				
Anarhynchus frontalis Quoy & Gaimard, 1830	wrybill / ngutu pare	Anarhynchus frontalis Quoy & Gaimard, 1830	wrybill	Vulnerable
Botaurus poiciloptilus (Wagler, 1827)	Australasian bittern / matuku- hūrepo	Botaurus poiciloptilus (Wagler, 1827)	Australasian bittern	Vulnerable
Cyanoramphus novaezelandiae novaezelandiae Sparrman, 1787	red-crowned parakeet / kākāriki	Cyanoramphus novaezelandiae Sparrman, 1787	red-crowned parakeet	Least Concern
Cyanoramphus malherbi Souancé, 1857	orange-fronted parakeet / kākāriki karaka	Cyanoramphus malherbi Souancé, 1857	Malherbe's parakeet	Critically Endangered
Diomedea sanfordi Murphy, 1917	northern royal albatross / toroa	Diomedea sanfordi Murphy, 1917	northern royal albatross	Endangered

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Name differences and IUCN status continued

<i>Hymenolaimus malacorhynchos</i> (Gmelin, 1789)	whio / kōwhiowhio	Hymenolaimus malacorhynchos (Gmelin, 1789)	blue duck	Endangered
Name and Authority in this Report	Common Name and Māori Name in this Report	IUCN Name and Authority	IUCN Common Name	IUCN Status
<i>Megadyptes antipodes</i> (Hombron & Jacquinot, 1841)	yellow-eyed penguin / hoiho	Megadyptes antipodes (Hombron & Jacquinot, 1841)	yellow-eyed penguin	Endangered
Nestor notabilis Gould, 1856	kea	Nestor notabilis Gould, 1856	kea	Endangered
Porzana tabuensis tabuensis Gmelin, 1789	spotless crake / pūweto	Zapornia tabuensis (Gmelin, 1789)	spotless crake	Least Concern
Xenicus gilviventris rineyi Falla, 1953	southern rock wren / pīwauwau	Xenicus gilviventris Pelzeln, 1867	rock wren	Endangered
REGIONALLY ENDANGERED				
Chlidonias albostriatus (G.R. Gray, 1845)	black-fronted tern / tarapirohe	Chlidonias albostriatus (G.R. Gray, 1845)	black-fronted tern	Endangered
Eudynamys taitensis (Sparrman)	long-tailed cuckoo / koekoeā	Urodynamis taitensis (Sparrman, 1787)	long-tailed koel	Least Concern
Gallirallus australis hectori (Hutton, 1873)	buff weka / weka	Gallirallus australis Sparrman, 1786	weka	Vulnerable
Nestor meridionalis meridionalis (Gmelin, 1788)	South Island kaka / kāka	Nestor meridionalis (Gmelin, 1788)	New Zealand kaka	Vulnerable
Phalacrocorax carbo novaehollandiae Stephens, 1826	black shag / kōau	Phalacrocorax carbo (Linnaeus, 1758)	great cormorant	Least Concern
Porzana pusilla affinis (J.E. Gray, 1845)	marsh crake / kotoreke	Zapornia pusilla (Pallas, 1776)	Baillon's Crake	Least Concern
REGIONALLY VULNERABLE				
<i>Charadrius bicinctus bicinctus</i> Jardine and Selby, 1827	banded dotterel / pohowera	<i>Charadrius bicinctus</i> Jardine and Selby, 1827	double-bander plover	Near Threatened
Cyanoramphus auriceps Kuhl, 1820	yellow-crowned parakeet / kākāriki	Cyanoramphus auriceps Kuhl, 1820	yellow-fronted parakeet	Near Threatened
Falco novaeseelandiae novaeseelandiae (Gmelin 1788)	eastern falcon / kārearea	Falco novaeseelandiae Gmelin, 1788	New Zealand falcon	Least Concern
Haematopus finschi Martens, 1897	South Island pied oystercatcher / tōrea	Haematopus finschi Martens, 1897	South Island oystercatcher	Least Concern

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Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori	IUCN Name and Authority	IUCN Common Name	IUCN Status
	Name in this Report			
Haematopus unicolor J.R. Forster,	variable oystercatcher / torea	Haematopus unicolor J.R. Forster, 1844	variable oystercatcher	Least Concern
1844	pango			
Larus bulleri Hutton, 1871	black-billed gull / tarāpuka	Larus bulleri Hutton, 1871	black-billed gull	Least Concern
Leucocarbo chalconotus G.R. Gray,	Otago shag / matapo	Leucocarbo chalconotus (Gray, 1845)	Stewart Island shag	Vulnerable
1845				
<i>Limosa lapponica baueri</i> Naumann,	eastern bar-tailed godwit /	Limosa lapponica (Linnaeus, 1758)	bar-tailed godwit	Near Threatened
1836	kūaka			
Mohoua ochrocephala (Gmelin, 1789)	yellowhead / mohua	Mohoua ochrocephala (Gmelin, 1789)	yellowhead	Near Threatened
Ninox novaeseelandiae	morepork / ruru	Ninox novaeseelandiae Gmelin, 1788	morepork	Least Concern
<i>novaeseelandiae</i> Gmelin, 1788				
Pachyptila turtur (Kuhl, 1820)	fairy prion / tītī wainui	Pachyptila turtur (Kuhl, 1820)	fairy prion	Least Concern
Petroica australis australis Sparrman,	South Island robin / kakaruai	Petroica australis (Sparrman, 1788)	South Island robin	Least Concern
1788				
Phalacrocorax melanoleucos	little shag / kawaupaka	Microcarbo melanoleucos (Vieillot, 1817)	little pied cormorant	Least Concern
brevirostris Gould, 1837				
Podiceps cristatus australis Gould,	Australasian crested grebe /	Podiceps cristatus (Linnaeus, 1758)	great crested grebe	Least Concern
1844	pūteketeke			
Puffinus griseus (Gmelin, 1789)	sooty shearwater / tītī	Ardenna grisea (Gmelin, 1789)	sooty shearwater	Near Threatened
Sterna striata striata Gmelin, 1789	white-fronted tern / tara	Sterna striata Gmelin, 1789	white-fronted tern	Near Threatened
Stictocarbo punctatus (Sparrman,	spotted shag / kawau tikitiki	Phalacrocorax punctatus Sparrman,	spotted shag	Least Concern
1786)		1786		
REGIONALLY AT RISK				
REGIONALLY DECLINING				
Bowdleria punctata punctata Quoy &	South Island fernbird / mātātā	Poodytes punctatus (Quoy & Gaimard,	New Zealand Fernbird	Least Concern
Gaimard, 1830		1830)		
Mohoua novaeseelandiae (Gmelin,	brown creeper / pipipi	Mohoua novaeseelandiae (Gmelin,	pipipi	Least Concern
1789)		1789)		

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Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori Name in this Report	IUCN Name and Authority	IUCN Common Name	IUCN Status
Zosterops lateralis lateralis Latham, 1802	silvereye / tauhou	Zosterops lateralis (Latham, 1801)	silvereye	Least Concern
REGIONALLY RECOVERING				
<i>Larus novaehollandiae scopulinus</i> J. R. Forster, 1843	red-billed gull / tarāpunga	Larus novaehollandiae Stephens, 1826	silver gull	Least Concern
REGIONALLY NON-RESIDENT NATI	VE			
REGIONAL MIGRANT				
Ardea modesta J.E. Gray, 1831	white heron / kōtuku	Ardea alba Linnaeus, 1758	great white egret	Least Concern
Catharacta antarctica lonnbergi Mathews, 1912	subantarctic skua / hākoakoa	Catharacta antarctica (Lesson, 1831)	brown skua	Least Concern
Daption capense australe Mathews, 1913	Snares Cape petrel / karetai hurukoko*	Daption capense (Linnaeus, 1758)	cape petrel	Least Concern
Daption capense capense (Linnaeus, 1758)	Antarctic cape petrel / karetai hurukoko*	Daption capense (Linnaeus, 1758)	cape petrel	Least Concern
Diomedea antipodensis antipodensis Robertson & Warham, 1992	Antipodean wandering albatross / toroa	Diomedea exulans Linnaeus, 1758	wandering albatross	Vulnerable
Diomedea antipodensis gibsoni Robertson & Warham 1992	Gibson's wandering albatross / toroa	Diomedea exulans Linnaeus, 1758	wandering albatross	Vulnerable
Diomedea epomophora Lesson, 1825	southern royal albatross / toroa	Diomedea epomophora Lesson, 1825	southern royal albatross	Vulnerable
<i>Eudyptes pachyrhynchus</i> G.R. Gray, 1845	Fiordland crested penguin / tawaki	Eudyptes pachyrhynchus G.R. Gray, 1845	Fiordland penguin	Near Threatened
Fregetta tropica (Gould, 1844)	black-bellied storm petrel / takahikare-rangi	Fregetta tropica (Gould, 1844)	black-bellied storm petrel	Least Concern
Fulmarus glacialoides A. Smith, 1826	Antarctic fulmar	Fulmarus glacialoides (Smith, 1840)	southern fulmar	Least Concern
Garrodia nereis (Gould, 1841)	grey-backed storm petrel / reoreo*	Garrodia nereis (Gould, 1841)	grey-backed storm petrel	Least Concern
Hydroprogne caspia (Pallas, 1770)	Caspian tern / taranui	Hydroprogne caspia (Pallas, 1770)	Caspian tern	Least Concern

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Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori	IUCN Name and Authority	IUCN Common Name	IUCN Status	
	Name in this Report				
Macronectes giganteus (Gmelin,	southern giant petrel /	Macronectes giganteus (Gmelin, 1789)	southern giant petrel	Least Concern	
1789)	pāngurunguru				
Macronectes halli Mathews, 1912	northern giant petrel /	Macronectes halli Mathews, 1912	northern giant petrel	Least Concern	
	pāngurunguru				
Morus serrator G.R. Gray, 1843	Australasian gannet / tākapu	Morus serrator G.R. Gray, 1843	Australasian gannet	Least Concern	
<i>Oceanites oceanicus exasperatus</i> Mathews, 1912	Wilson's storm petrel	Oceanites oceanicus (Kuhl, 1820)	Wilson's storm petrel	Least Concern	
Pachyptila vittata Forster,G, 1777	broad-billed prion / pararā	Pachyptila vittata (Forster, 1777)	broad-billed prion	Least Concern	
Pelecanoides urinatrix chathamensis Murphy and Harper, 1916	southern diving petrel / kuaka	Pelecanoides urinatrix (Gmelin, 1789)	common diving petrel	Least Concern	
<i>Phalacrocorax varius varius</i> Gmelin, 1789	pied shag / kāruhiruhi	Phalacrocorax varius Gmelin, 1789	great pied cormorant	Least Concern	
Procellaria aequinoctialis Linnaeus,	white-chinned petrel / karetai	Procellaria aequinoctialis Linnaeus, 1758	white-chinned petrel	Vulnerable	
1758	kauae mā				
Procellaria cinerea Gmelin, 1789	grey petrel / kuia	Procellaria cinerea Gmelin, 1789	grey petrel	Near Threatened	
Procellaria westlandica Falla, 1946	Westland petrel / tāiko	Procellaria westlandica Falla, 1946	Westland petrel	Endangered	
Pterodroma cookii (G.R. Gray, 1843)	northern Cook's petrel / tītī	Pterodroma cookii (Gray, 1843)	Cook's petrel	Vulnerable	
Pterodroma gouldi (Hutton, 1869)	grey-faced petrel / ōi	Pterodroma gouldi (Hutton, 1869)	grey-faced petrel	Least Concern	
Pterodroma inexpectata (J.R. Forster, 1844)	mottled petrel / korure	Pterodroma inexpectata (Forster, 1844)	mottled petrel	Near Threatened	
Puffinus bulleri Salvin, 1888	Buller's shearwater / rako	Ardenna bulleri (Salvin, 1888)	Buller's shearwater	Vulnerable	
Puffinus gavia J.R. Forster, 1844	fluttering shearwater / pakahā	Puffinus gavia (Forster, 1844)	fluttering shearwater	Least Concern	
Puffinus huttoni Mathews, 1912	Hutton's shearwater / Kaikōura tītī	Puffinus huttoni Mathews, 1912	Hutton's shearwater	Least Concern	
Puffinus tenuirostris Temminck, 1836	short-tailed shearwater	Ardenna tenuirostris (Temminck, 1835)	short-tailed shearwater	Least Concern	
Stercorarius parasiticus (Linnaeus, 1758)	Arctic skua	Stercorarius parasiticus (Linnaeus, 1758)	Arctic jaeger	Least Concern	

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Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori	IUCN Name and Authority	IUCN Common Name	IUCN Status
	Name in this Report			
Thalassarche bulleri bulleri Rothschild, 1888	southern Buller's mollymawk / toroa	Thalassarche bulleri (Rothschild, 1893)	Buller's albatross	Near Threatened
<i>Thalassarche cauta steadi</i> Falla, 1933	New Zealand white-capped mollymawk / toroa	Thalassarche steadi Falla, 1933	white-capped albatross	Near Threateneo
<i>Thalassarche impavida</i> Mathews, 1912	Campbell Island mollymawk / toroa	Thalassarche impavida Mathews, 1912	Campbell albatross	Vulnerable
<i>Thalassarche melanophris</i> (Temminck, 1828)	black-browed mollymawk / toroa	Thalassarche melanophris (Temminck, 1828)	black-browed albatross	Least Concern
Thalassarche salvini Rothschild, 1878	Salvin's mollymawk / toroa	Thalassarche salvini (Rothschild, 1893)	Salvin's albatross	Vulnerable
REGIONAL VAGRANT				
Anas castanea (Eyton, 1838)	chestnut teal	Anas castanea (Eyton, 1838)	chestnut teal	Least Concern
Anas clypeata Linnaeus, 1758	northern shoveler	Spatula clypeata (Linnaeus, 1758)	northern shoveler	Least Concern
Aptenodytes patagonicus J.F. Miller, 1778	king penguin / tokoraki	Aptenodytes patagonicus Miller, 1778	king penguin	Least Concern
Ardea ibis coromanda Boddaert, 1783	eastern cattle egret	Bubulcus ibis (Linnaeus, 1758)	catte egret	Least Concern
Ardea intermedia plumifera (Gould, 1848)	plumed intermediate egret	Ardea plumifera (Gould, 1848)	plumed egret	Least Concern
Ardea pacifica Latham, 1802	white-necked heron	Ardea pacifica Latham, 1801	white-necked heron	Least Concern
Arenaria interpres (Linnaeus, 1758)	ruddy turnstone	Arenaria interpres (Linnaeus, 1758)	ruddy turnstone	Least Concern
Artamus personatus (Gould, 1841)	masked woodswallow	Artamus personatus Gould, 1841	masked woodswallow	Least Concern
Artamus superciliosus (Gould, 1837)	white-browed woodswallow	Artamus superciliosus (Gould, 1837)	white-browed woodswallow	Least Concern
<i>Aythya australis</i> (Eyton, 1838)	Australian white-eyed duck / karakahia	Aythya australis (Eyton, 1838)	hardhead	Least Concern
Cacomantis flabelliformis flabelliformis Latham, 1802	fan-tailed cuckoo	Cacomantis flabelliformis Latham, 1801	fan-tailed cuckoo	Least Concern
Calidris acuminata (Horsfield, 1821)	sharp-tailed sandpiper / kohutapu	Calidris acuminata (Horsfield, 1821)	sharp-tailed sandpiper	Vulnerable

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Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori Name in this Report	IUCN Name and Authority	IUCN Common Name	IUCN Status
<i>Calidris canutus rogersi</i> Mathews, 1913	lesser knot / huahou	Calidris canutus (Linnaeus, 1758)	red knot	Near Threatened
<i>Calidris ferruginea</i> (Pontoppidan, 1763)	curlew sandpiper	Calidris ferruginea (Pontoppidan, 1763)	curlew sandpiper	Near Threatened
Calidris melanotos (Vieillot, 1819)	pectoral sandpiper	Calidris melanotos (Vieillot, 1819)	pectoral sandpiper	Least Concern
Calidris ruficollis (Pallas, 1776)	red-necked stint	Calidris ruficollis (Pallas, 1776)	red-necked stint	Near Threatened
Catharacta maccormicki (Saunders, 1893)	Antarctic skua	Catharacta maccormicki (Saunders, 1893)	south polar skua	Least Concern
Charadrius leschenaultii leschenaultii Lesson, 1826	greater sand plover	Charadrius leschenaultii Lesson, 1826	greater sandplover	Least Concern
Charadrius mongolus Pallas, 1776	Mongolian dotterel	Charadrius mongolus Pallas, 1776	Siberean sandplover	Endangered
Charadrius obscurus obscurus Gmelin, 1789	southern New Zealand dotterel / tūturiwhatu	Charadrius obscurus Gmelin, 1789	southern red-breasted plover	Critically Endangered
Charadrius ruficapillus Temminck, 1821	red-capped dotterel	Charadrius ruficapillus Temminck, 1822	red-capped plover	Least Concern
Chenonetta jubata Latham, 1802	Australian wood duck	Chenonetta jubata (Latham, 1801)	maned duck	Least Concern
<i>Chlidonias hybridus javanicus</i> Horsfield, 1821	whiskered tern	Chlidonias hybridus (Pallas, 1811)	whiskered tern	Least Concern
Chlidonias leucopterus (Temminck, 1815)	white-winged black tern	Chlidonias leucopterus (Temminck, 1815)	white-winged tern	Least Concern
Coprotheres pomarinus (Temminck, 1815)	pomarine skua	Coprotheres pomarinus (Temminck, 1815)	pomarine jaeger	Least Concern
<i>Coracina novaehollandiae</i> (Gmelin, 1789)	black-faced cuckoo-shrike	Coracina novaehollandiae (Gmelin, 1789)	black-faced cuckooshrike	Least Concern
Cuculus optatus Gould, 1845	oriental cuckoo	Cuculus optatus Gould, 1845	oriental cuckoo	Least Concern
Cuculus pallidus (Latham, 1801)	pallid cuckoo	Cuculus pallidus (Latham, 1801)	pallid cuckoo	Least Concern
Dacelo novaeguineae Hermann, 1783	laughing kookaburra	Dacelo novaeguineae (Hermann, 1783)	laughing kookaburra	Least Concern
Dendrocygna eytoni Eyton, 1838	plumed whistling duck	Dendrocygna eytoni (Eyton, 1838)	plumed whistling duck	Least Concern
Diomedea exulans Linnaeus, 1758	wandering albatross / toroa	Diomedea exulans Linnaeus, 1758	wandering albatross	Vulnerable

Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori	IUCN Name and Authority	IUCN Common Name	IUCN Status	
	Name in this Report				
<i>Egretta garzetta immaculata</i> Linnaeus, 1766	little egret	<i>Egretta garzetta</i> (Linnaeus, 1766)	little egret	Least Concern	
Egretta sacra sacra Gmelin, 1789	reef heron / matuku moana	Egretta sacra (Gmelin, 1789)	pacific reef-egret	Least Concern	
Elseyornis melanops (Vieillot, 1818)	black-fronted dotterel	Elseyornis melanops (Vieillot, 1818)	black-fronted dotterel	Least Concern	
<i>Eudyptes chrysocome</i> J.R. Forster, 1781	western rockhopper penguin / tawaki piki toka	Eudyptes chrysocome (Forster, 1781)	southern rockhopper penguin	Vulnerable	
Eudyptes filholi Hutton, 1879	eastern rockhopper penguin / tawaki piki toka	Eudyptes chrysocome (Forster, 1781)	southern rockhopper penguin	Vulnerable	
Eudyptes robustus Oliver, 1953	Snares crested penguin / pokotiwha	Eudyptes robustus Oliver, 1953	Snares crested penguin	Vulnerable	
Eudyptes schlegeli Finsch, 1876	royal penguin	Eudyptes schlegeli Finsch, 1876	royal penguin	Least Concern	
Eudyptes sclateri Buller, 1888	erect-crested penguin / tawaki nana hī	Eudyptes sclateri Buller, 1888	erect-crested penguin	Endangered	
<i>Eurystomus orientalis pacificus</i> (Latham, 1802)	dollarbird	Eurystomus orientalis (Latham, 1766)	oriental dollarbird	Least Concern	
Falco cenchroides cenchroides Vigors & Horsfield, 1827	Nankeen kestrel	Falco cenchroides Vigors & Horsfield, 1827	Nankeen kestrel	Least Concern	
Fregata ariel ariel G.R. Gray, 1845	lesser frigatebird	Fregata ariel (Gray, 1845)	lesser frigatebird	Least Concern	
Gallinago hardwickii J.E Gray, 1831	Japanese snipe	Gallinago hardwickii (Gray, 1831)	Latham's snipe	Near Threatened	
Gallinula chloropus Linnaeus, 1758	common moorhen	Gallinula chloropus (Linnaeus, 1758)	common moorhen	Least Concern	
Gallinula tenebrosa Gould, 1846	dusky moorhen	Gallinula tenebrosa Gould, 1846	dusky moorhen	Least Concern	
Halobaena caerulea (Gmelin, 1789)	blue petrel	Halobaena caerulea (Gmelin, 1789)	blue petrel	Least Concern	
<i>Himantopus novaezelandiae</i> Gould, 1841	black stilt / kakī	Himantopus novaezelandiae Gould, 1841	black stilt	Critically Endangered	
<i>Hirundapus caudacutus caudacutus</i> Latham, 1802	white-throated needletail	Hirundapus caudacutus (Latham, 1802)	white-throated needletail	Least Concern	
Lalage tricolor Swainson, 1825	white-winged triller	Lalage tricolor (Swainson, 1825)	white-winged triller	Least Concern	
Larus pipixcan Wagler, 1831	Franklin's gull	Larus pipixcan Wagler, 1831	Franklin's gull	Least Concern	

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Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori	IUCN Name and Authority	IUCN Common Name	IUCN Status	
	Name in this Report				
<i>Limosa haemastica</i> (Linnaeus, 1758)	American black-tailed (Hudsonian) godwit	Limosa haemastica (Linnaeus, 1758)	Hudsonian godwit	Least Concern	
Lugensa brevirostris (Lesson, 1833)	Kerguelen petrel	Lugensa brevirostris (Lesson, 1833)	Kerguelen petrel	Least Concern	
Milvus migrans (Boddaert, 1783)	black kite	Milvus migrans (Boddaert, 1783)	black kite	Least Concern	
<i>Numenius madagascariensis</i> Linnaeus, 1766	eastern curlew	Numenius madagascariensis (Linnaeus, 1766)	far eastern curlew	Endangered	
Numenius phaeopus variegatus (Scopoli, 1786)	Asiatic whimbrel	Numenius phaeopus (Linnaeus, 1758)	whimbrel	Least Concern	
<i>Nycticorax caledonicus australasiae</i> Gmelin, 1789	Nankeen night heron	Nycticorax caledonicus (Gmelin, 1789)	Rufous night-heron	Least Concern	
Oceanodroma leucorhoa leucorhoa Vieillot, 1818	Leach's storm petrel	Oceanodroma leucorhoa (Vieillot, 1818)	Leach's storm petrel	Vulnerable	
Pachyptila belcheri (Mathews, 1912)	thin-billed prion	Pachyptila belcheri (Mathews, 1912)	slender-billed prion	Least Concern	
Pachyptila desolata Gmelin, 1789	Antarctic prion	Pachyptila desolata (Gmelin, 1789)	Antarctic prion	Least Concern	
Pachyptila salvini Mathews, 1912	Salvin's prion	Pachyptila salvini Mathews, 1912	Salvin's prion	Least Concern	
Petrochelidon ariel (Gould, 1843)	fairy martin	Petrochelidon ariel (Gould, 1843)	fairy martin	Least Concern	
Petrochelidon nigricans (Vieillot, 1817)	tree martin	Petrochelidon nigricans (Vieillot, 1817)	tree martin	Least Concern	
Phalacrocorax sulcirostris (Brandt, 1837)	little black shag	Phalacrocorax sulcirostris (Brandt, 1837)	little black cormorant	Least Concern	
<i>Phalaropus fulicarius</i> (Linnaeus, 1758)	grey phalarope	Phalaropus fulicarius (Linnaeus, 1758)	red phalarope	Least Concern	
Phoebetria palpebrata J.R. Forster, 1785	light-mantled sooty albatross / toroa pango	Phoebetria palpebrata (Forster, 1785)	light-mantled albatross	Near Threatened	
Plegadis falcinellus (Linnaeus, 1766)	glossy ibis	Plegadis falcinellus (Linnaeus, 1766)	glossy ibis	Least Concern	
Pluvialis fulva (Gmelin, 1789)	Pacific golden plover / kuriri*	Pluvialis fulva (Gmelin, 1789)	Pacific golden plover	Least Concern	
Pluvialis squatarola (Linnaeus, 1758)	grey plover	Pluvialis squatarola (Linnaeus, 1758)	grey plover	Least Concern	
Pterodroma externa (Salvin, 1875)	Juan Fernandez petrel	Pterodroma externa (Salvin, 1875)	Juan Fernandez petrel	Vulnerable	

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Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori	IUCN Name and Authority	IUCN Common Name	IUCN Status
	Name in this Report			
Pterodroma lessonii (Garnot, 1826)	white-headed petrel	Pterodroma lessonii (Garnot, 1826)	white-headed petrel	Least Concern
Pterodroma leucoptera caledonica Imber & Jenkins, 1981	New Caledonian petrel	Pterodroma leucoptera (Gould, 1844)	white-winged petrel	Vulnerable
Pterodroma mollis (Gould, 1844)	soft-plumaged petrel	Pterodroma mollis (Gould, 1844)	soft-plumaged petrel	Least Concern
Puffinus carneipes Gould, 1844	flesh-footed shearwater / toanui	Ardenna carneipes (Gould, 1844)	flesh-footed shearwater	Near Threatened
<i>Puffinus elegans</i> Giglioli & Salvadori, 1869	Subantarctic little shearwater	<i>Puffinus elegans</i> Giglioli & Salvadori, 1869	Subantarctic little shearwater	Least Concern
Puffinus gravis O'Reilly, 1818	great shearwater	Ardenna gravis (O'Reilly, 1818)	great shearwater	Least Concern
<i>Pygoscelis adeliae</i> (Hombron & Jacquinot, 1841)	Adélie penguin	<i>Pygoscelis adeliae</i> (Hombron & Jacquinot, 1841)	Adélie penguin	Least Concern
<i>Pygoscelis antarcticus</i> J.R. Forster, 1781	chinstrap penguin	Pygoscelis antarcticus (Forster, 1781)	chinstrap penguin	Least Concern
Pygoscelis papua J.R. Forster, 1781	gentoo penguin	Pygoscelis papua (Forster, 1781)	gentoo penguin	Least Concern
Recurvirostra novaehollandiae Vieillot, 1816	red-necked avocet / piwari	<i>Recurvirostra novaehollandiae</i> Vieillot, 1816	red-necked avocet	Least Concern
Stercorarius longicaudus Vieillot, 1819	long-tailed skua	Stercorarius longicaudus Vieillot, 1819	long-tailed jaeger	Least Concern
Sterna hirundo longipennis Nordmann, 1835	common tern	Sterna hirundo Linnaeus, 1758	common tern	Least Concern
Sterna paradisaea Pontoppidan, 1763	Arctic tern	Sterna paradisaea Pontoppidan, 1763	Arctic tern	Least Concern
Sterna vittata bethunei Travers, 1896	New Zealand Antarctic tern	Sterna vittata Gmelin, 1789	Antarctic tern	Least Concern
Sternula albifrons sinensis Pallas, 1764	little tern	Sternula albifrons (Pallas, 1764)	little tern	Least Concern
Tachybaptus novaehollandiae novaehollandiae Stephens, 1826	Australasian little grebe / tokitokipio	Tachybaptus novaehollandiae (Stephens, 1826)	Australasian grebe	Least Concern
Tadorna tadornoides Jardine & Selby, 1828	Chestnut-breasted shelduck	Tadorna tadornoides Jardine & Selby, 1828	Australian shelduck	Least Concern

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Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori	IUCN Name and Authority	IUCN Common Name	IUCN Status
	Name in this Report			
<i>Thalassarche chrysostoma</i> J.R. Forster, 1785	grey-headed mollymawk / toroa	Thalassarche chrysostoma (Forster, 1785)	grey-headed albatross	Endangered
Thalassarche eremita Murphy, 1930	Chatham Island mollymawk / toroa	Thalassarche eremita Murphy, 1930	Chatham albatross	Vulnerable
Thalassoica antarctica (Gmelin, 1789)	Antarctic petrel	Thalassoica antarctica (Gmelin, 1789)	Antarctic petrel	Least Concern
Threskiornis molucca strictipennis (Gould, 1838)	Australian white ibis	Threskiornis molucca (Cuvier, 1829)	Australian ibis	Least Concern
<i>Threskiornis spinicollis</i> Jameson, 1835	straw-necked ibis	Threskiornis spinicollis (Jameson, 1835)	straw-necked ibis	Least Concern
Tringa brevipes (Vieillot, 1816)	grey-tailed tattler	Tringa brevipes (Vieillot, 1816)	grey-tailed tattler	Near Threatened
Tringa cinerea Guldenstaedt, 1774	Terek sandpiper	Xenus cinereus (Güldenstädt, 1775)	Terek sandpiper	Least Concern
Tringa hypoleucos Linnaeus, 1758	common sandpiper	Tringa hypoleucos Linnaeus, 1758	common sandpiper	Least Concern
Tringa incana (Gmelin, 1789)	wandering tattler	Tringa incana (Gmelin, 1789)	wandering tattler	Least Concern
Tringa nebularia (Gunnerus, 1767)	greenshank	Tringa nebularia (Gunnerus, 1767)	common greenshank	Least Concern
Tringa stagnatilis (Bechstein, 1803)	marsh sandpiper	Tringa stagnatilis (Bechstein, 1803)	marsh sandpiper	Least Concern
REGIONALLY NOT THREATENED				
Anas gracilis Buller, 1869	grey teal / tētē-moroiti	Anas gracilis Buller, 1869	grey teal	Least Concern
Anthornis melanura melanura Sparrman, 1786	bellbird / kōparapara	Anthornis melanura (Sparrman, 1786)	New Zealand bellbird	Least Concern
Anthus novaeseelandiae novaeseelandiae Gmelin, 1789	New Zealand pipit / pīhoihoi	Anthus novaeseelandiae Gmelin, 1789	Australasian Pipit	Least Concern
<i>Aythya novaeseelandiae</i> (Gmelin, 1789)	New Zealand scaup / pāpango	Aythya novaeseelandiae (Gmelin, 1789)	New Zealand scaup	Least Concern
<i>Chrysococcyx lucidus lucidus</i> Gmelin, 1788	shining cuckoo / pīpīwharauroa	Chrysococcyx lucidus (Gmelin, 1788)	shining bronze-cuckoo	Least Concern
Circus approximans Peale, 1848	Australasian harrier / kāhu	Circus approximans Peale, 1848	swamp harrier	Least Concern
Cygnus atratus (Latham, 1790)	black swan / kakīānau	Cygnus atratus (Latham, 1790)	black swan	Least Concern

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Name differences and IUCN status continued

Name and Authority in this Report	Common Name and Māori	IUCN Name and Authority	IUCN Common Name	IUCN Status
	Name in this Report	-		
<i>Egretta novaehollandiae</i> (Latham, 1790)	white-faced heron / kakīānau	Egretta novaehollandiae (Latham, 1790)	white-faced heron	Least Concern
Eudyptula novaehollandiae (Stephens, 1826)	Australian little penguin / kororā*	Eudyptula minor J.R. Forster, 1781	little penguin	Least Concern
<i>Gerygone igata</i> (Quoy & Gaimard, 1830)	grey warbler / riroriro	Gerygone igata (Quoy & Gaimard, 1830)	grey gerygone	Least Concern
<i>Hemiphaga novaeseelandiae</i> Gmelin, 1789	kererū / New Zealand pigeon	<i>Hemiphaga novaeseelandiae</i> (Gmelin, 1789)	New Zealand pigeon	Least Concern
Himantopus himantopus leucocephalus Gould, 1837	pied stilt / poaka	<i>Himantopus himantopus</i> (Linnaeus, 1758)	black-winged stilt	Least Concern
<i>Hirundo neoxena neoxena</i> Gould, 1842	welcome swallow / warou	Hirundo neoxena Gould, 1842	welcome swallow	Least Concern
<i>Larus dominicanus dominicanus</i> Lichtenstein, 1823	southern black-backed gull / karoro	Larus dominicanus Lichtenstein, 1823	kelp gull	Least Concern
<i>Petroica macrocephala macrocephala</i> Gmelin, 1789	South Island tomtit / ngirungiru	Petroica macrocephala (Gmelin, 1789)	New Zealand tomtit	Least Concern
Porphyrio melanotus melanotus Temminck, 1820	pukeko	Porphyrio porphyrio (Linnaeus, 1758)	purple swamphen	Least Concern
Prosthemadera novaeseelandiae novaeseelandiae (Gmelin, 1788)	tūī	Prosthemadera novaeseelandiae (Gmelin, 1788)	tui	Least Concern
Rhipidura fuliginosa fuliginosa (Sparrman, 1787)	South Island fantail / pīwakawaka	Rhipidura fuliginosa (Sparrman, 1787)	New Zealand fantail	Least Concern
Spatula rhynchotis (Latham, 1802)	Australasian shoveler / kuruwhengi	Spatula rhynchotis (Latham, 1801)	Australasian Shoveler	Least Concern
Tadorna variegata (Gmelin, 1789)	paradise shelduck / pūtakitaki	Tadorna variegata (Gmelin, 1789)	paradise shelduck	Least Concern
Todiramphus sanctus vagans (Lesson, 1828)	New Zealand kingfisher / kōtare	<i>Todiramphus sanctus</i> (Vigors & Horsfeld, 1827)	sacred kingfisher	Least Concern
Vanellus miles novaehollandiae Stephens, 1819	spur-winged plover	Vanellus spinosus (Linnaeus, 1758)	spur-winged lapwing	Least Concern

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Appendix 7: Bird species that are Regional Endemics or have National Strongholds in the Otago Region

Name and Authority	Common Name	Māori Name from National	Regional Endemic / National Stronghold
		Conservation Status	
Eudyptula novaehollandiae (Stephens, 1826)	Australian little penguin	kororā*	National Stronghold
Falco novaeseelandiae novaeseelandiae (Gmelin 1788)	eastern falcon	kārearea	National Stronghold
Haematopus finschi Martens, 1897	South Island pied oystercatcher	tōrea	National Stronghold
Larus novaehollandiae scopulinus J. R. Forster, 1843	red-billed gull	tarāpunga	National Stronghold
Leucocarbo chalconotus G.R. Gray, 1845	Otago shag	matapo	Regional Endemic / National Stronghold
Mohoua ochrocephala (Gmelin, 1789)	mohua / yellowhead	mohua	National Stronghold
Podiceps cristatus australis Gould, 1844	Australasian crested grebe	pūteketeke	National Stronghold
Xenicus gilviventris rineyi Falla, 1953	southern rock wren	pīwauwau*	National Stronghold

*Most common Maori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Appendix 8: Bird species with type localities in the Otago Region

Name and Authority	Common Name	Māori Name from National	Locations		
		Conservation Status			
EXTANT					
Eudyptes pachyrhynchus G.R. Gray, 1845	Fiordland crested penguin	tawaki	Waikouaiti		
Leucocarbo chalconotus G.R. Gray, 1845	Otago shag	matapo	Ōamaru		
Podiceps cristatus australis Gould, 1844	Australasian crested grebe	pūteketeke	Lake Wakatipu / Whakatipu Waimāori		
Pachyptila turtur (Kuhl, 1820)	fairy prion	tītī wainui	Accession number: LB11856		
EXTINCT					
Aptornis defossor Owen, 1871	South Island adzebill	ngutu hahau*	Ōamaru		
Biziura delautouri Forbes, 1892	New Zealand musk duck		Enfield Swamp		
Chenonetta finschi (Van Beneden, 1875)	Finsch's duck	manutahora*	Earnscleugh Cave		
Dinornis robustus Owen, 1846	South Island giant moa	moa nunui	Waikouaiti		
Emeus crassus Owen, 1846	eastern moa	moa mōmona	Waikouaiti		
Ixobrychus novaezelandiae (Purdie, 1871)	New Zealand little bittern	kaoriki	Lake Wakatipu / Whakatipu Waimāori		
Megalapteryx didinus Owen 1883	upland moa	moa pukepuke	Tāhuna / Queenstown		
Pachyornis elephantopus (Owen, 1856)	heavy-footed moa	moa waewae taumaha	Awamoa		
Sceloglaux albifacies albifacies G.R. Gray, 1844	South Island laughing owl	whēkau*	Waikouaiti		

*Most common Maori name used in the Notornis scientific journal as cited in Checklist Committee (2022). Alternatives name provided in Appendix 3 of the Checklist.

Appendix 9: Introduced, Not Established bird species by Territorial Authority and Coastal Marine Area in the Otago Region

Name and Authority	Common Name and Māori Name from the National Assessment	Central Otago District Council	Clutha District Council	Dunedin City Council	Queenstown Lakes District Council	Waitaki District Council (Otago part only)	Coastal Marine Area
Cairina moschata (Linnaeus, 1758)	muscovy duck	Р	Р	Р	Р	Р	Р
Cereopsis novaehollandiae Latham, 1801	Cape Barren goose	Р			SB		
Chrysolophus pictus (Linnaeus, 1758)	golden pheasant					Р	
Cygnus olor (Gmelin, 1789)	mute swan / wāna		Р	Р			
Eolophus roseicapillus (Vieillot, 1817)	galah		Р				
Gallus gallus gallus (Linnaeus, 1758)	feral chicken		Р	В			
Numida meleagris Linnaeus, 1758	helmeted guineafowl				SP	SP	
Nymphicus hollandicus (Kerr, 1792)	cockatiel			Р			
Pavo cristatus Linnaeus, 1758	peafowl / pīkao	SB	Р	Р	Р	Р	
Streptopelia risoria Linnaeus, 1758	Barbary dove			Р			

Appendix 10: Introduced, Not Established bird species by Freshwater Management Unit or rohe in the Otago Region

Name	Common Name and Māori Name from the	Taieri FMU	North Otago	Dunedin & Coast	Catlins FMU	Clutha Mata-au FMU				
	National Assessment		FMU	FMU		Manuherekia Rohe	Roxburgh Rohe	Upper Lakes Rohe	Dunstan Rohe	Lower Clutha Rohe
Cairina moschata (Linnaeus, 1758)	muscovy duck	SB	SB	В	Р	Р	Р	Р	SB	Р
Cereopsis novaehollandiae Latham, 1801	Cape Barren goose				Р			Р	Р	
Cygnus olor (Gmelin, 1789)	mute swan / wāna	Р	Р	Р						Р
Eolophus roseicapillus (Vieillot, 1817)	galah				Р					
<i>Gallus gallus gallus</i> (Linnaeus, 1758)	feral chicken			SB	SB					
Numida meleagris Linnaeus, 1758	helmeted guineafowl		SP					SP		
Nymphicus hollandicus (Kerr, 1792)	cockatiel			Р						
Pavo cristatus Linnaeus, 1758	peafowl / pīkao	Р	Р	SB	SB	SB	Р	SB	SB	Р
<i>Streptopelia risoria</i> Linnaeus, 1758	Barbary dove			Р						

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