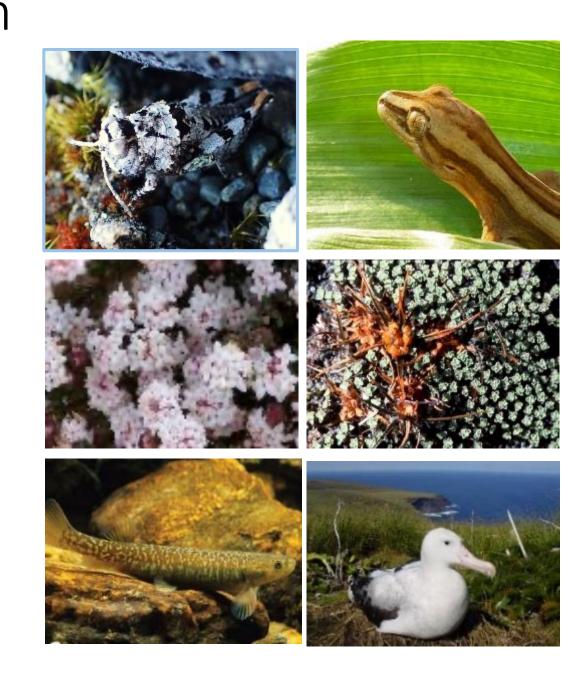
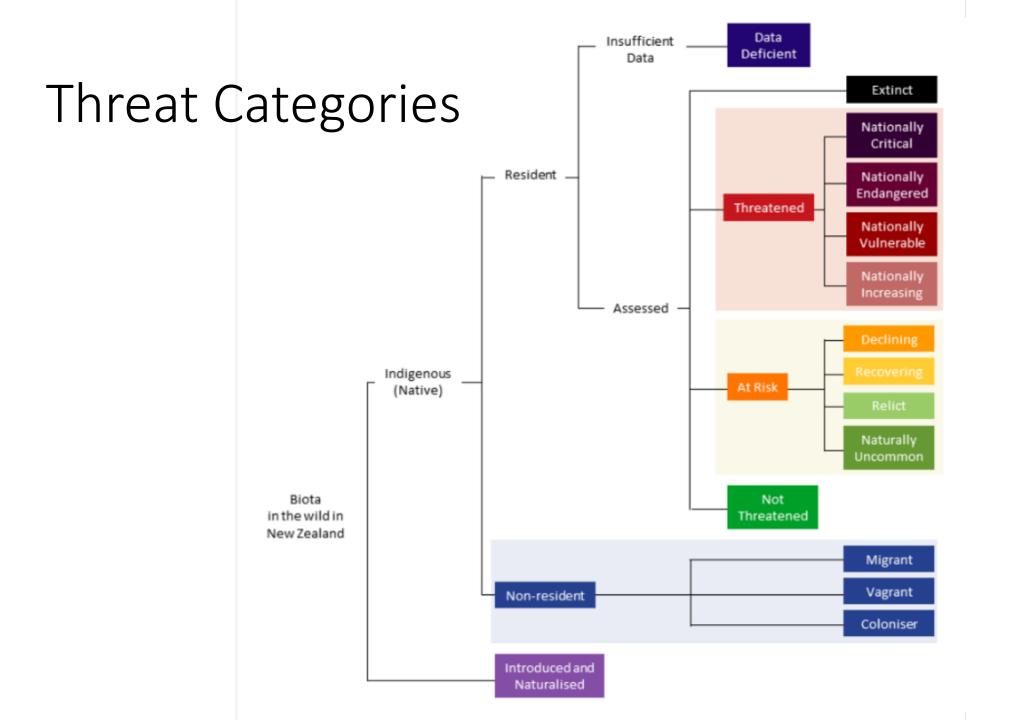


Threat Classification System (NZTCS)

- Assesses conservation status of groups of plants, animals and fungi
- Administered by the Department of Conservation
- Rules-based approach to assess the risk of extinction based on estimates of population size and trend projected over three generations
- Assessments every 5 years
- Public submissions (3 months)

https://nztcs.org.nz/

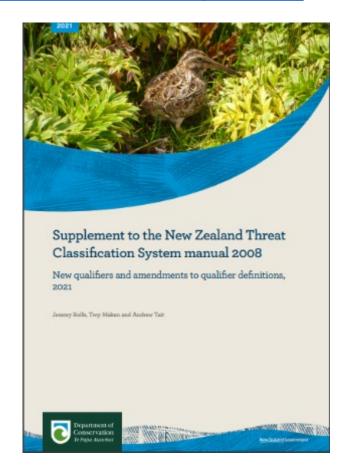




NZTCS guidelines

• https://www.doc.govt.nz/about-us/science-publications/conservation-publications/nz-threat-classification-system/





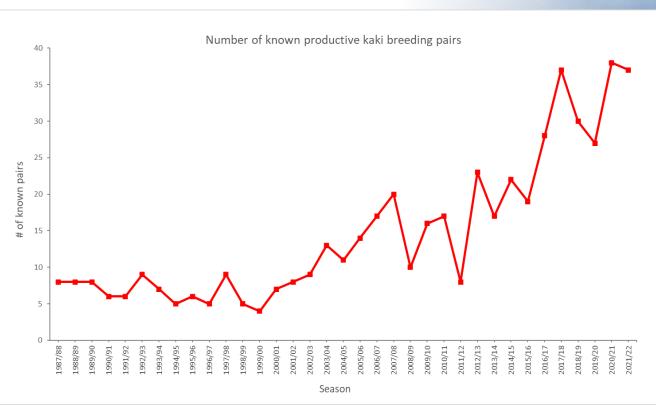


Critical information: predicted rates of decline (next 3 generations) & population size

		TOTAL NUMBER OF MATURE INDIVIDUALS				
TOTAL POPULATION TREN	< 250 D*	250- 1000	1000- 5000	5000- 20 000	20 000- > 100 000 100 000	
>10% increase		NV/ NU	NU/ Rec	NU/ Rec	NT/ NU _{RR} / Rel	
Stable (± 10%)		NE/ NU	NV/ NU	NU/ Rel		
10-30% decline		NE			n n	
30-50% decline				NV	Dec	
50-70% decline	NC		NE			
>70% decline						



Example: kakī/black stilt





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Qualifiers

NZTCS

Species Details

Taxonomy

Hierarchy Himantopus / Recurvirostridae / Charadriiformes /

Aves / Chordata / Animalia

Species Type Bird

Formal Name

Name and Authority Himantopus novaezelandiae Gould, 1841

Scientific Name Himantopus novaezelandiae

Genus Himantopus

Species Epithet novaezelandiae

Trinomial Type

Trinomial Epithet

Naming Authority Gould, 1841

Taxonomic Status Taxonomically Determinate

Related Assessments

Report Name	Conservation Status	Year Published	Report Status
Birds 2002 from Hitchmough 2002) Himantopus novaezelandiae Gould, 1841	Nationally Critical	2002	PUBLISHED ARCHIVED
Birds 2005 (Hitchmough et al. 2007) Himantopus novaezelandiae Gould, 1841	Nationally Critical	2007	ARCHIVED ARCHIVED
Birds 2008: (Miskelly et al. 2008) Himantopus novaezelandiae Gould, 1841	Nationally Critical	2008	PUBLISHED ARCHIVED
Birds 2012: (Robertson et al. 2013) Himantopus novaezelandiae Gould, 1841	Nationally Critical	2013	PUBLISHED ARCHIVED
Birds 2016 (Robertson et al. 2017)	Nationally Critical	2017	PUBLISHED

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Selected Assessment 2021 **Species Name** Himantopus novaezelandiae Gould, 1841 NZOR **Edit Status** PUBLISHED Report Birds 2021 (Robertson et al. 2021) **Population State** unnatural **Population Trend** STABLE +/-10% over 15 years (Medium confidence) **Population Size** MATIND < 250 (High confidence) Conservation Nationally Critical **Umbrella Category** Status Threatened Criteria A(1) **Status Change** No change

Assessment History 2021 2016 2012 2008 2005 2002 Species Name Himantopus novaezelandiae Gould, 1841 NZOR **Edit Status** PUBLISHED Report Birds 2021 (Robertson et al. 2021) **Population State** unnatural **Population Trend** STABLE +/-10% **Population Size** MATIND < 250 (High confidence) Conservation Nationally Critical **Umbrella Category** Status Threatened Criteria A(1) **Status Change** No change

Changes: Nationally Critical species

Common name	Threat Status 2016	Threat Status 2021	
Kōtuku/white heron	Nationally Critical	Nationally Critical	Same
Matuku/Australasian bittern	Nationally Critical	Nationally Critical	Same
Pārera/grey duck	Nationally Critical	Nationally Vulnerable	Better
Tarāpuka/black-billed gull	Nationally Critical	Declining	Better
Kakī/black stilt	Nationally Critical	Nationally Critical	Same

Change in status: black-billed gull

At Risk Declining

Status Change Change Reason Qualifiers

Notes

Better

More knowledge

Climate Impact Conservation Research needed

Recruitment Failure

New aerial surveys in 2014/15 to 2016/17 (Mischler 2018) found more black-billed gulls than expected (60,256 nests in 2016/17). Historical data hight have overestimated numbers of breeding birds and magnitude of reported declines. Mischler (2018) suggests that population might be stable but confidence is low and recommends a census in 10 years to confirm this trend.

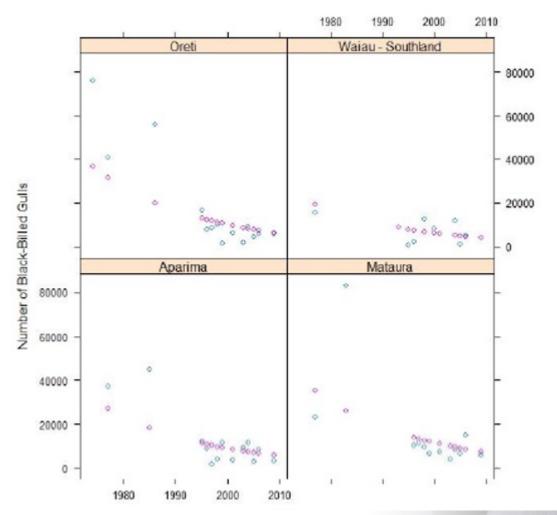
Riverbed habitats continue to experience threats and some level of decline continues to be reported, particularly in its South Island population (Walker and Monks 2020). Thus, the population of black-billed gull is assessed with a decline of 10-30%.



(Database extract)

Change in status: black-billed gull

At Risk Declining





Change in status: grey duck

Nationally Vulnerable

Status Change Change Reason Qualifiers

Notes

Better More knowledge

Conservation Research needed Data Poor: Recognition

Data Poor: Size Data Poor: Trend Secure Overseas

High level of hybridization with mallard has impacted the genetic 'purity' of the grey duck. Migration from Australia and isolated

populations suggest pure grey duck are still present in New Zealand. However, nuclear

DNA study is required to ascertain the genetic 'purity' of observed grey duck (Williams 2017,

2019). Recent observations suggest ongoing segregation of grey duck populations in areas

like Northland and West Coast from

widespread grey/mallard hybrid population;

this will have decreased the rate of introgression of mallard genes.



No changes: Nationally Endangered species

Common name	Threat Status 2016	Threat Status 2021	
Tarapirohe/black- fronted tern	Nationally Endangered	Nationally Endangered	Same



DEC 50-70% over 33 years (Medium confidence)
MATIND=1000-5000 (Medium confidence)

Changes: Nationally Vulnerable species

Common name	Threat Status 2016	Threat Status 2021	
Tūturiwhatu/banded			
dotterel	Nationally Vulnerable	Declining	Better
Taranui/Caspian tern	Nationally Vulnerable	Nationally Vulnerable	Same
Whio/blue duck	Nationally Vulnerable	Nationally Vulnerable	Same
Ngutu parore/wrybill	Nationally Vulnerable	Nationally Increasing	Better

Banded dotterel changes reflect uncertainty about:

- Rate of decline in coastal versus riverbed dotterels
- Overall population size (mature individuals)
- Generation time



Estimated rates of decline – Braided rivers



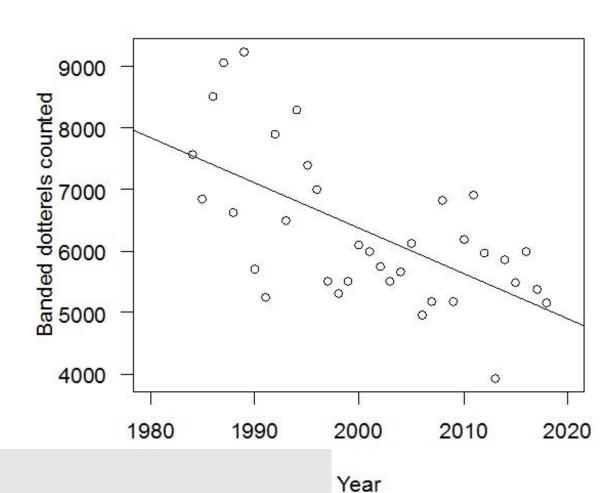
- Estimated for 33 rivers
- Overall average = -3.7% pa
- Decline of 43% over 3 generations (if generation time = 5 years) (=NV)

Image: Ailsa McGilvary-Howard

Estimated rates of decline – National wader







- Overall average = -1% pa
- Decline of 14% over 3 generations (=Declining)



Wrybill - Nationally Increasing

- New 'Threatened' category
- Reflects that population increasing
- National wader counts 2020 data shows a 22% increase over 3 generations (24 years)
- But still <5000, so vulnerable to sudden change
- And last 2 annual counts very low so still need to keep a close eye on status

Changes: At-Risk species

Common name	Threat Status 2016	Threat Status 2021	
Pīhoihoi/NZ pipit	Declining	Declining	Same
Tōrea/SI pied oystercatcher	Declining	Declining	Same
Tarāpunga/red-billed gull	Declining	Declining	Same
Tara/white-fronted tern	Declining	Declining	Same
Kāruhiruhi/pied shag	Recovering	Recovering	Same
Tōrea pango/variable			
oystercatcher	Recovering	Recovering	Same
Black-fronted dotterel	Naturally Uncommon	Naturally Uncommon	Same
Māpanga/black-shag	Naturally Uncommon	Relict	Worse
Kawaupaka/little shag	Naturally Uncommon	Relict	Worse
Royal spoonbill	Naturally Uncommon	Naturally Uncommon	Same

No change: Not Threatened species

Common name	Threat Status 2016	Threat Status 2021	
Grey teal	Not Threatened	Not Threatened	Same
Australasian shoveler	Not Threatened	Not Threatened	Same
NZ scaup	Not Threatened	Not Threatened	Same
Australasian harrier	Not Threatened	Not Threatened	Same
white-faced heron	Not Threatened	Not Threatened	Same
pied stilt	Not Threatened	Not Threatened	Same
welcome swallow	Not Threatened	Not Threatened	Same
s. black-backed gull	Not Threatened	Not Threatened	Same
paradise shelduck	Not Threatened	Not Threatened	Same
NZ kingfisher	Not Threatened	Not Threatened	Same
spur-winged plover	Not Threatened	Not Threatened	Same

Conclusions

- Recent changes a result of better information on population size and trend, rather than real changes in trend
- However, generally low-medium confidence in:
 - Actual trends
 - Longevity and generation times
- Reviews every 5 years could change these so strong need to grow our knowledge
- All Threatened and At-Risk species have extinction profiles so allneed for protection and more conservation management

NZTCS Resources

- Web site https://nztcs.org.nz/
- Latest bird assessment
- https://www.doc.govt.nz/globalassets/doc uments/science-andtechnical/nztcs36entire.pdf



Conservation status of birds in Aotearoa New Zealand, 2021

Hugh A. Robertson, Karen A. Baird, Graeme P. Elliott, Rodney A. Hitchmough, Nikki J. McArthur, Troy D. Makan, Colin M. Miskelly, Colin F. J. O'Donnell, Paul M. Sagar, R. Paul Scofield, Graeme A. Taylor and Pascale Michel



