## 2017 STATE OF NZ GARDEN BIRDS Te Ähua o ngā Manu o te Kāri i Aotearoa







### BACKYARD BEATS

#### What are our birds telling us?

Birds act as 'backyard barometers' – telling us about the health of the environment we live in.

They are signalling significant changes in our environment over the last 11 years.

We should be listening.

Using cutting-edge techniques, Manaaki Whenua – Landcare Research has distilled a substantial information base – bird counts gathered by New Zealanders from over 31,000 garden surveys since 2007 – into simple but powerful metrics.



A positive picture is emerging for a native garden bird, tūī (kōkō); this species has increased across all regions, albeit at a relatively low rate (c. 22% over 11 years). In sharp contrast, silvereye (tauhou) counts have almost halved over the same period.



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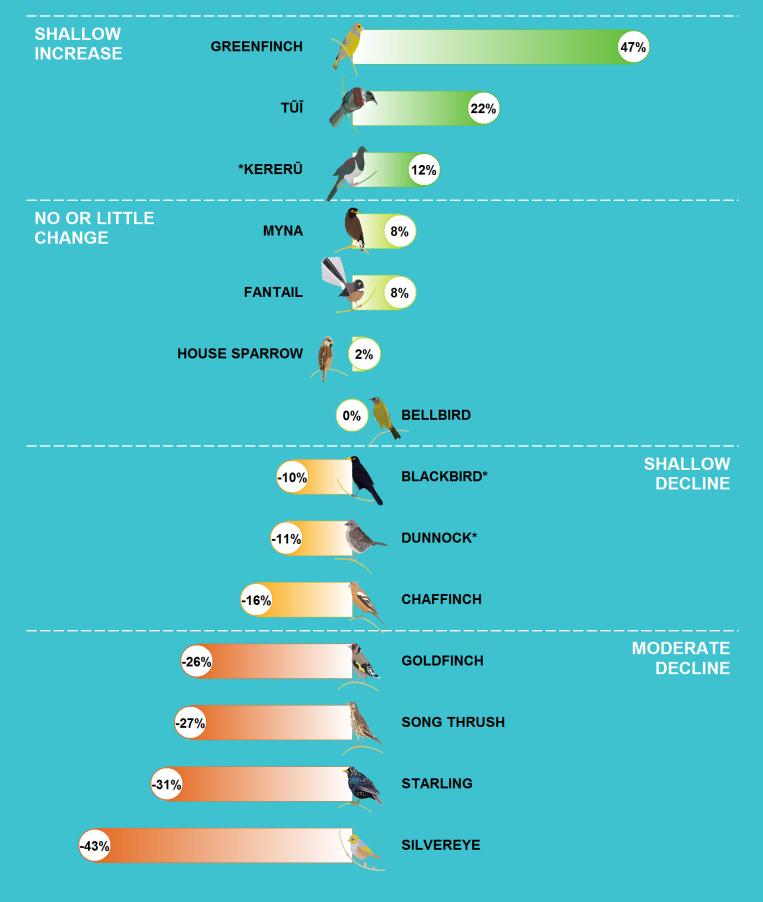
Six of the most common species (starling, song thrush, goldfinch, chaffinch, dunnock and blackbird) in our gardens have also experienced shallow to moderate declines (10–31% over 11 years). It might be tempting to dismiss these declines as unimportant because these birds were all introduced to New Zealand from Europe. However, they are signalling change in our urban and rural environments which we need to better understand.

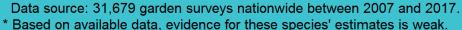


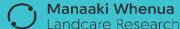
#### How have bird counts changed?

# New Zealand GARDEN BIRD SURVEY

#### NATIONAL PICTURE | 2007-2017









### **THANK YOU**

to all our volunteer bird counters!

31,679 garden surveys nationwide



We have estimated how bird counts have changed since 2007 across New Zealand's regions for 14 common garden visitors – five native and nine introduced birds.

Thanks to all our volunteer bird counters, 31,679 garden surveys have been completed nationwide since 2007. We use specialised statistical tools to account for variation in sampling effort between regions, towns and suburbs over time. We also account for variation in bird counts depending on whether the surveyed gardens were in a rural or urban setting and if birds were fed or not. We also correct for the actual number of gardens in each area.

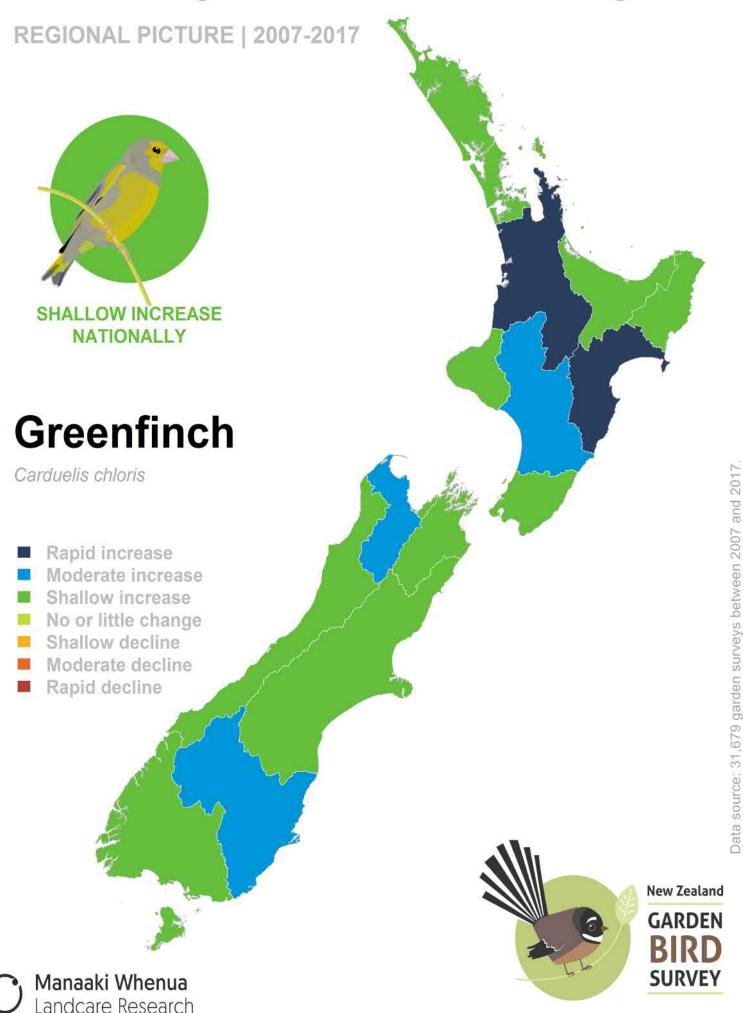
We then classify these changes according to their direction and size (see diagram below) to help us identify changes of potential concern or interest.

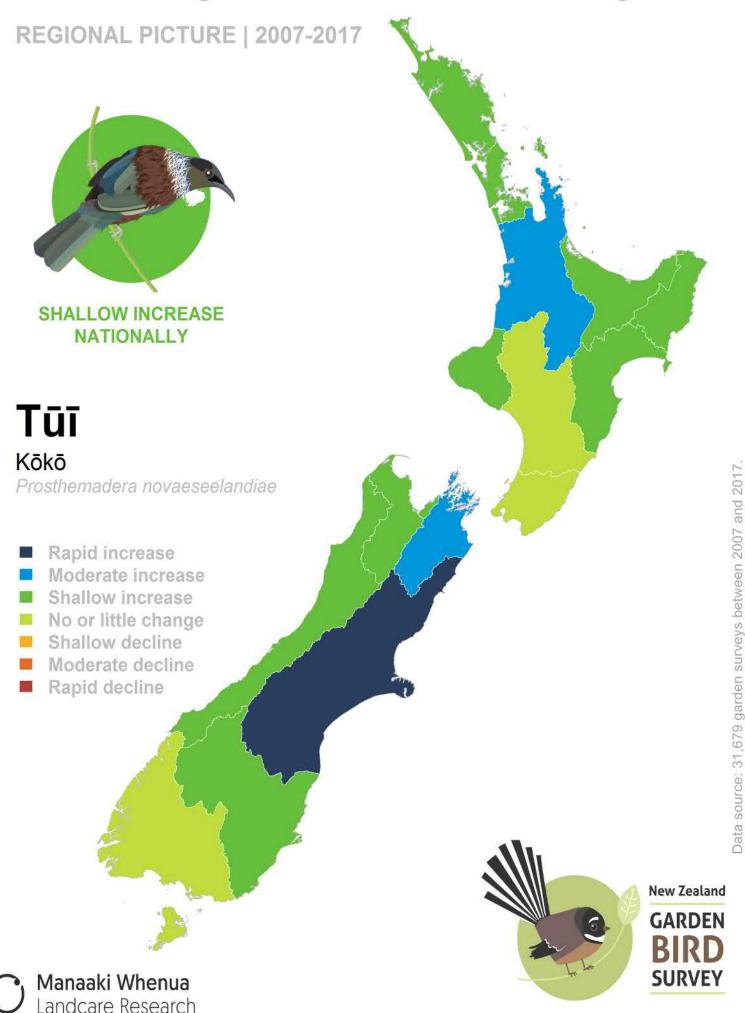
How have bird counts changed?

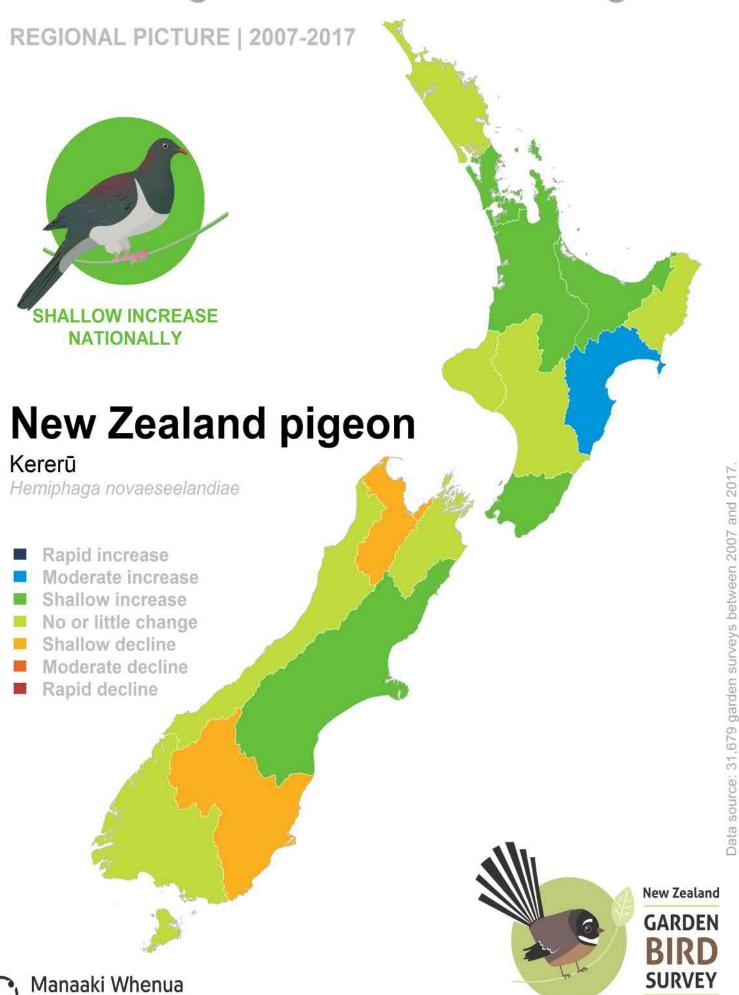


Drawing attention to changes in counts that may be of concern or interest

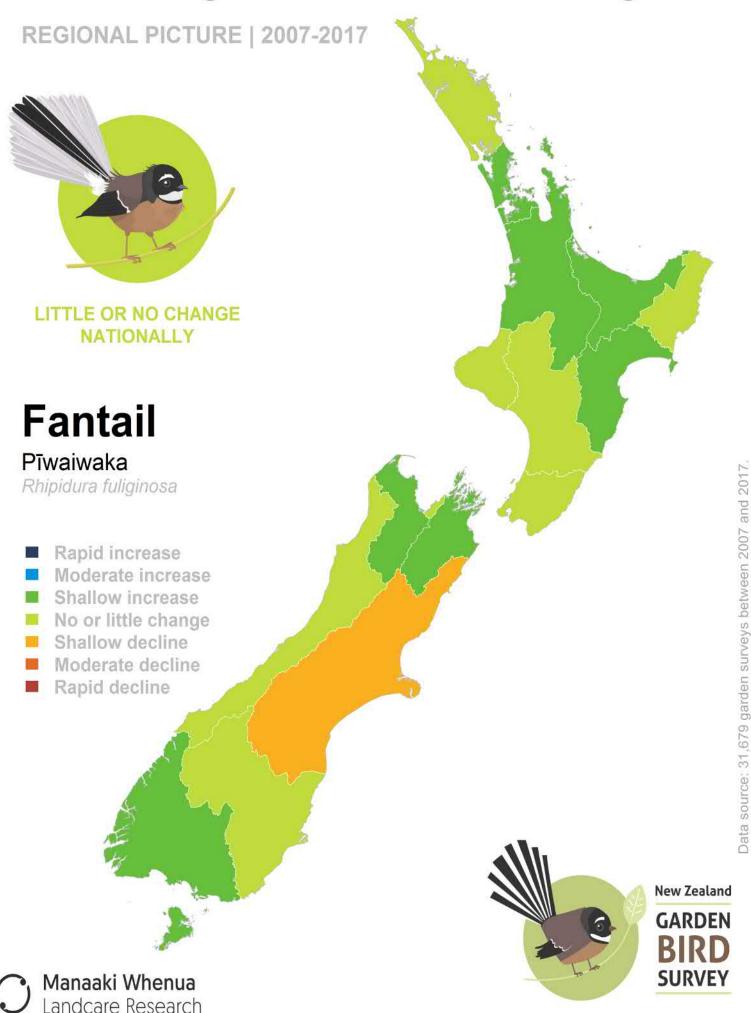


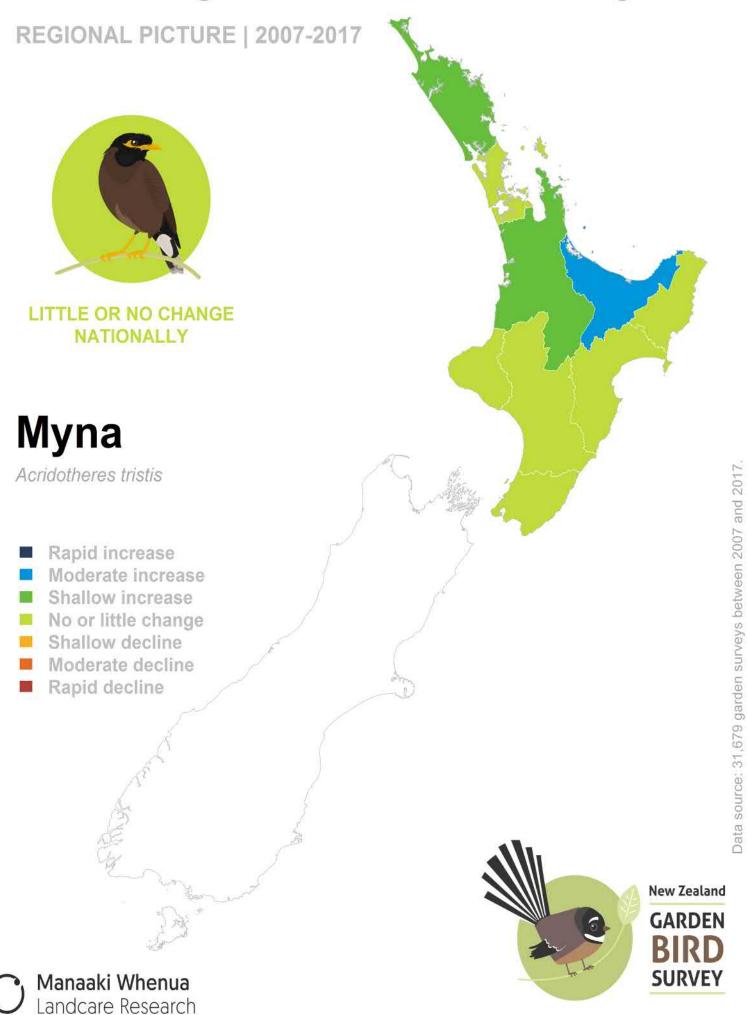


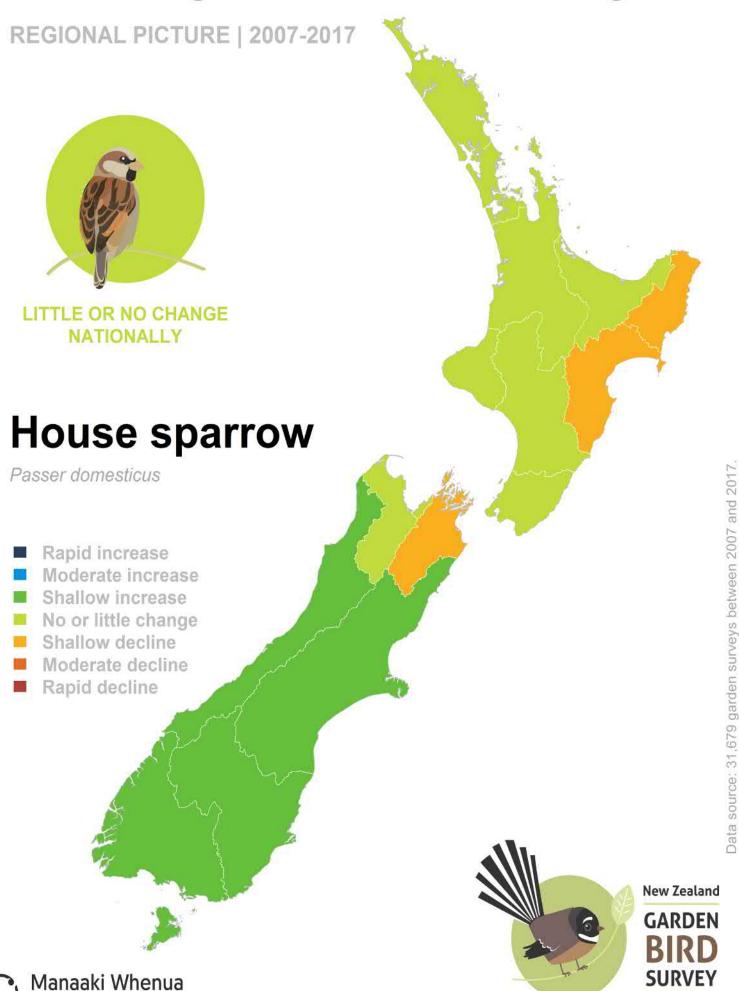




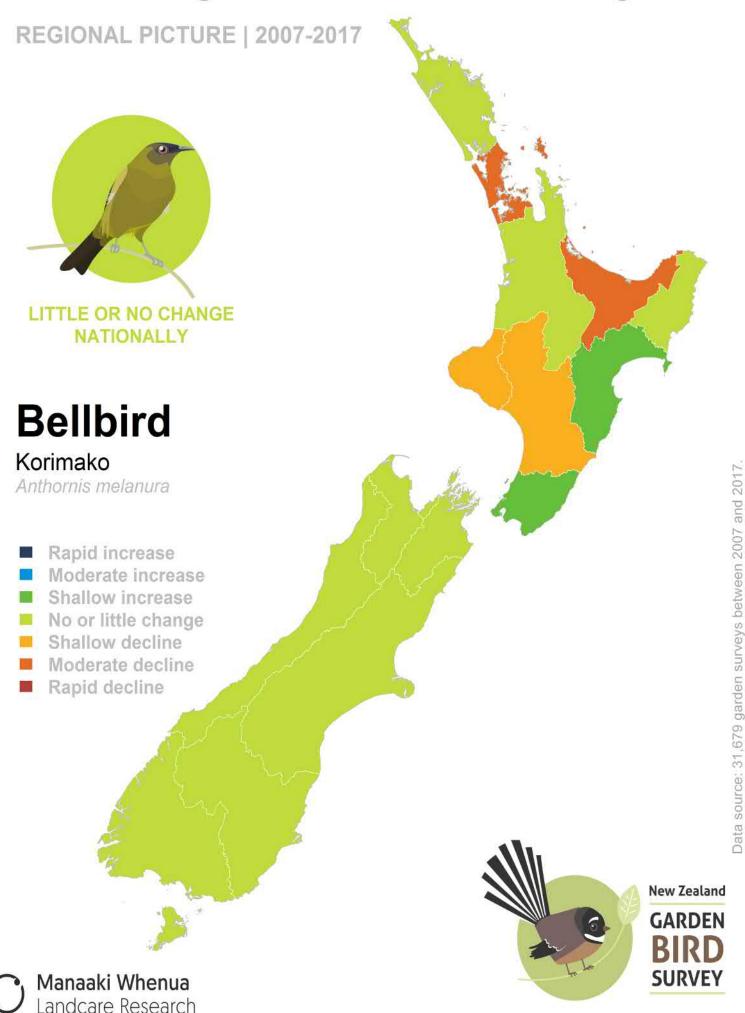
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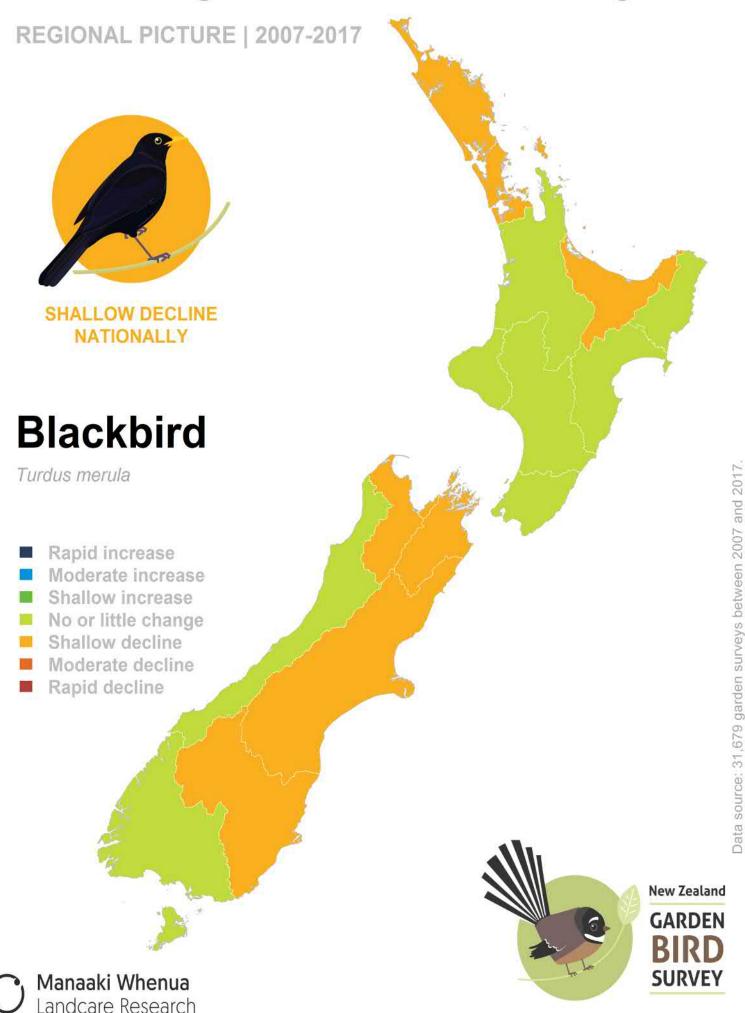


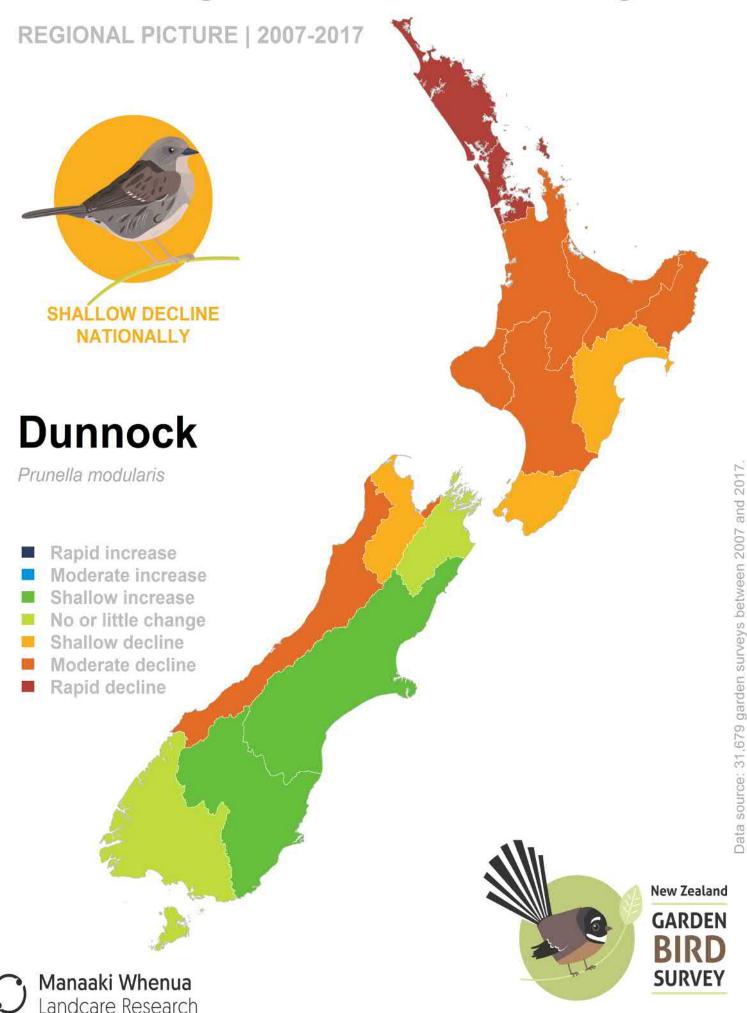


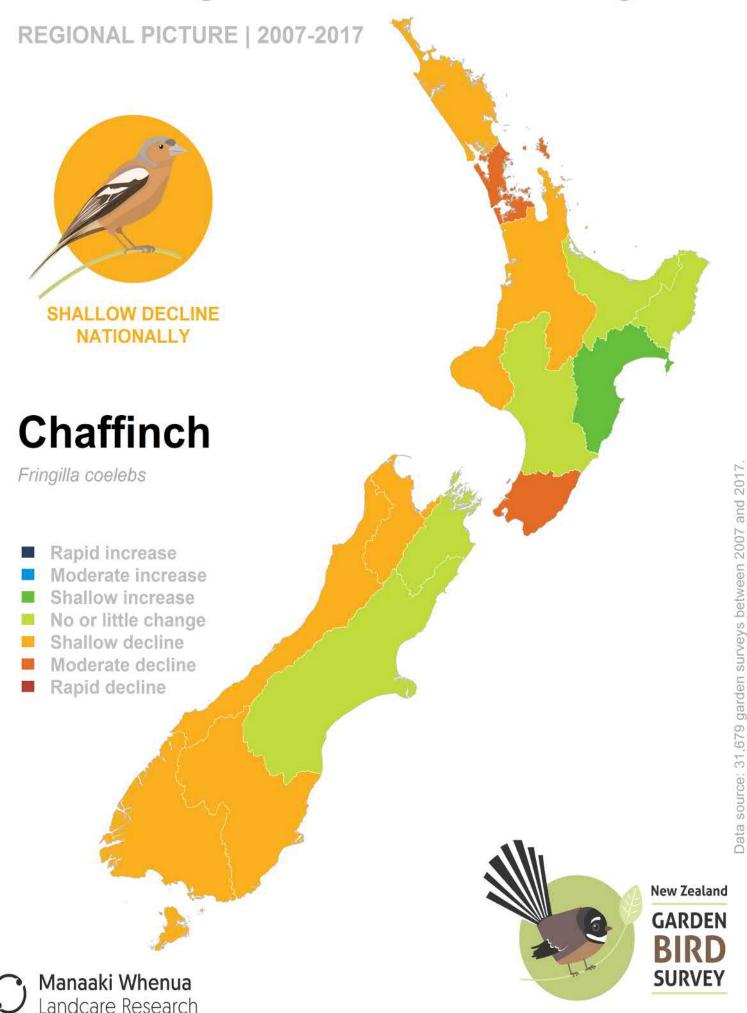


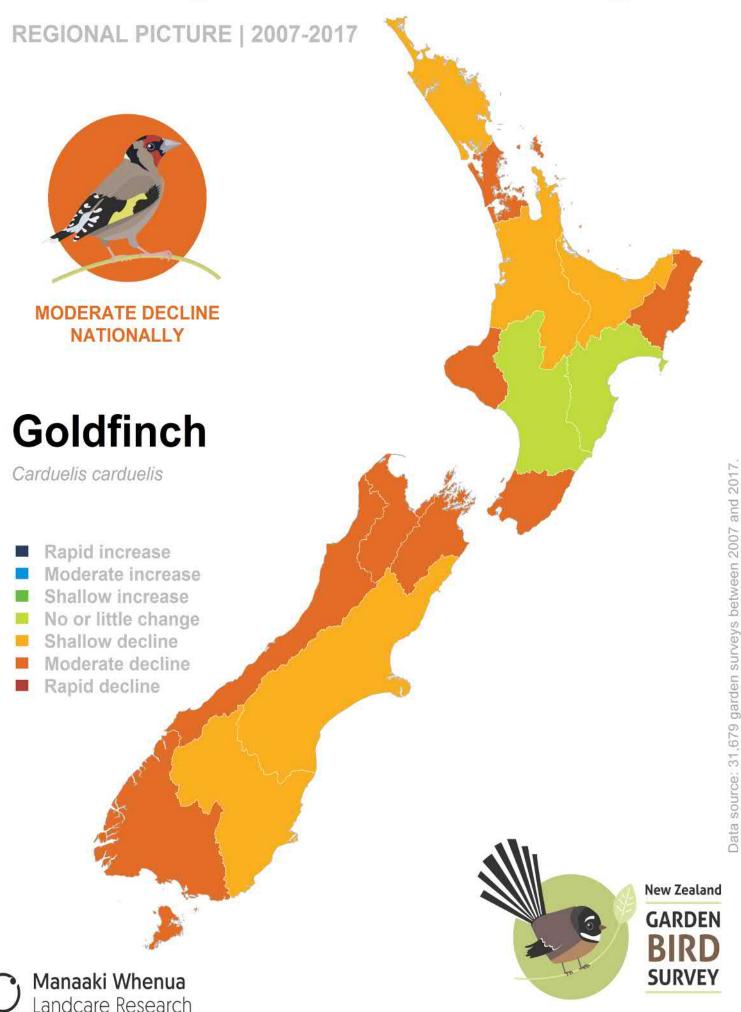
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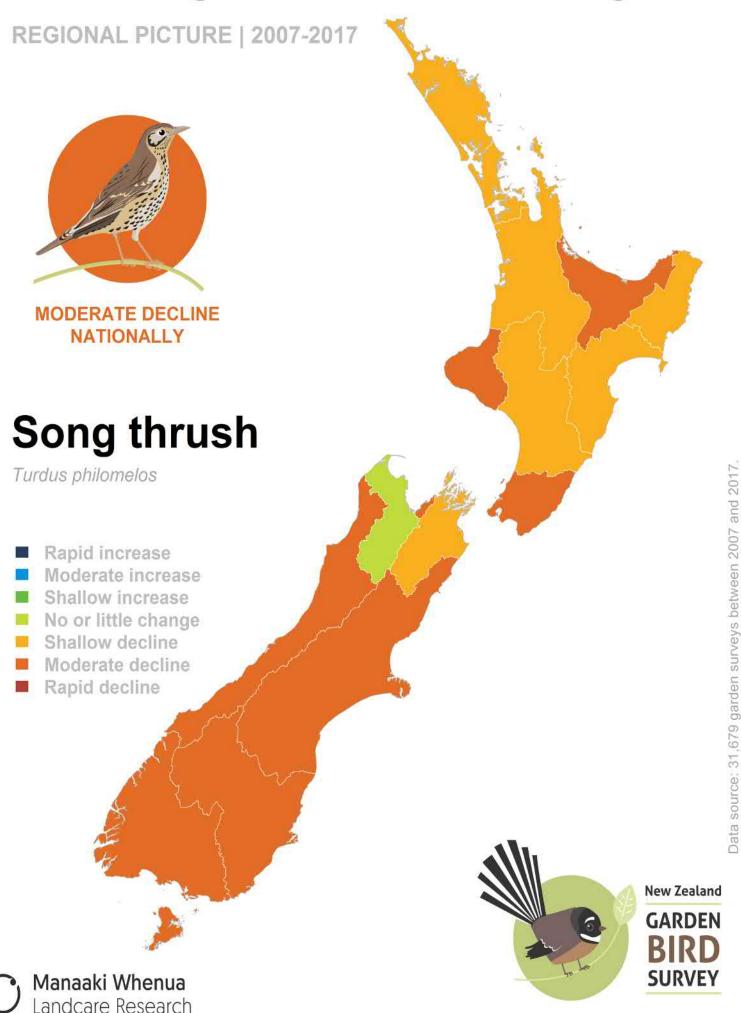


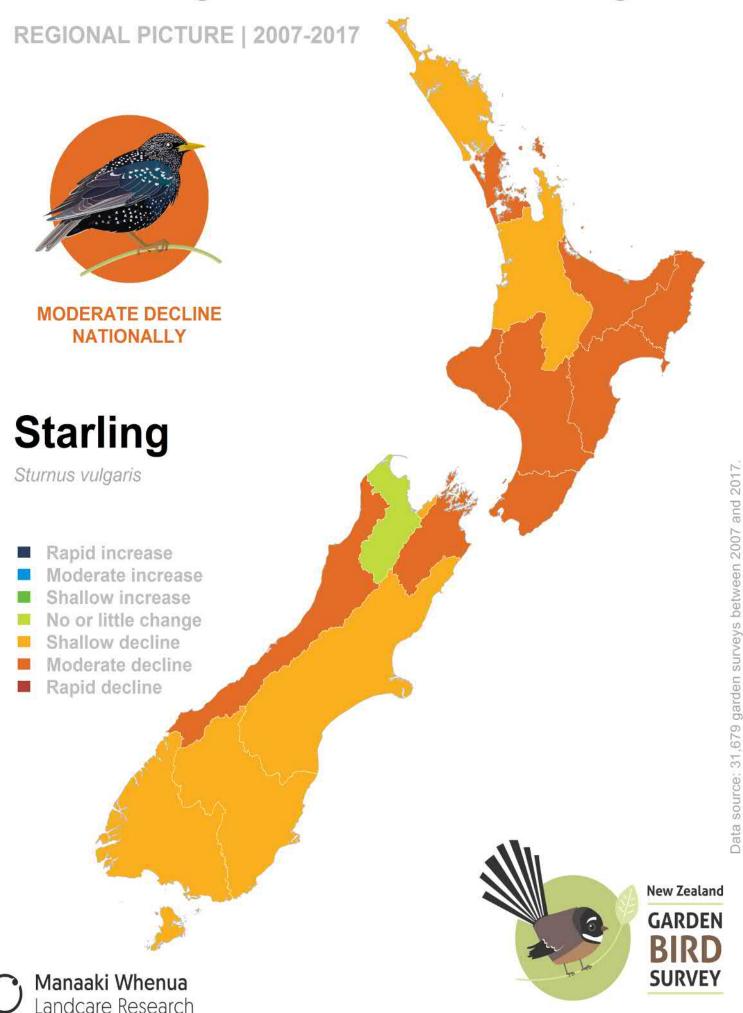


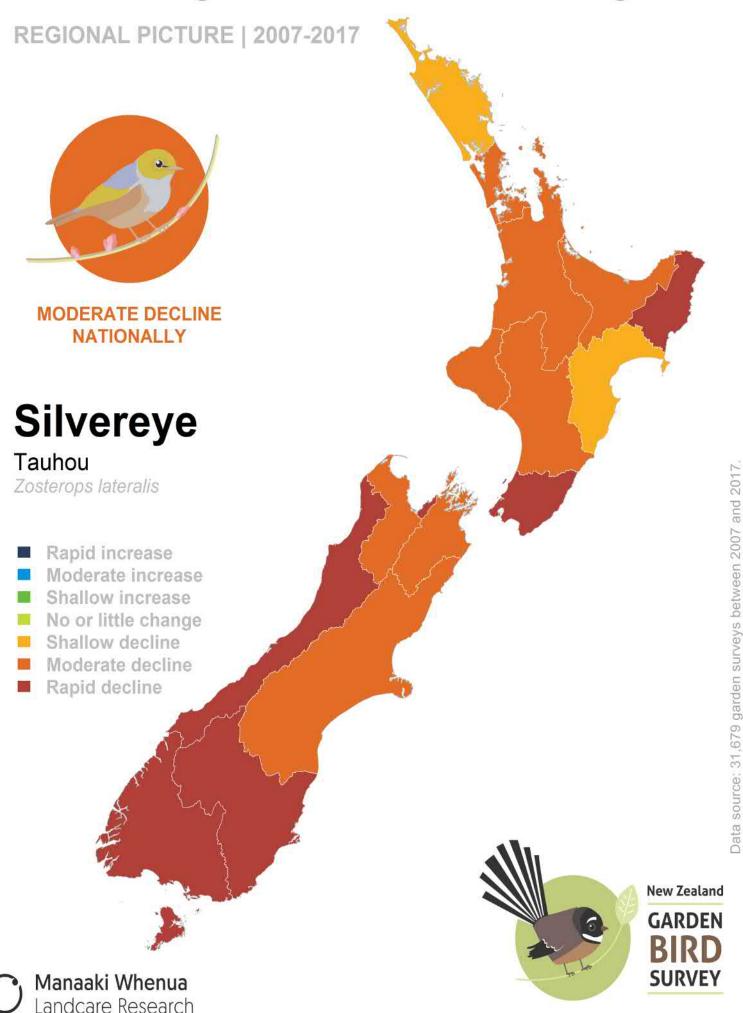














2018 30 June to 8 July

Visit our webpage to learn more:

gardenbirdsurvey.landcareresearch.co.nz

