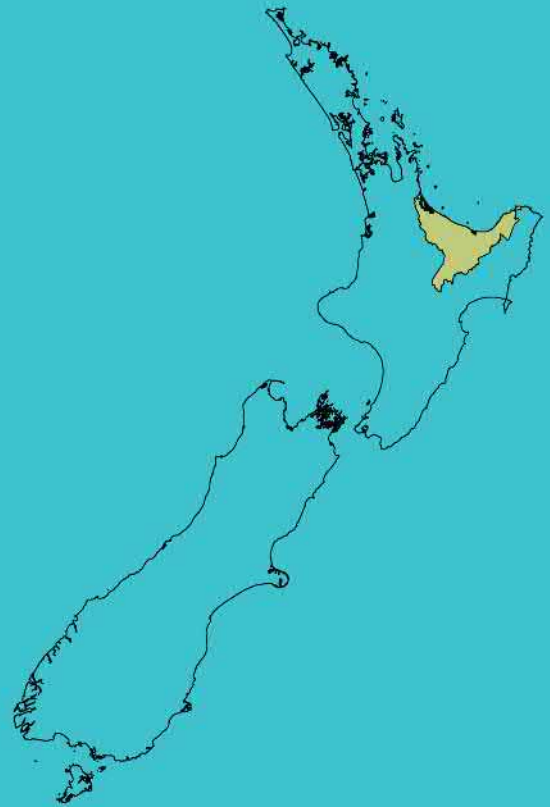




New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

State of NZ Garden Birds 2017

Te Āhua o ngā Manu o te Kāri i Aotearoa

NUMBER OF SURVEYED GARDENS



Manaaki
Whenua
Landcare
Research

We have estimated how bird counts have changed since 2007 in different regions and towns across New Zealand 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

Counts decline

50% or more

25% or more

10% or more

RAPID DECLINE

MODERATE DECLINE

SHALLOW DECLINE

NO OR LITTLE CHANGE

Counts increase

Over 10%

Over 50%

Over 100%

SHALLOW INCREASE

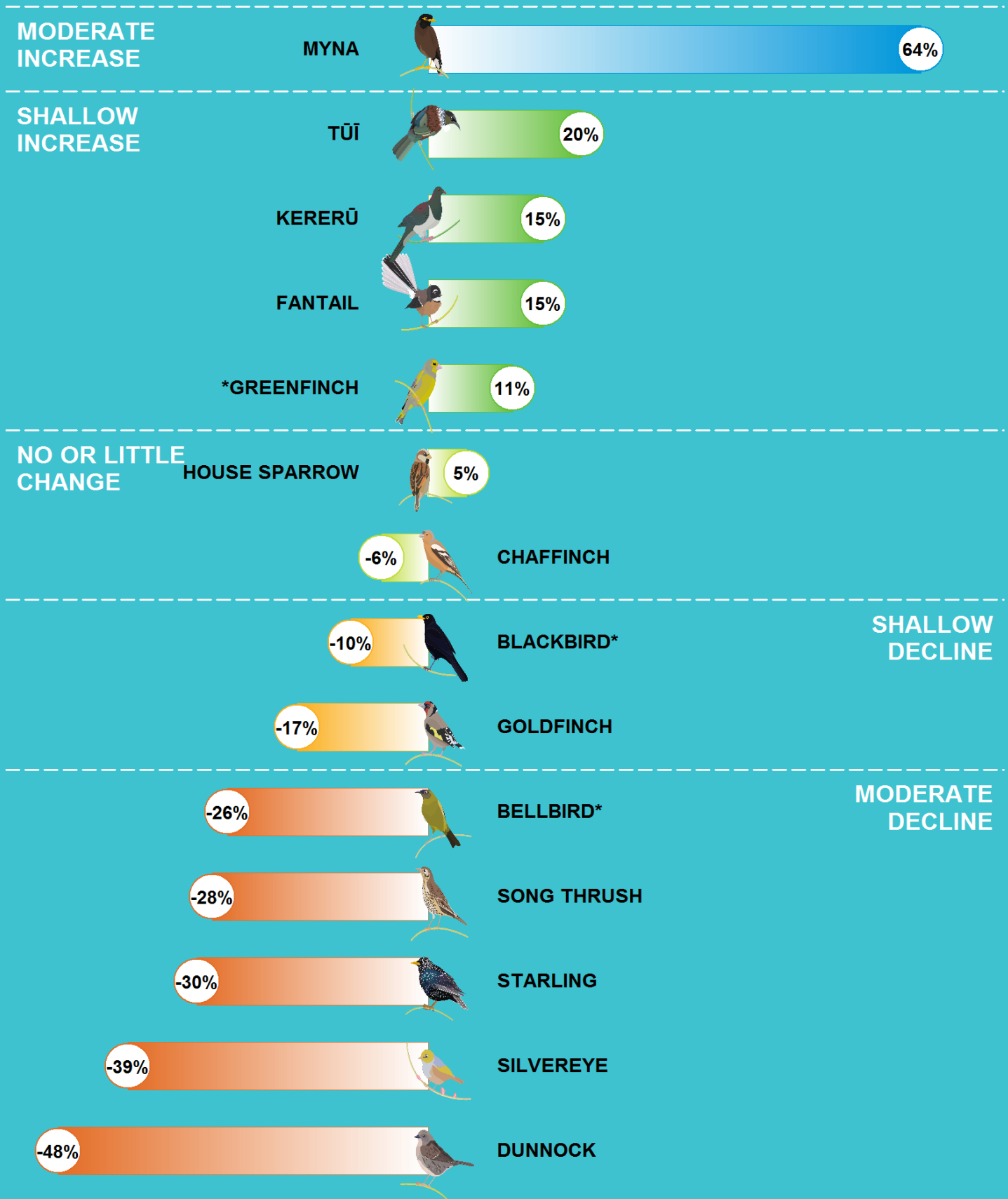
MODERATE INCREASE

RAPID INCREASE

How have bird counts changed?



BAY OF PLENTY REGION | 2007-2017



Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 1077 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



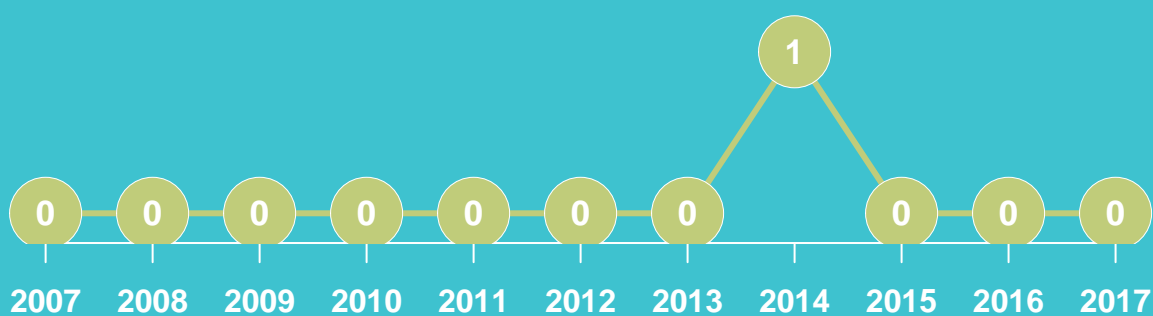
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

EDGECUMBE

NUMBER OF SURVEYED GARDENS

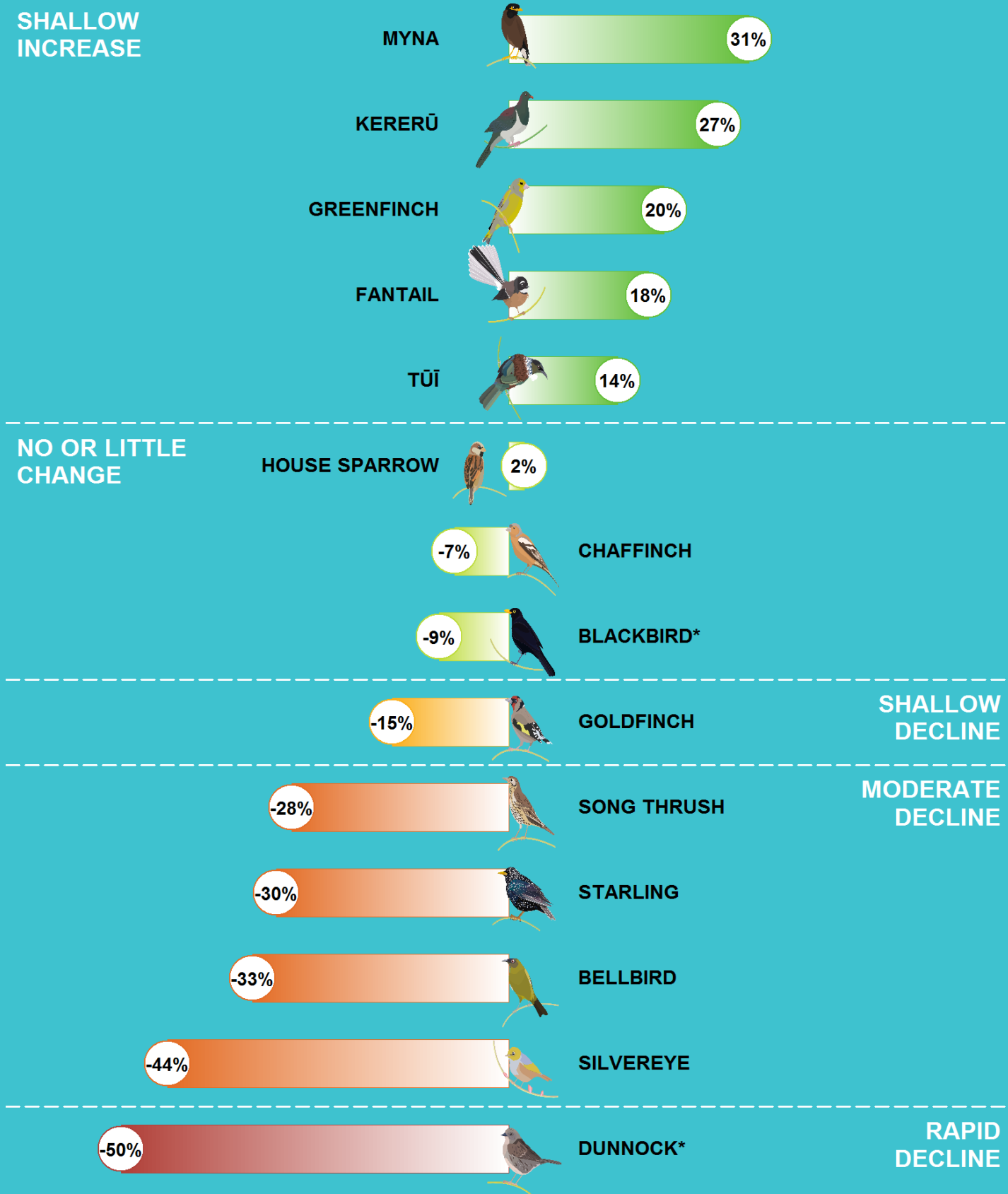


**Manaaki
Whenua**
Landcare
Research

How have bird counts changed?

BAY OF PLENTY REGION | 2007-2017

Edgecumbe



Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 1 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



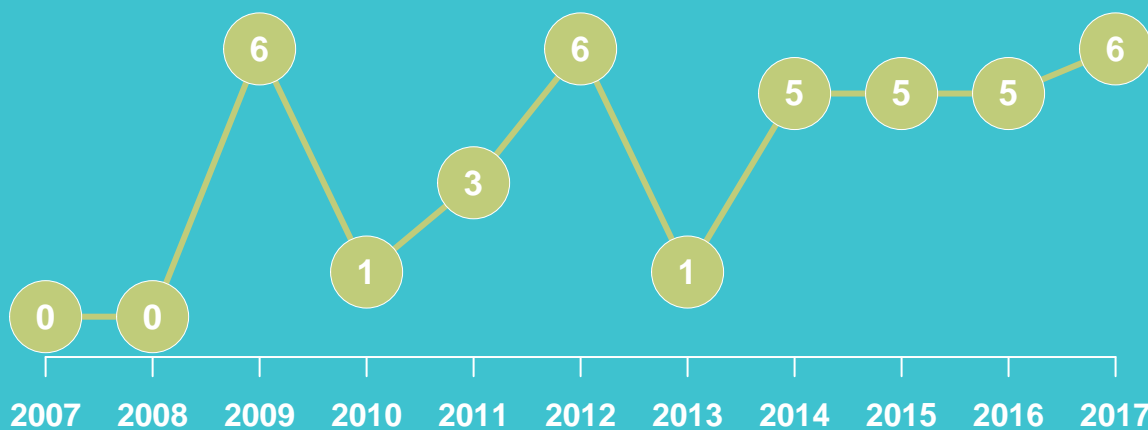
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

KATIKATI COMMUNITY

NUMBER OF SURVEYED GARDENS



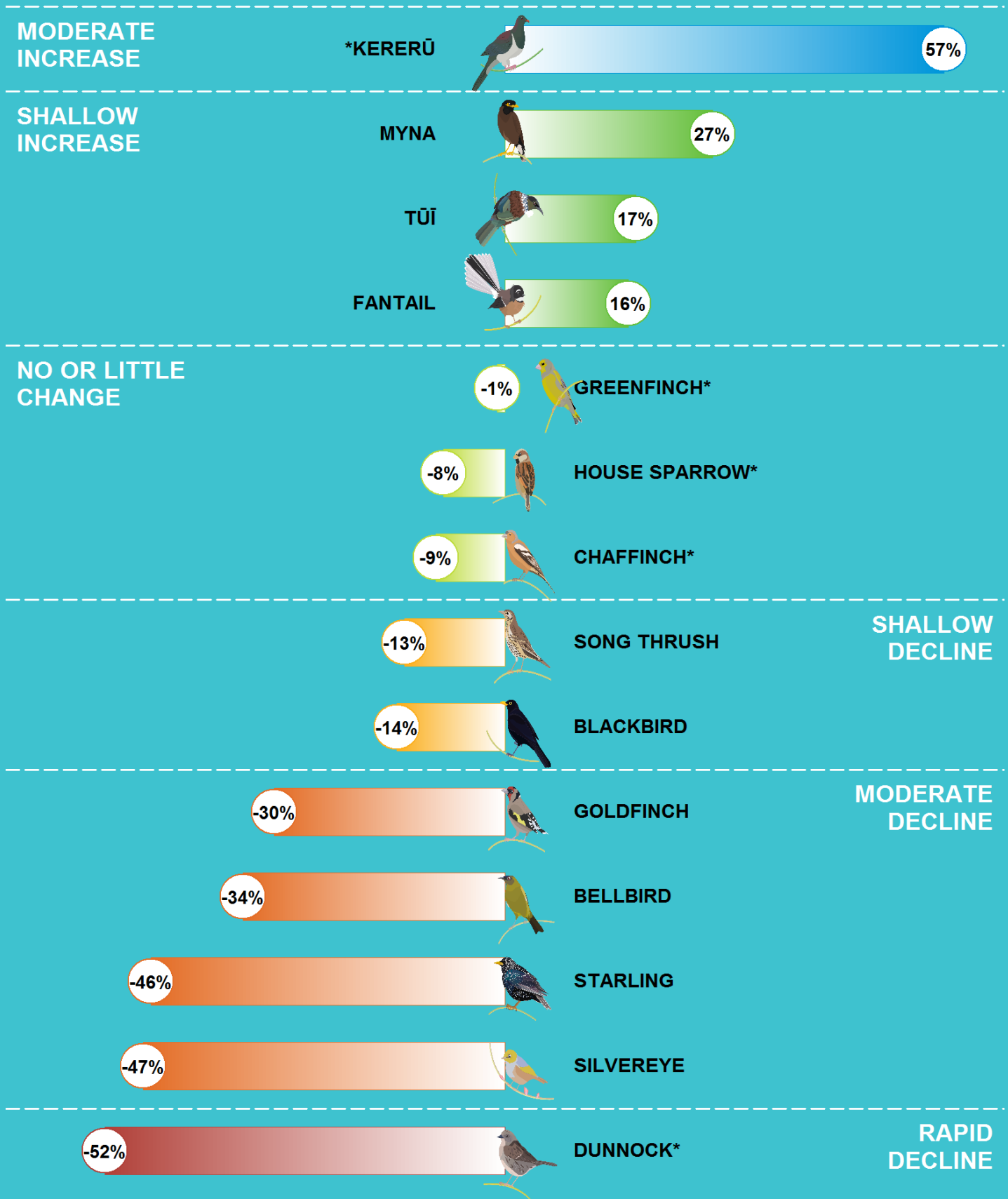
Manaaki
Whenua
Landcare
Research

How have bird counts changed?



BAY OF PLENTY REGION | 2007-2017

Katikati Community

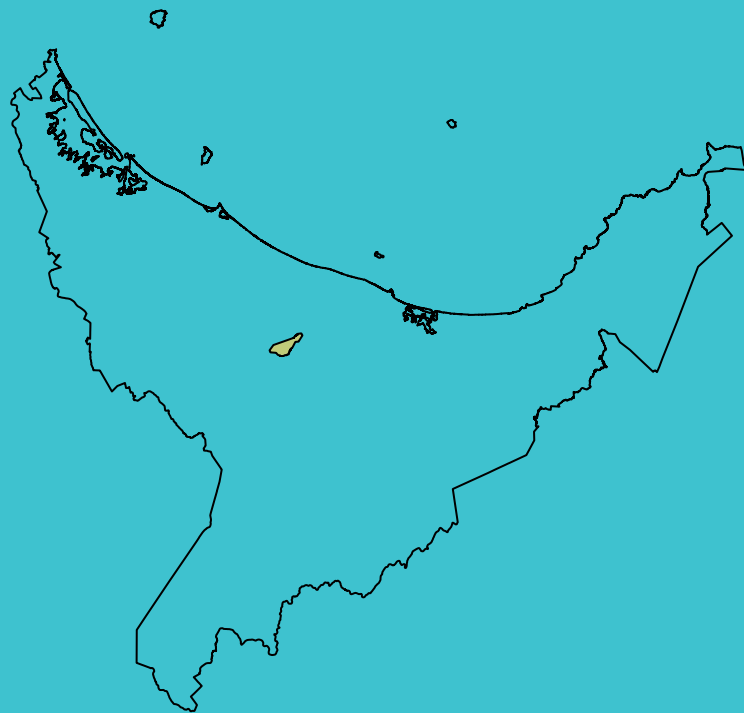


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 38 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



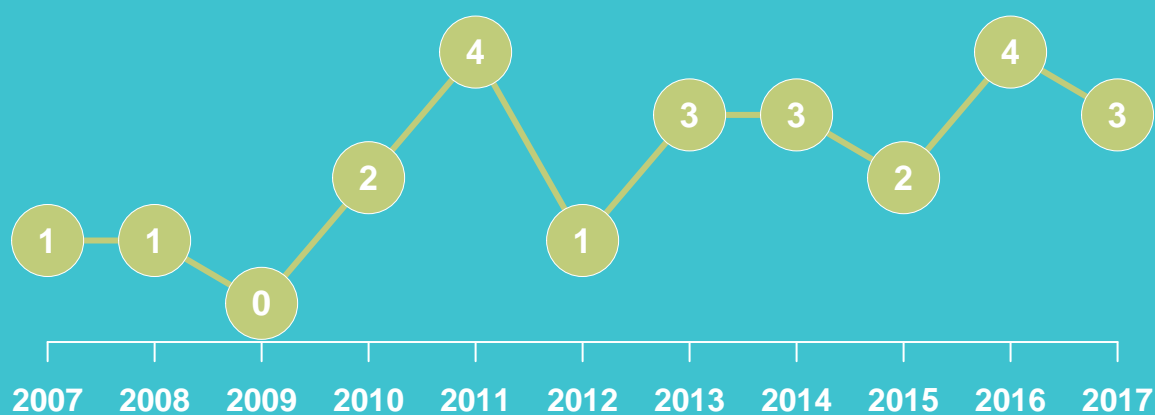
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

KAWERAU

NUMBER OF SURVEYED GARDENS



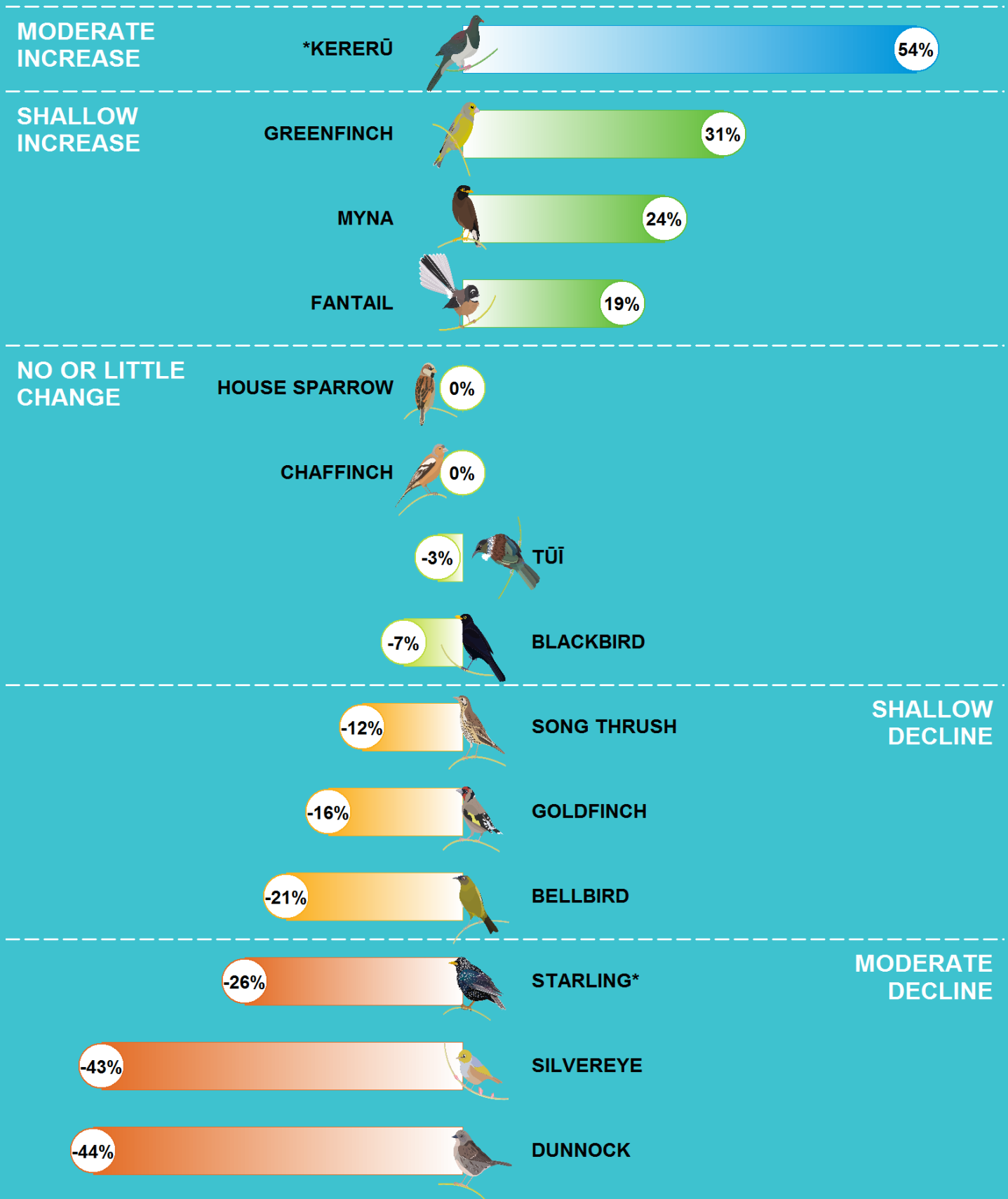
Manaaki
Whenua
Landcare
Research

How have bird counts changed?



BAY OF PLENTY REGION | 2007-2017

Kawerau



Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 24 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



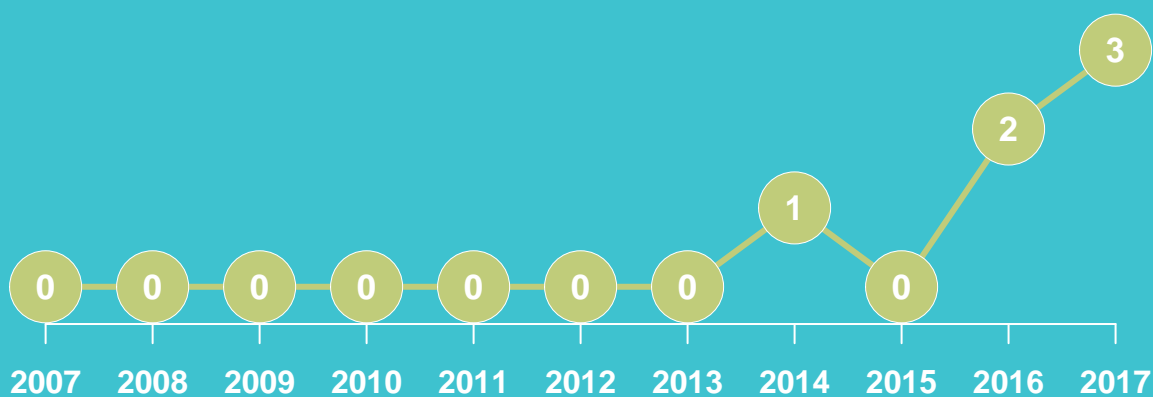
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

OPOTIKI

NUMBER OF SURVEYED GARDENS



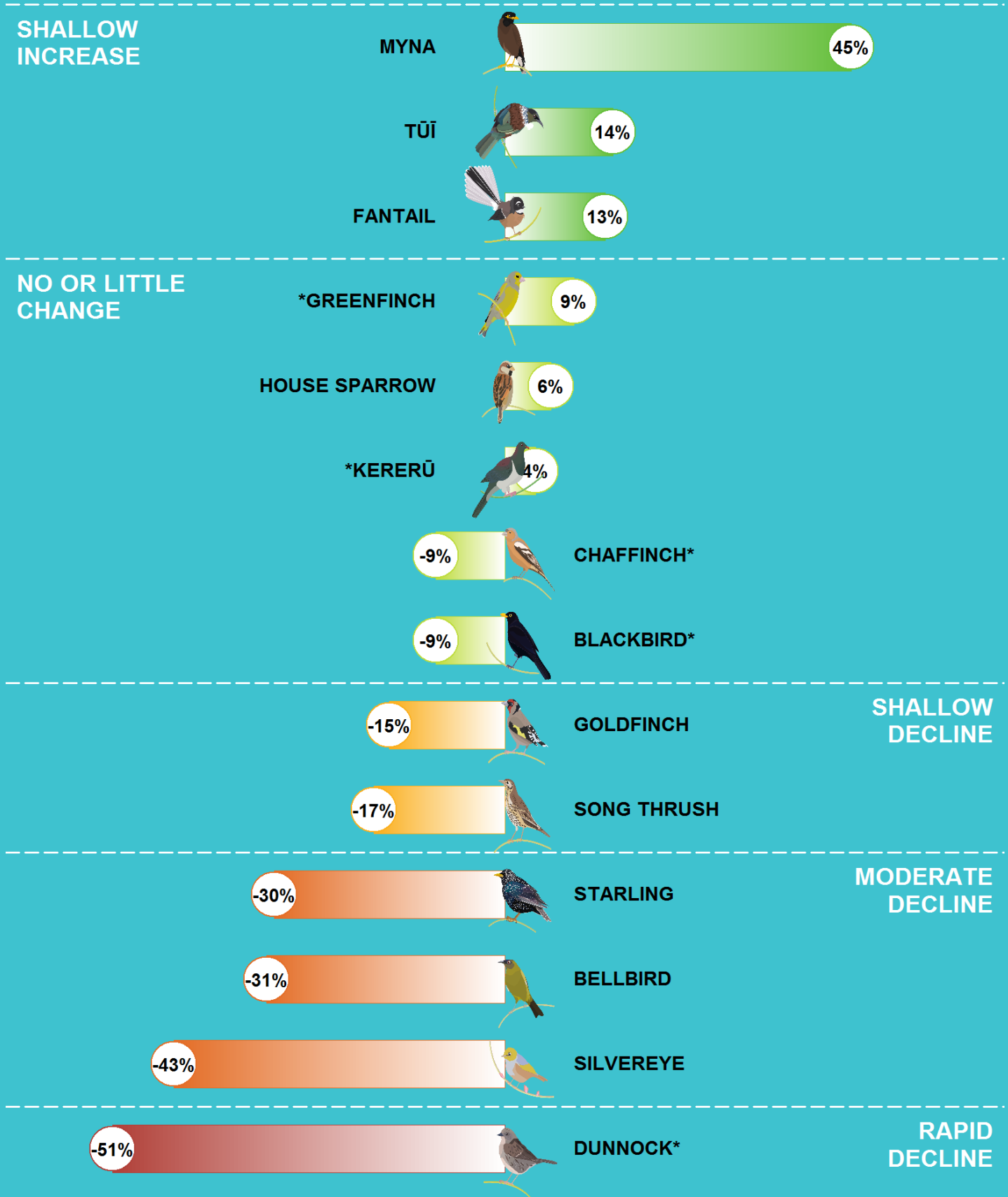
Manaaki
Whenua
Landcare
Research

How have bird counts changed?



BAY OF PLENTY REGION | 2007-2017

Opotiki



Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 6 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



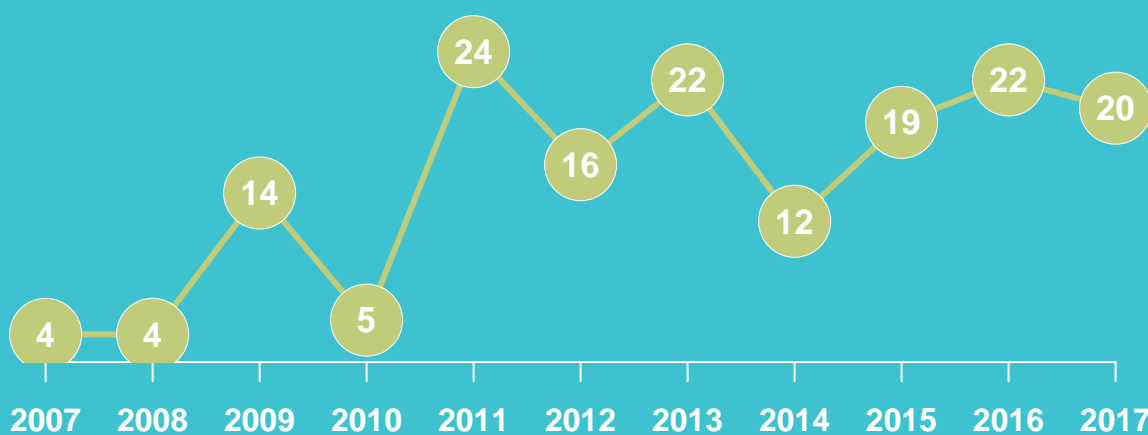
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

ROTORUA

NUMBER OF SURVEYED GARDENS

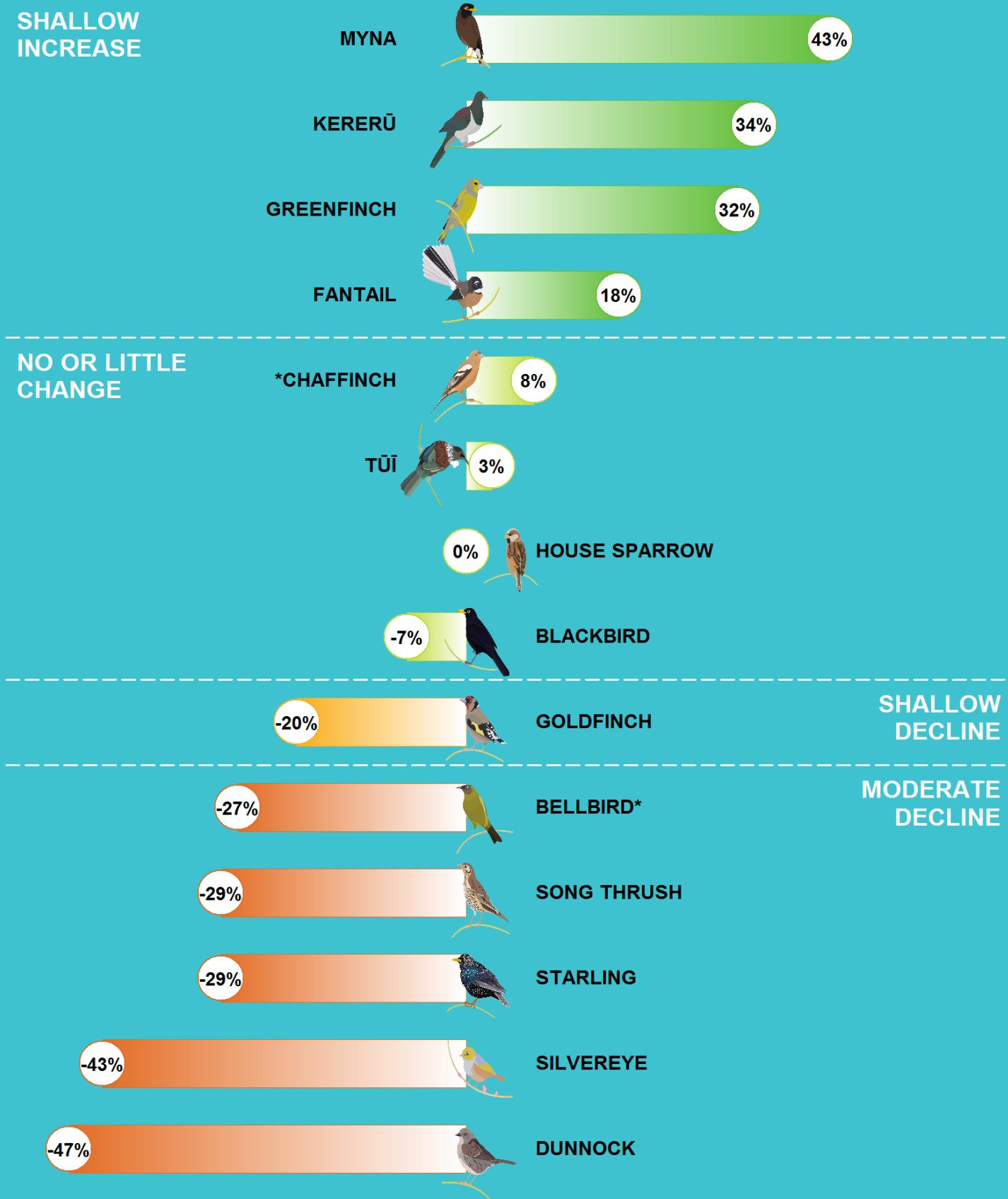


**Manaaki
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Landcare
Research

How have bird counts changed?

BAY OF PLENTY REGION | 2007-2017

Rotorua

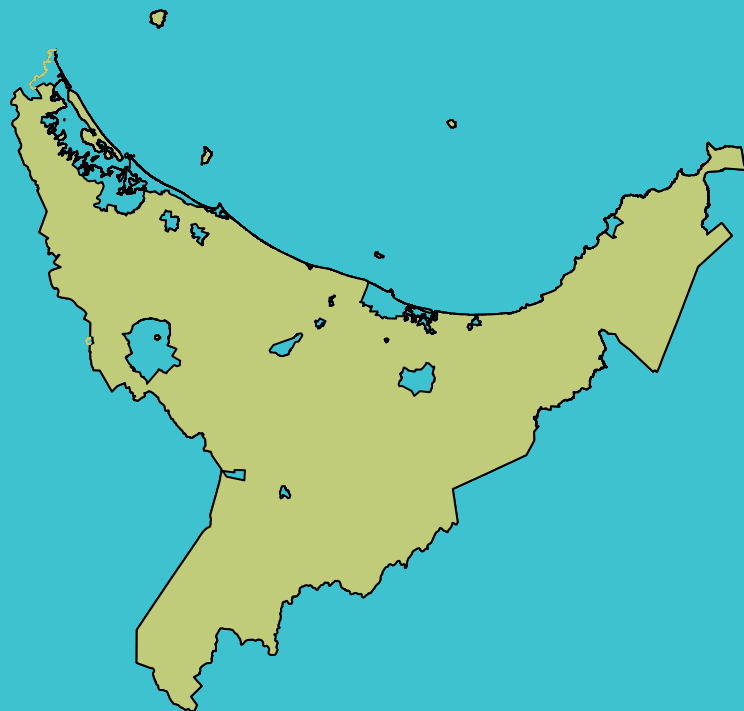


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 162 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



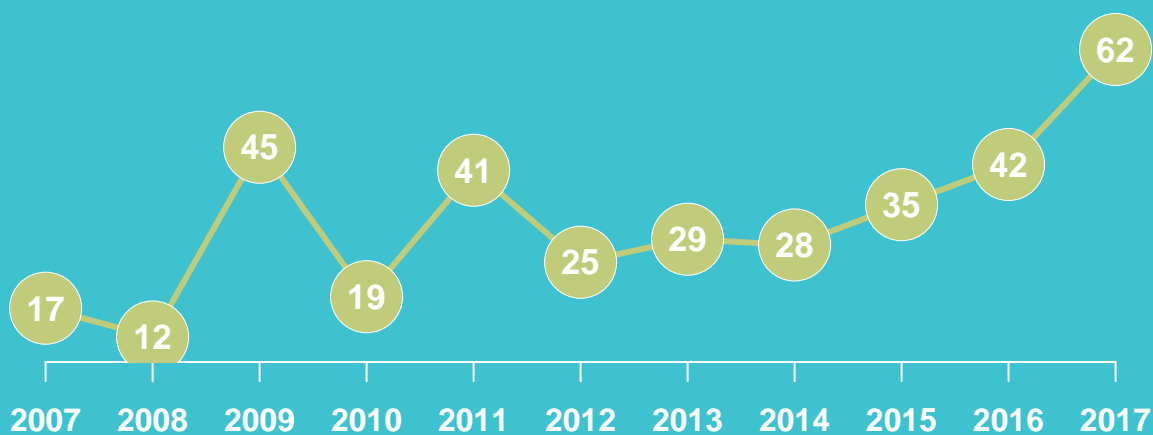
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

RURAL (INCL.SOME OFF SHORE ISLANDS)

NUMBER OF SURVEYED GARDENS



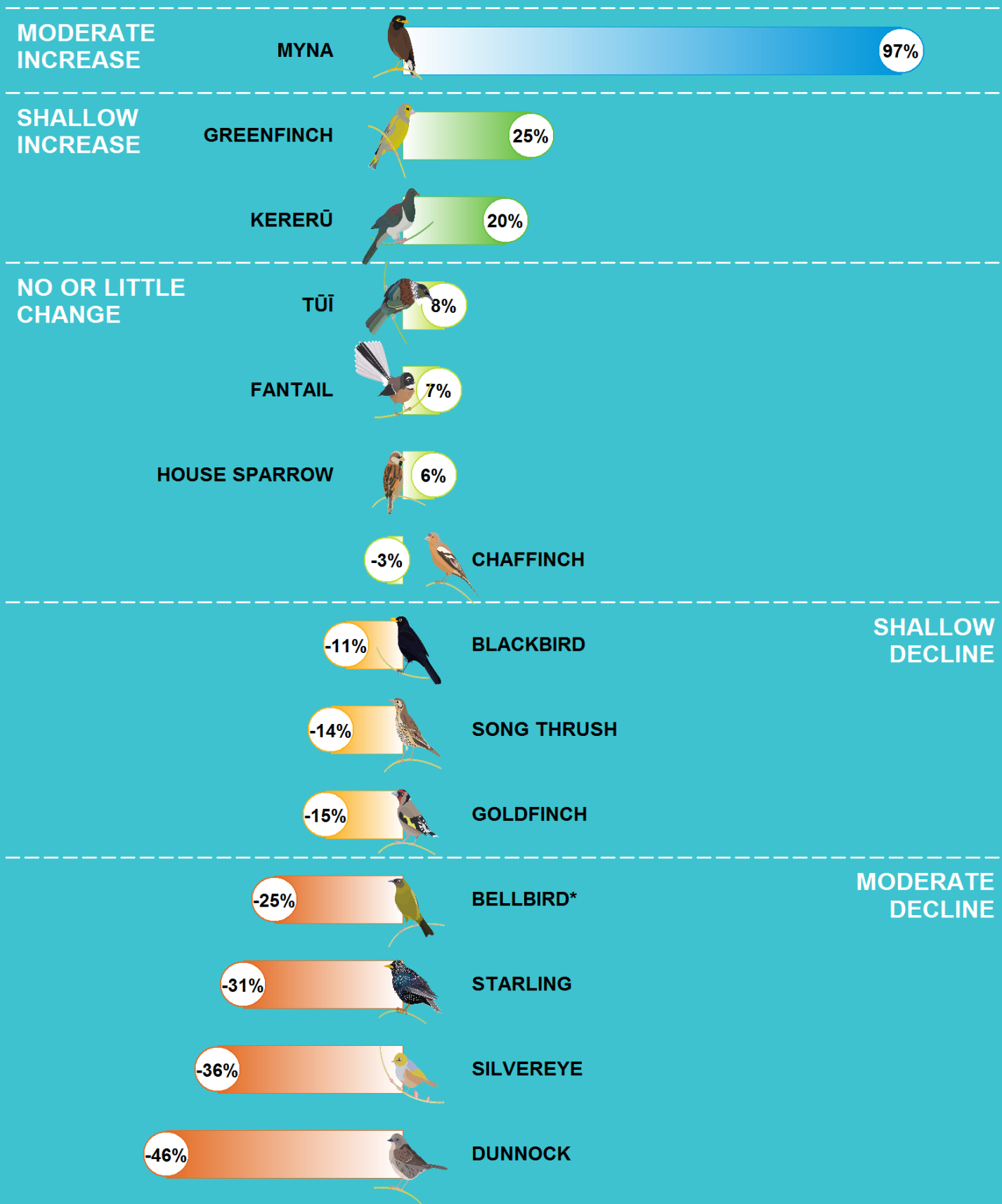
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Landcare
Research

How have bird counts changed?



BAY OF PLENTY REGION | 2007-2017

Rural (Incl.some Off Shore Islands)

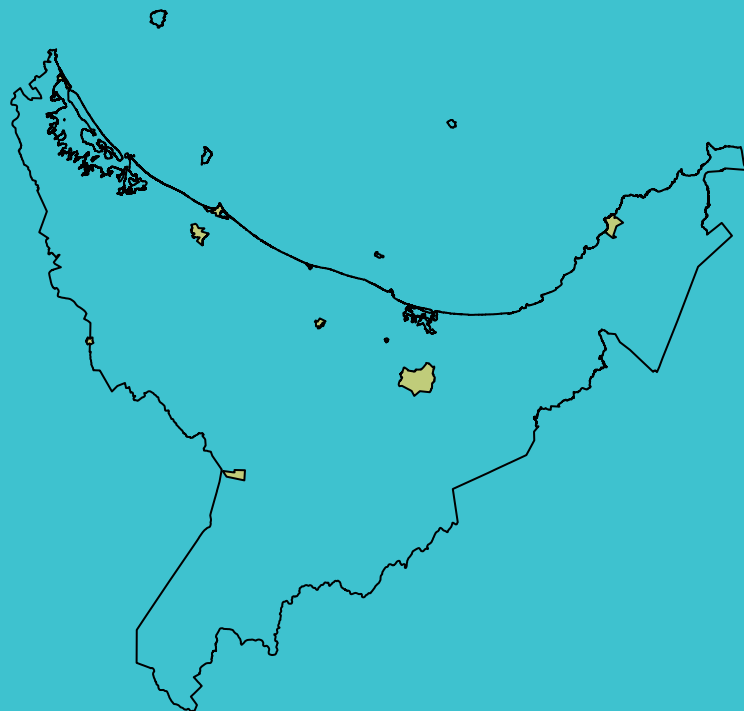


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 355 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



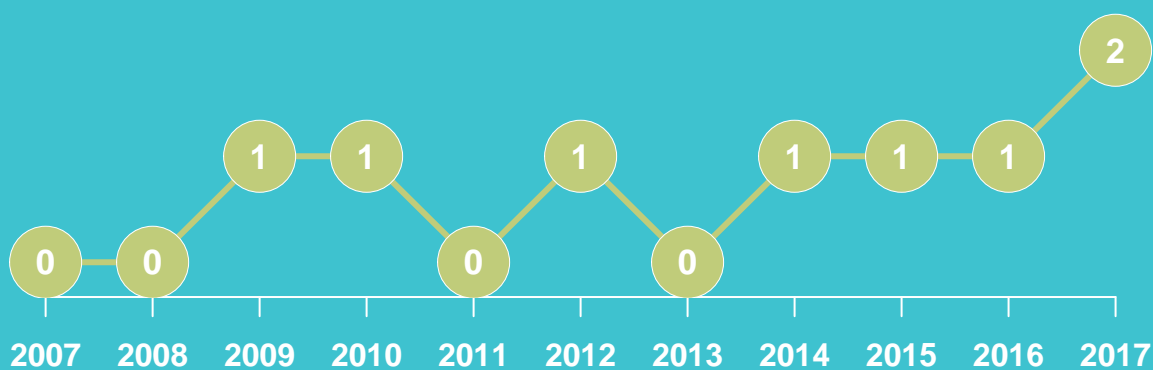
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

RURAL CENTRE

NUMBER OF SURVEYED GARDENS

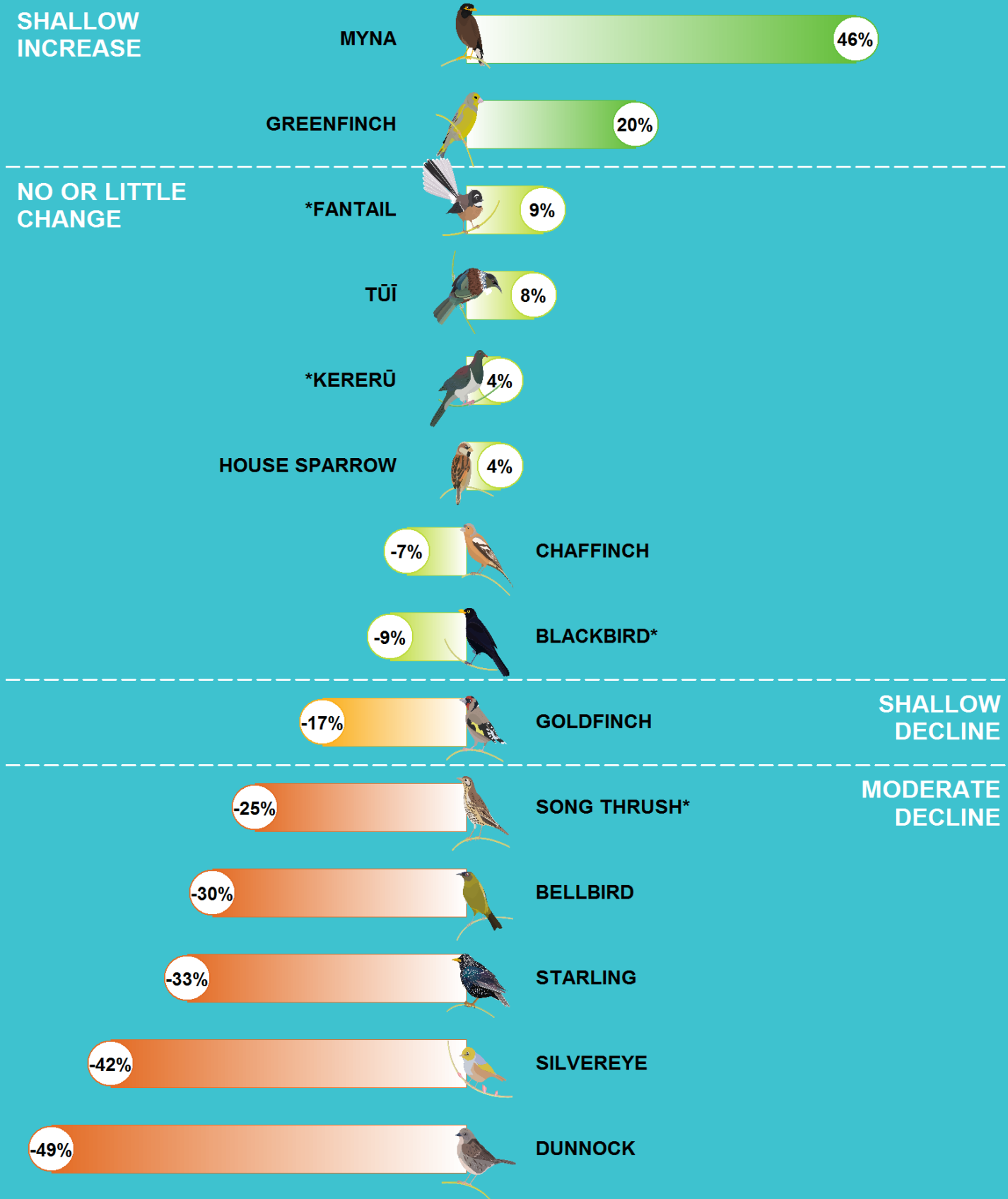


**Manaaki
Whenua**
Landcare
Research

How have bird counts changed?

BAY OF PLENTY REGION | 2007-2017

Rural Centre

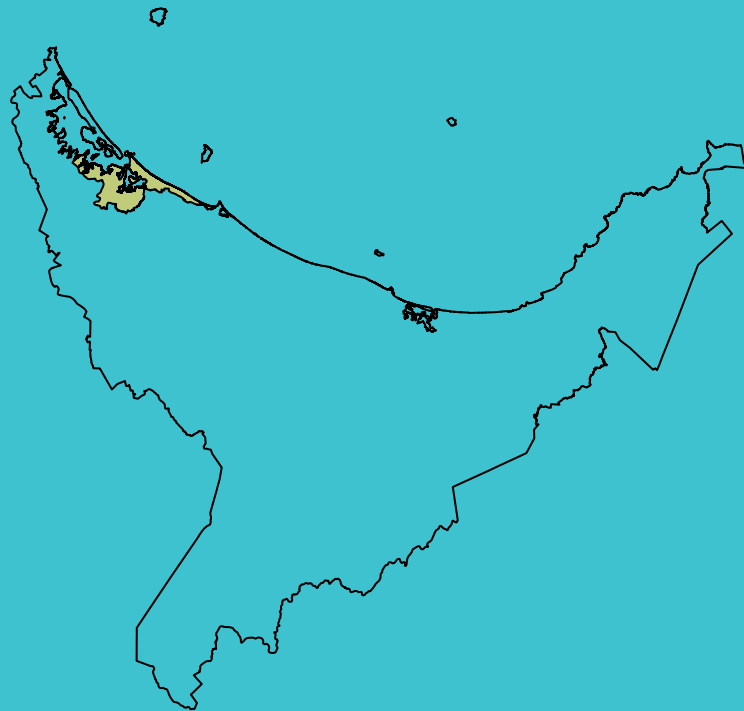


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 8 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



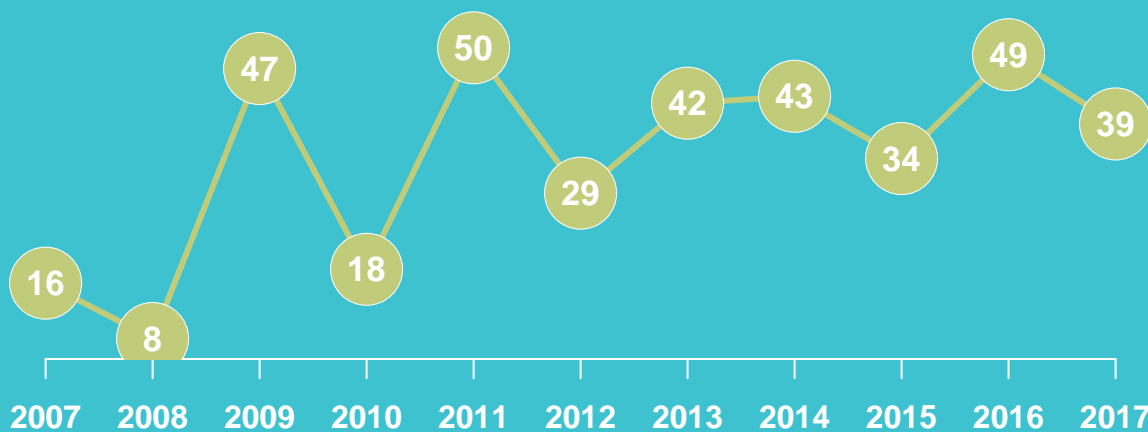
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

TAURANGA

NUMBER OF SURVEYED GARDENS



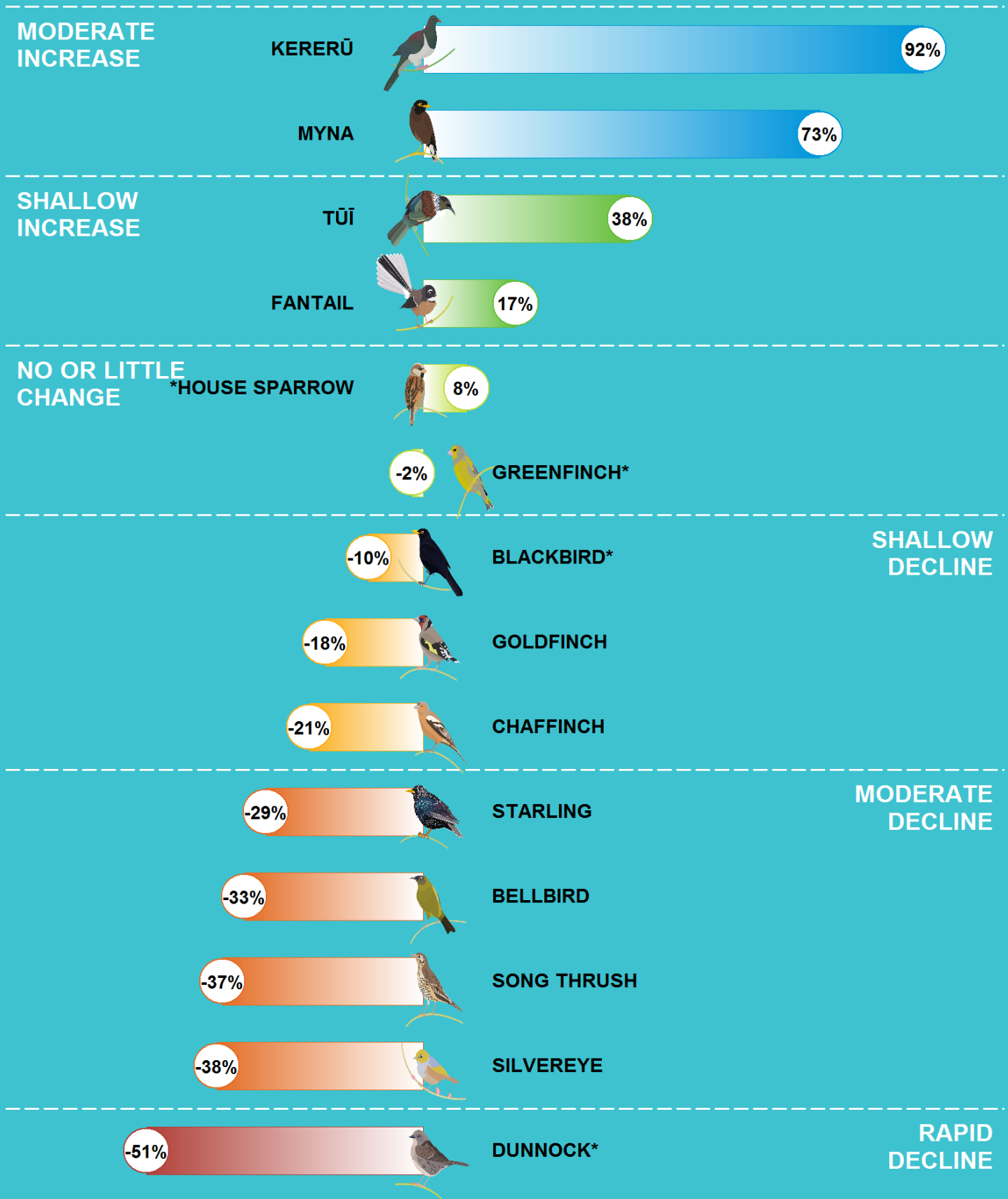
Manaaki
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How have bird counts changed?



BAY OF PLENTY REGION | 2007-2017

Tauranga

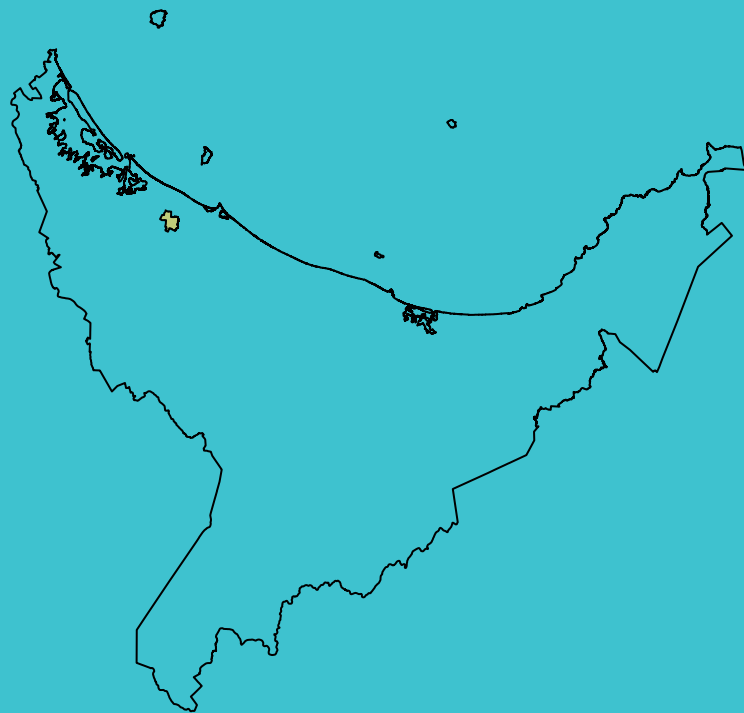


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 375 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



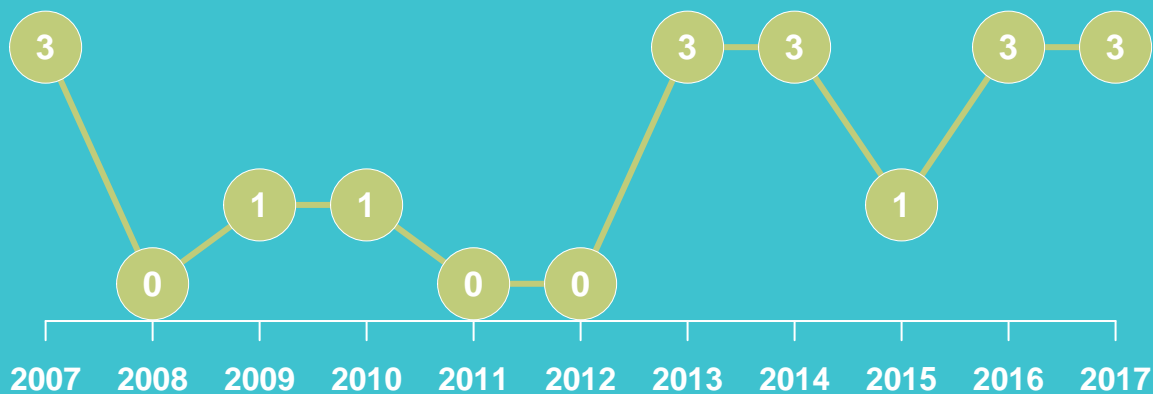
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

TE PUKE COMMUNITY

NUMBER OF SURVEYED GARDENS

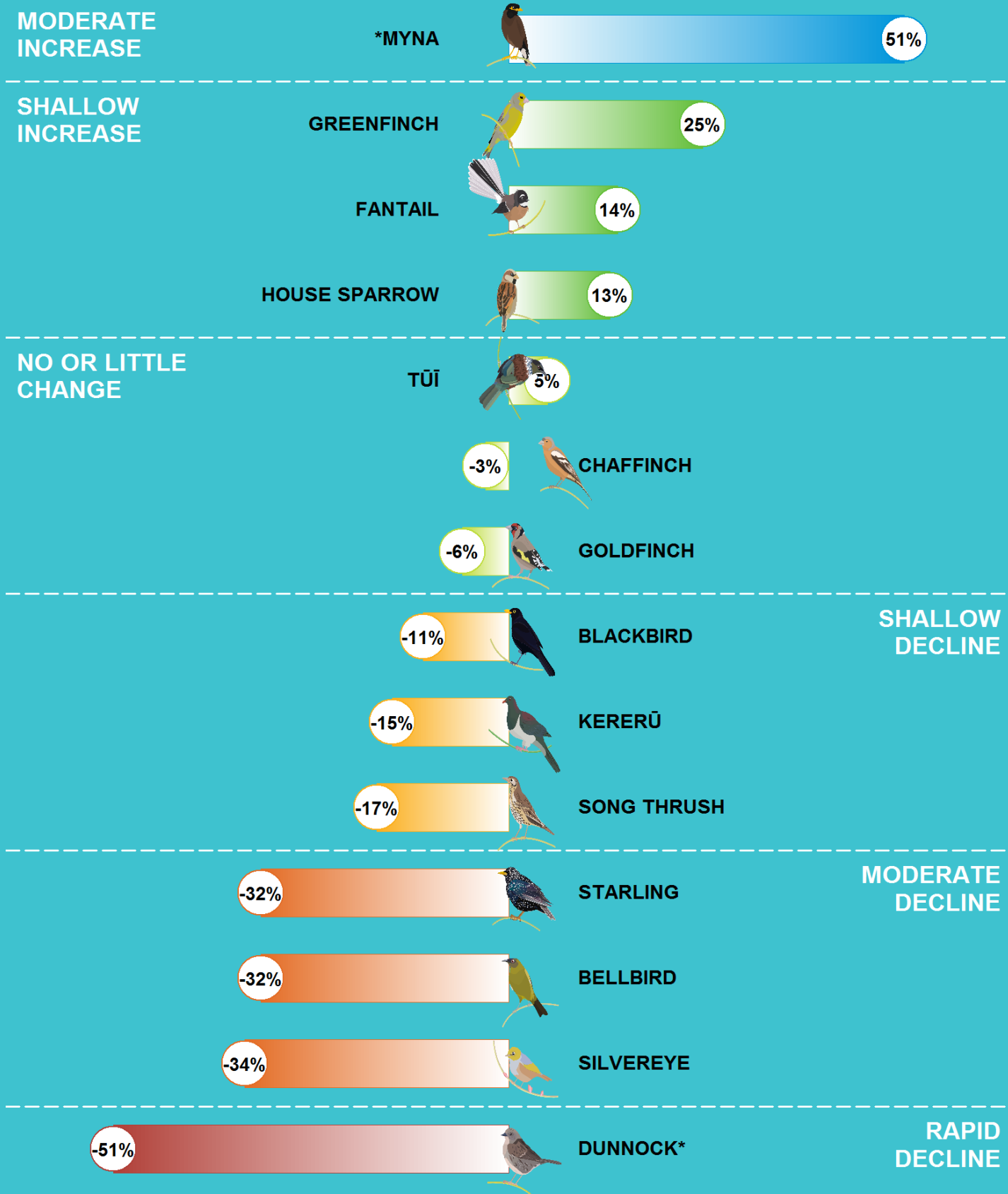


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Whenua
Landcare
Research

How have bird counts changed?

BAY OF PLENTY REGION | 2007-2017

Te Puke Community



Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 18 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



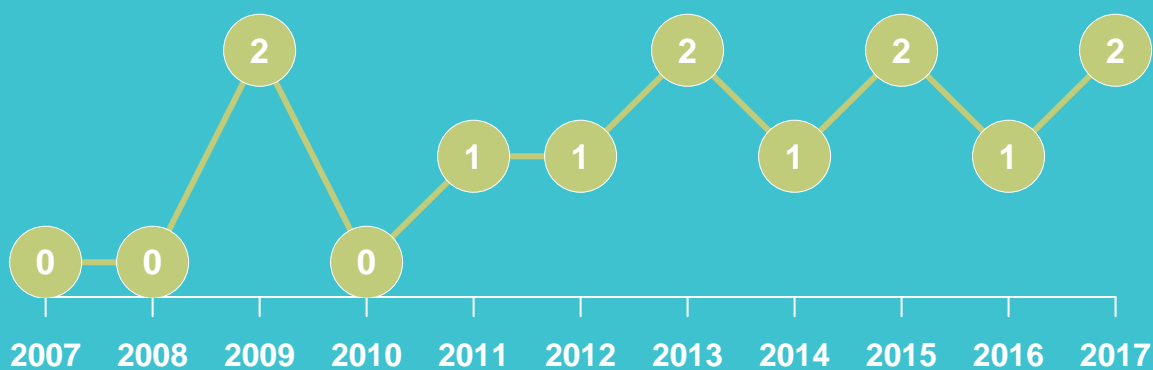
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

WAIHI BEACH

NUMBER OF SURVEYED GARDENS



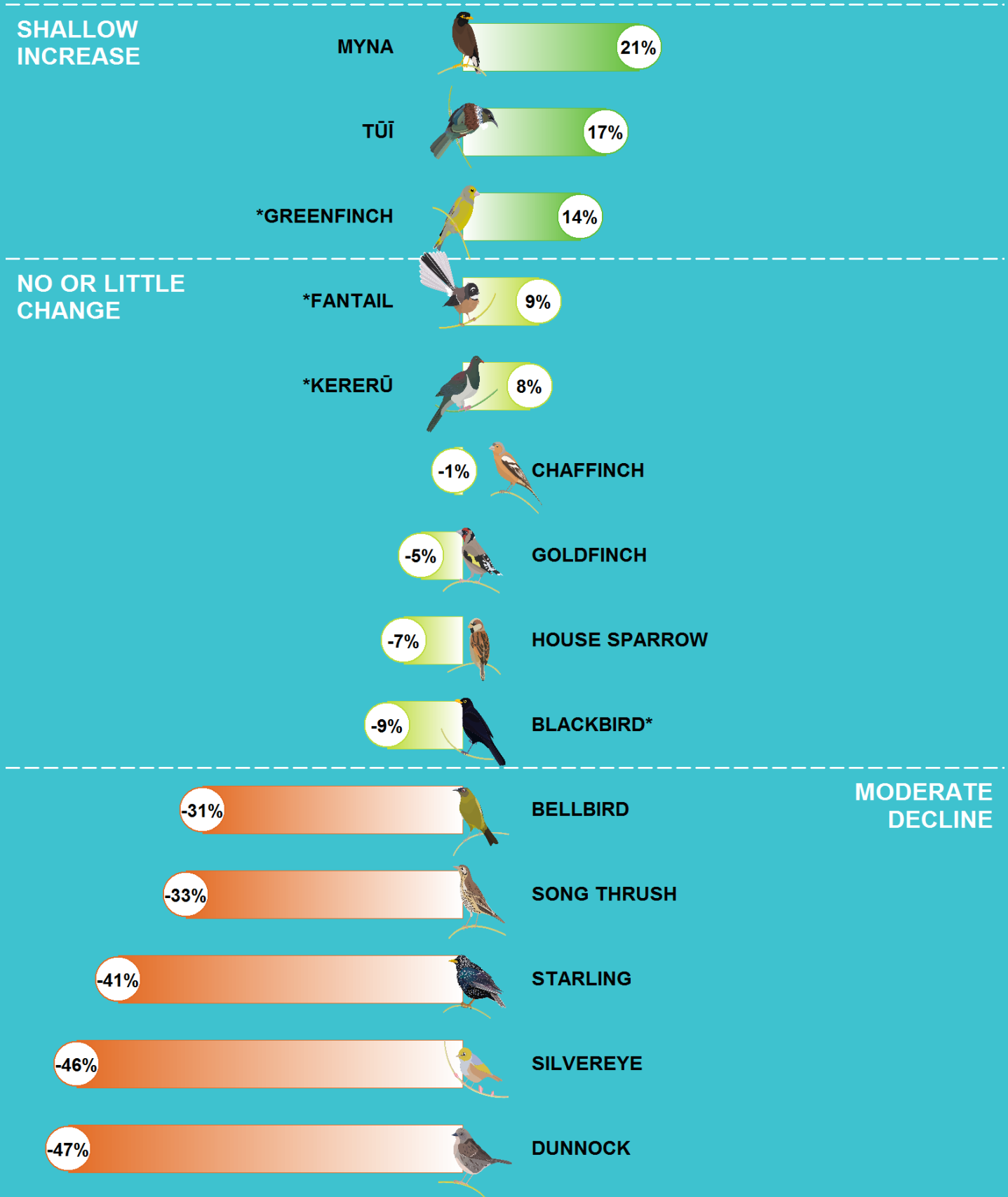
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How have bird counts changed?



BAY OF PLENTY REGION | 2007-2017

Waihi Beach

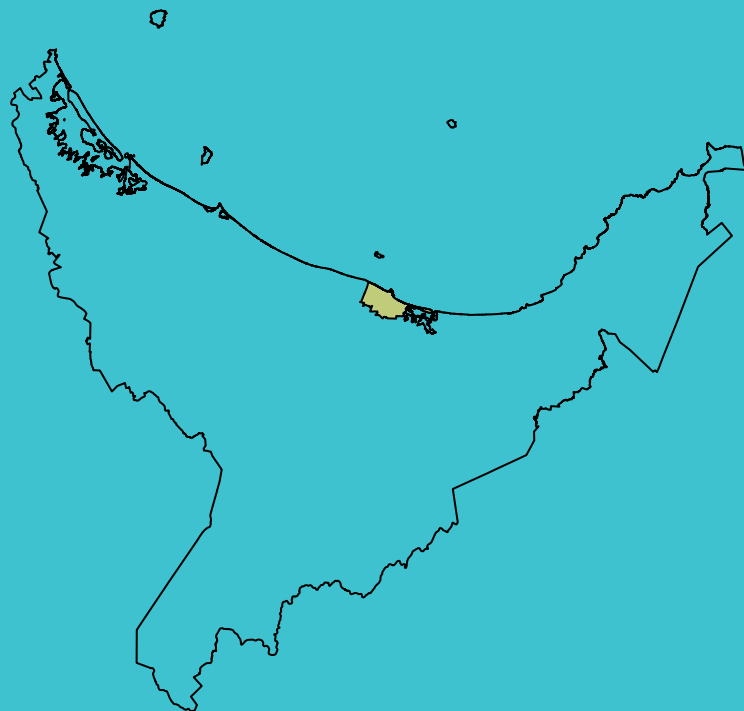


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 12 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



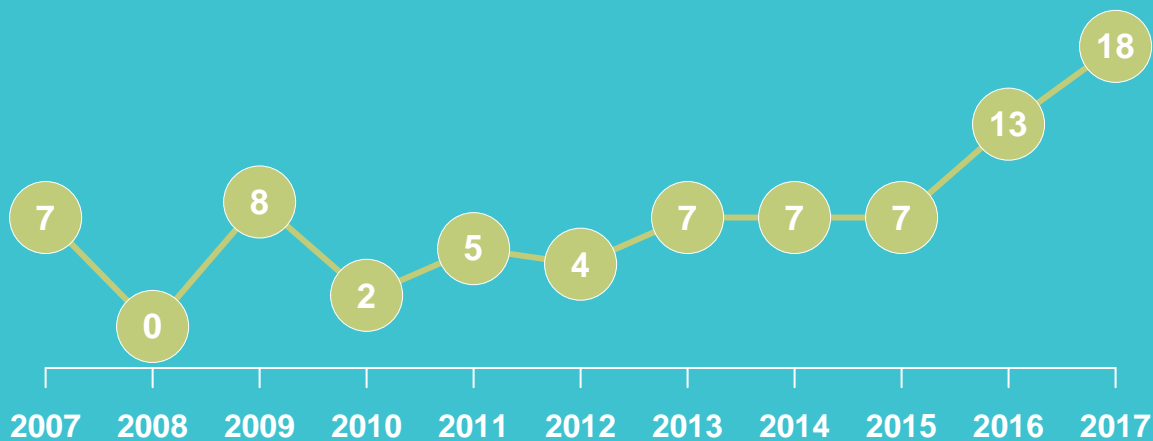
New Zealand
**GARDEN
BIRD
SURVEY**



BAY OF PLENTY REGION

WHAKATANE

NUMBER OF SURVEYED GARDENS

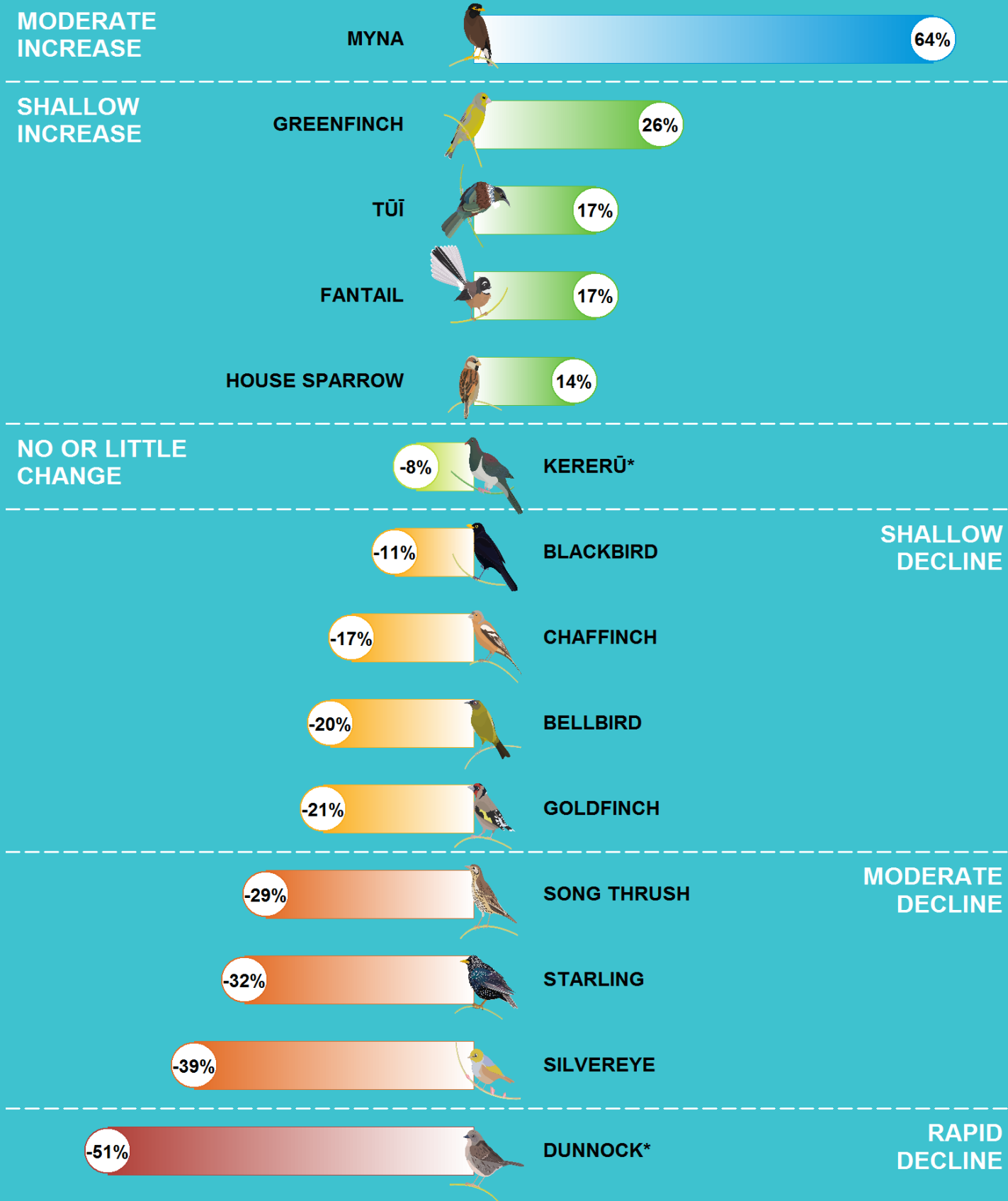


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Landcare
Research

How have bird counts changed?

BAY OF PLENTY REGION | 2007-2017

Whakatane



Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 78 garden surveys in this specific area.

* Based on available data, evidence for these species' estimates is weak.



New Zealand

**GARDEN
BIRD
SURVEY**

2018

30 June to 8 July

Visit our webpage to learn more:
gardenbirdsurvey.landcareresearch.co.nz

This report should be cited as: MacLeod CJ, Spurr EB, Brandt AJ, Green P. 2018.

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