



New Zealand  
**GARDEN  
BIRD  
SURVEY**



## WEST COAST REGION

# State of NZ Garden Birds

Te Āhua o ngā Manu o te Kāri i Aotearoa

# 2017

### 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

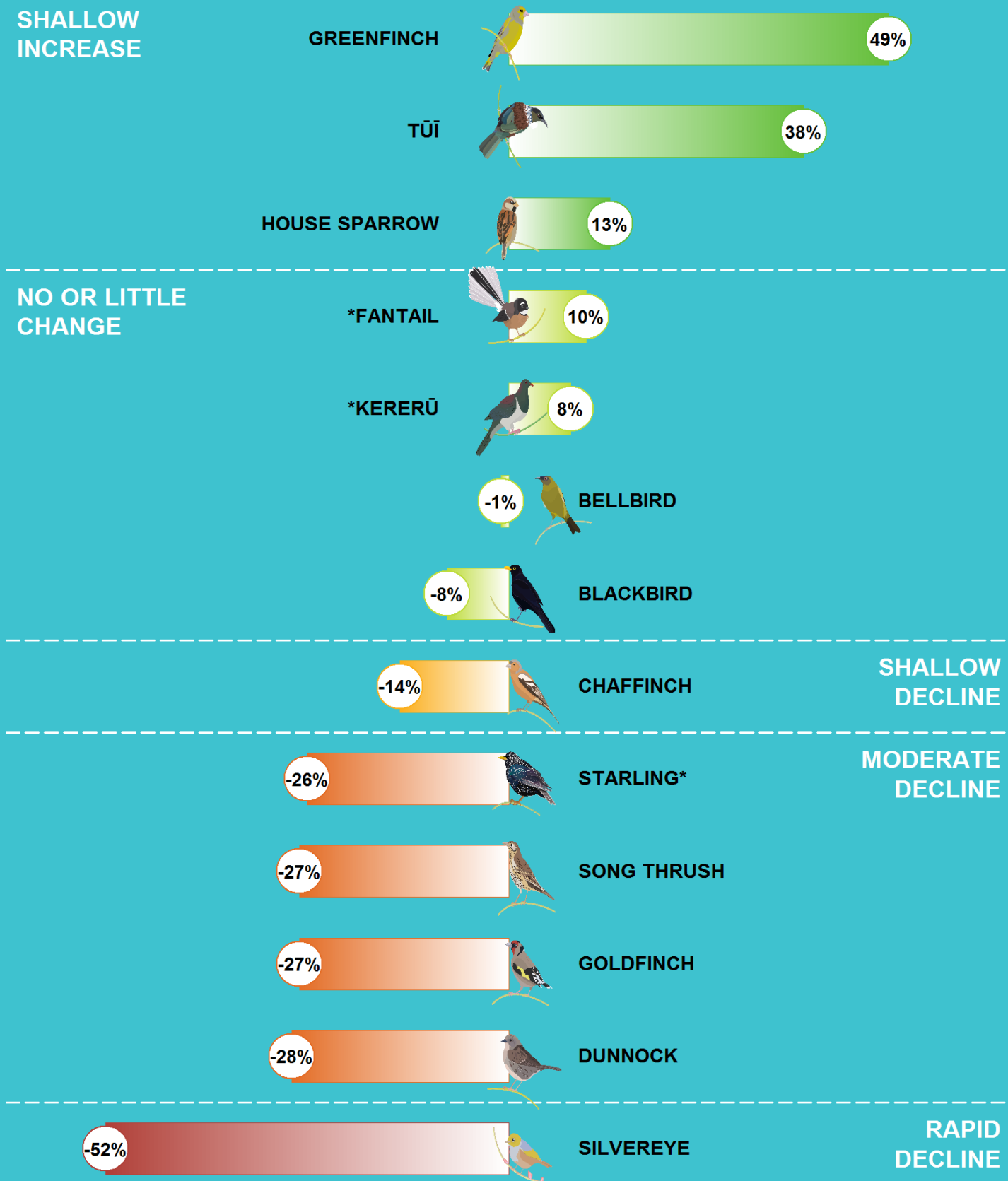
MODERATE INCREASE

RAPID INCREASE

# How have bird counts changed?



## WEST COAST REGION | 2007-2017

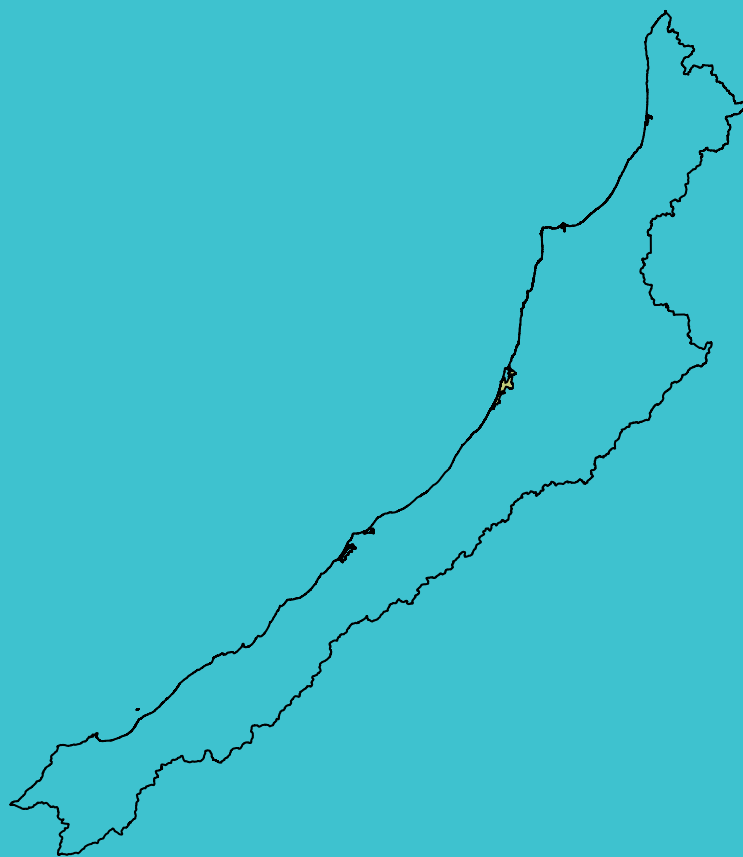


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 278 garden surveys in this specific area.

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

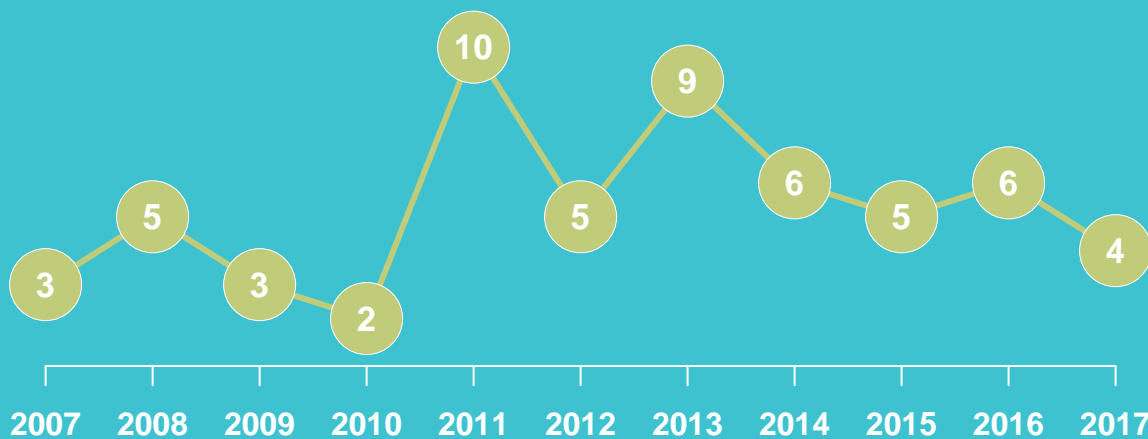


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## WEST COAST REGION GREYMOUTH

NUMBER OF SURVEYED GARDENS



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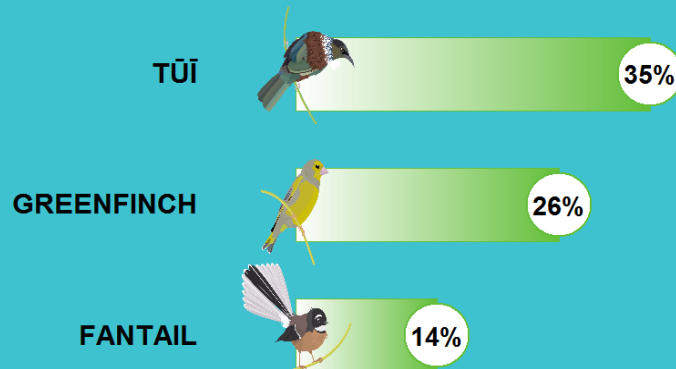
# How have bird counts changed?

WEST COAST REGION | 2007-2017

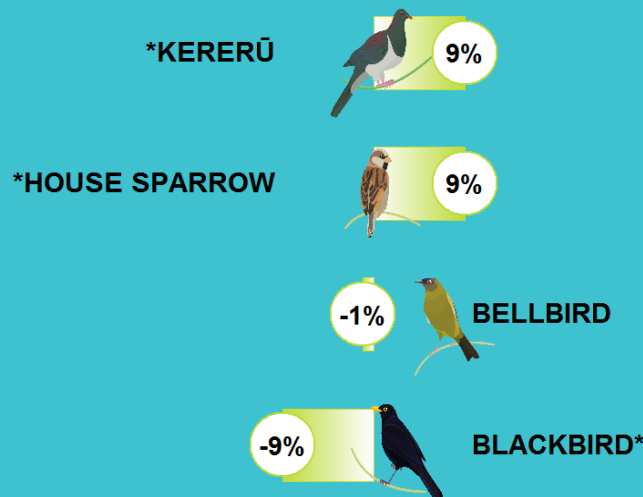
Greymouth



SHALLOW  
INCREASE



NO OR LITTLE  
CHANGE



SHALLOW  
DECLINE



MODERATE  
DECLINE



RAPID  
DECLINE

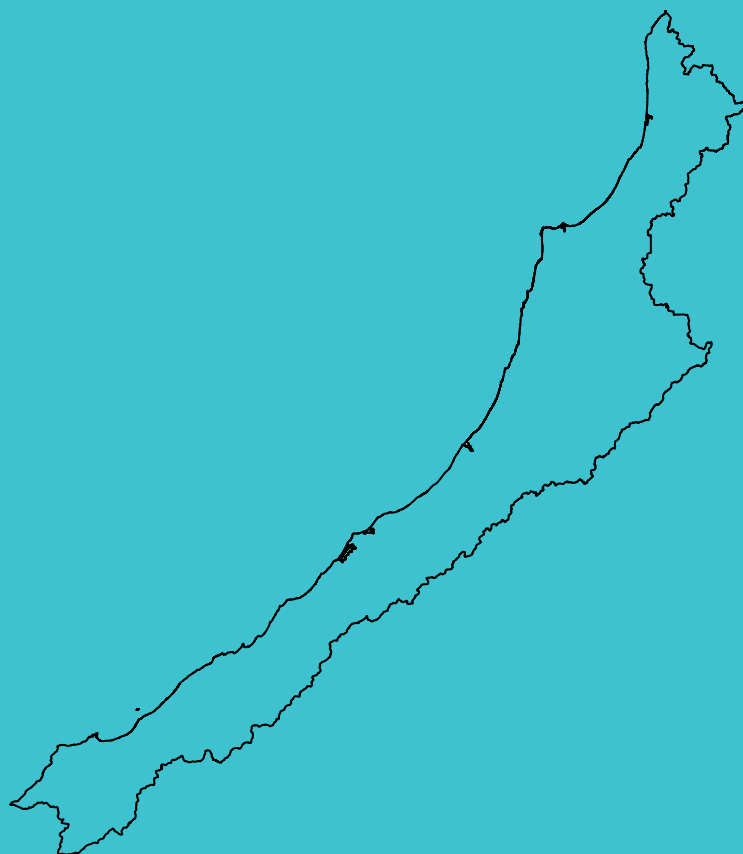


Data source: 31,679 garden surveys nationwide between 2007 and 2017.  
This includes 58 garden surveys in this specific area.

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



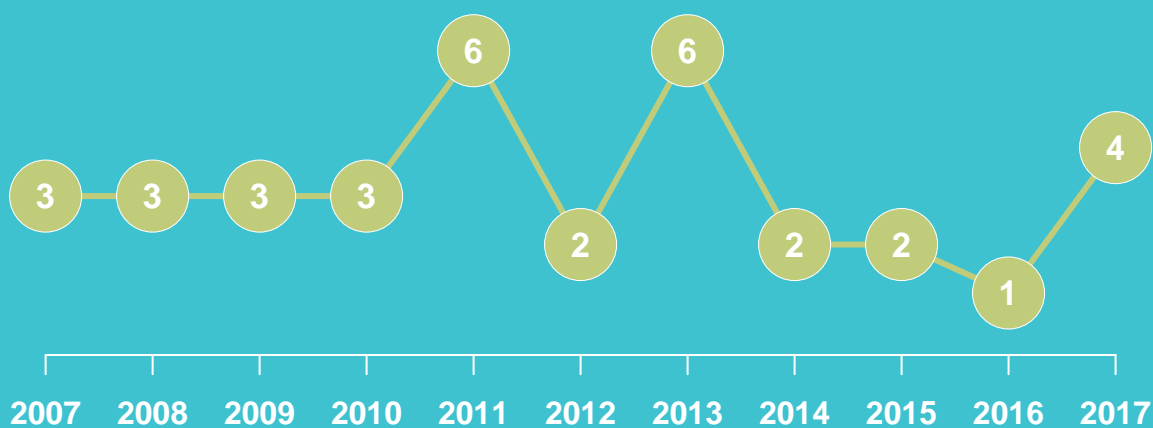
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## WEST COAST REGION

### HOKITIKA

NUMBER OF SURVEYED GARDENS



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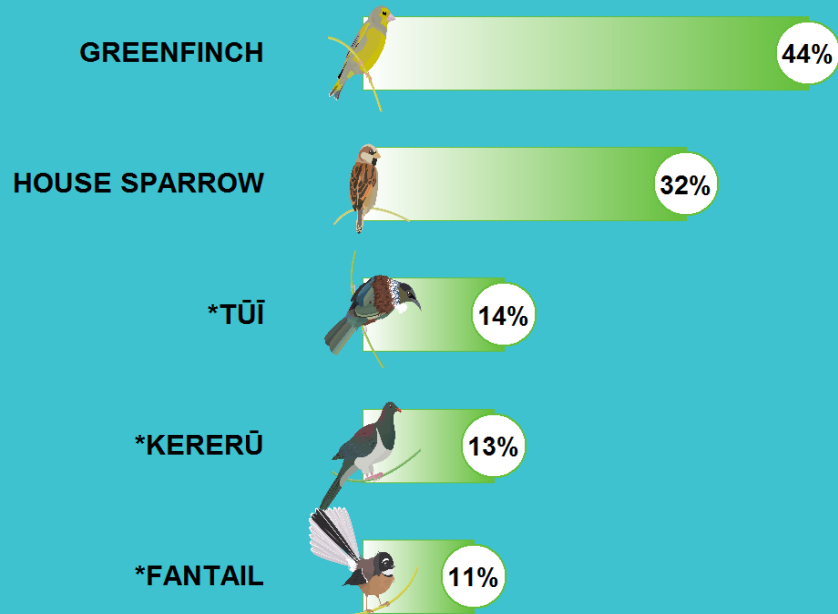
# How have bird counts changed?



WEST COAST REGION | 2007-2017

## Hokitika

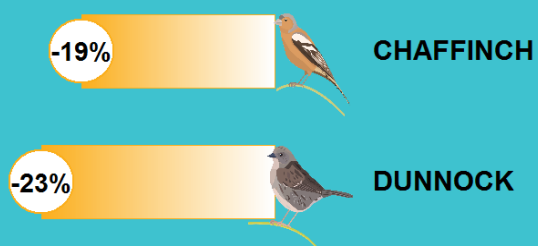
### SHALLOW INCREASE



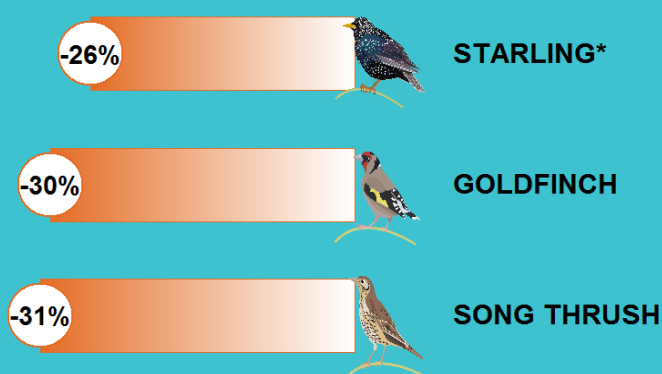
### NO OR LITTLE CHANGE



### SHALLOW DECLINE



### MODERATE DECLINE



### RAPID DECLINE

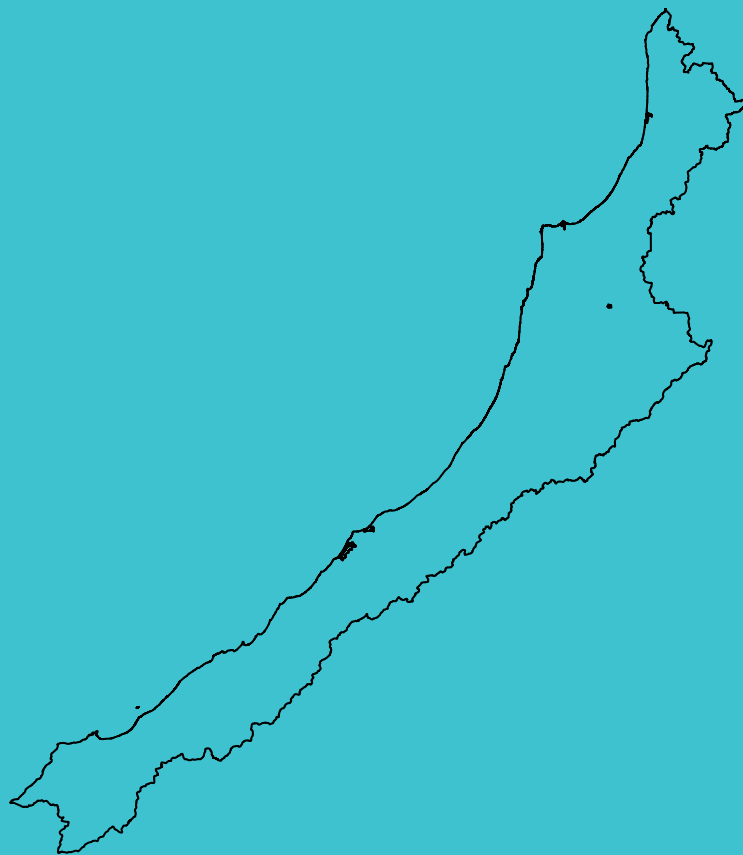


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 35 garden surveys in this specific area.

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



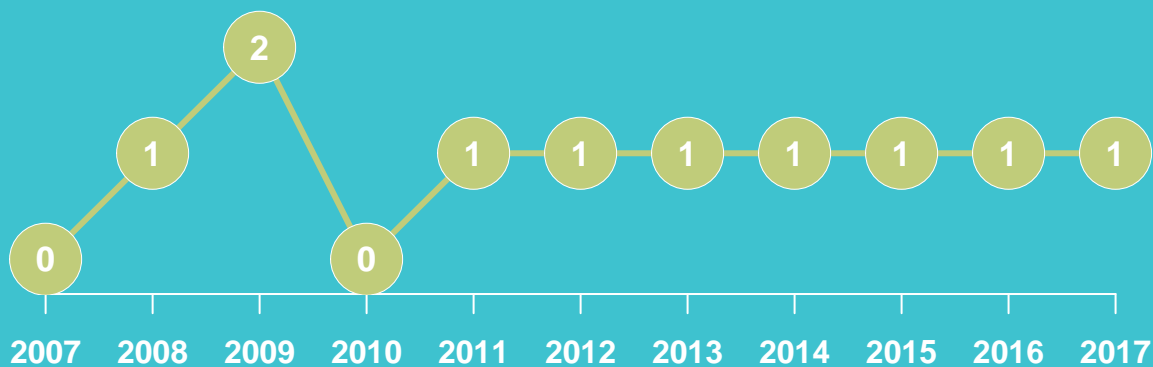
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## WEST COAST REGION

### REEFTON

NUMBER OF SURVEYED GARDENS



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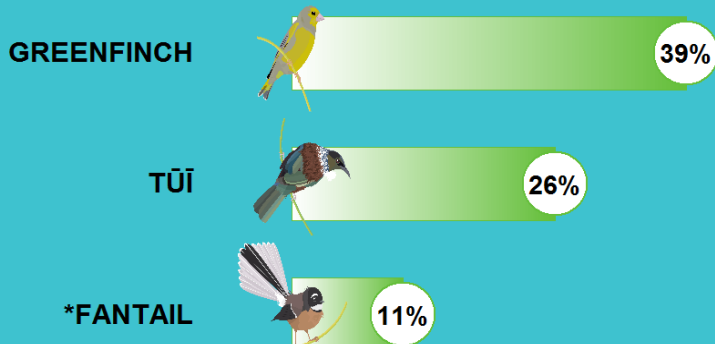
# How have bird counts changed?



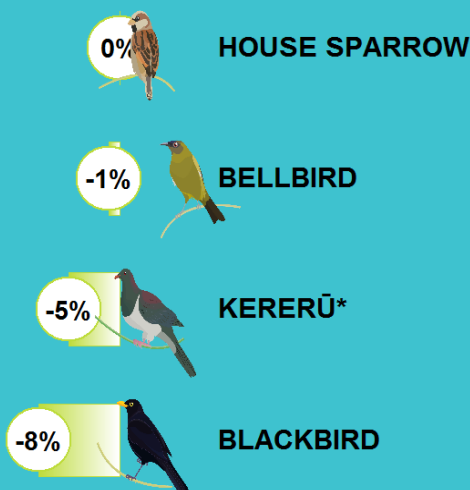
WEST COAST REGION | 2007-2017

## Reefton

### SHALLOW INCREASE



### NO OR LITTLE CHANGE



### SHALLOW DECLINE



### MODERATE DECLINE



### RAPID DECLINE

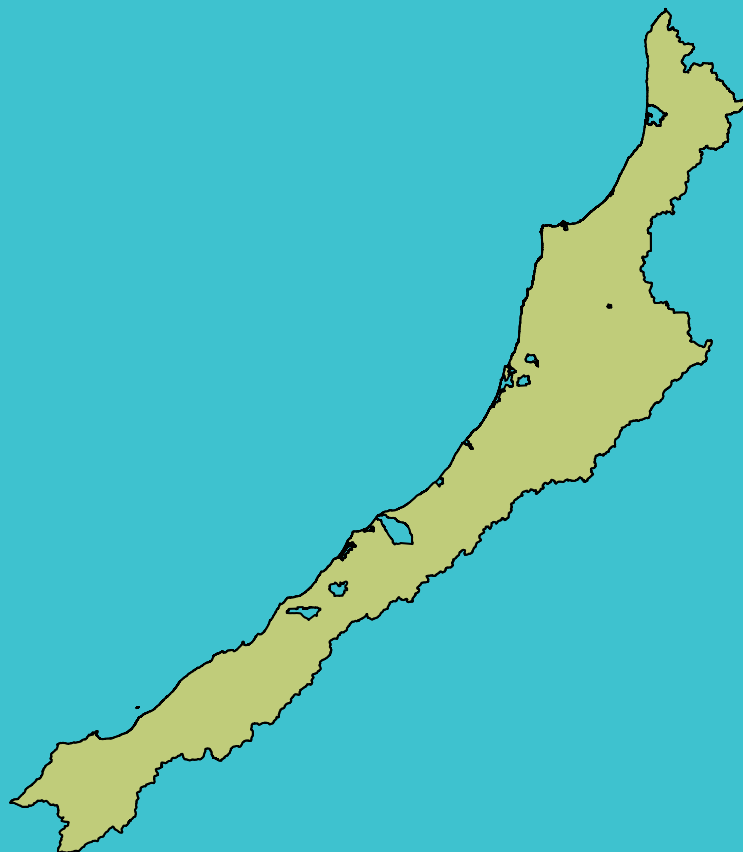


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 10 garden surveys in this specific area.

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



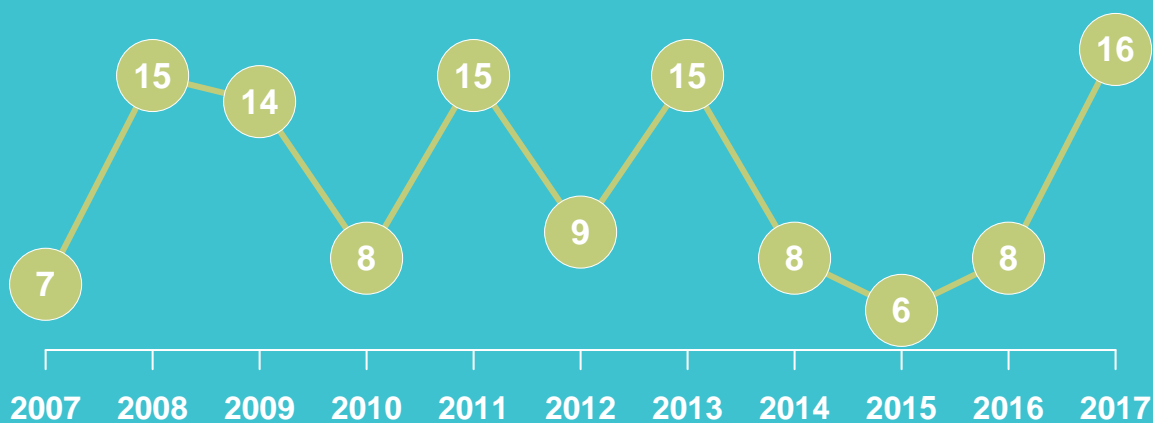
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## WEST COAST REGION

### RURAL (INCL.SOME OFF SHORE ISLANDS)

NUMBER OF SURVEYED GARDENS

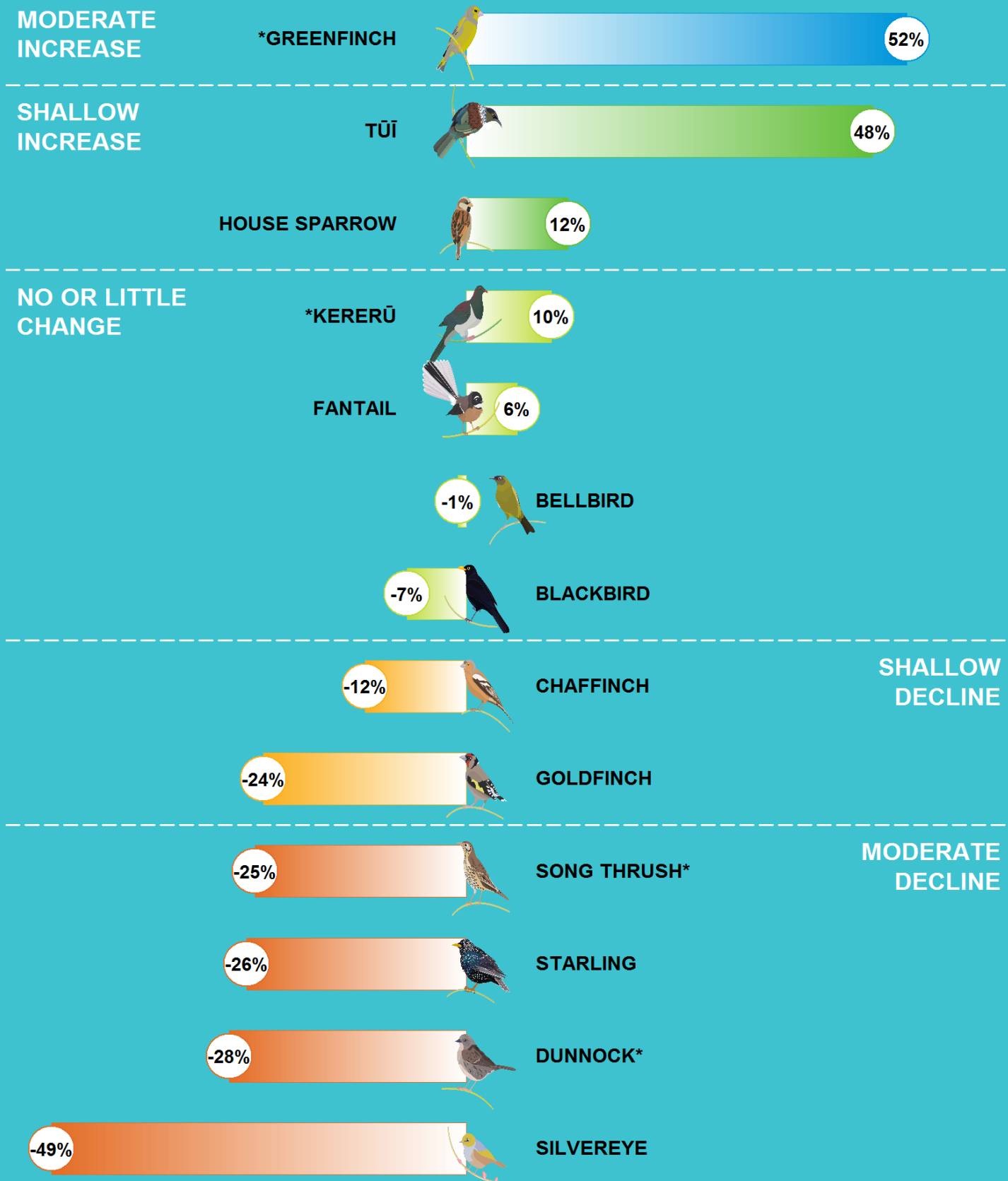


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# How have bird counts changed?



## WEST COAST REGION | 2007-2017 Rural (Incl.some Off Shore Islands)

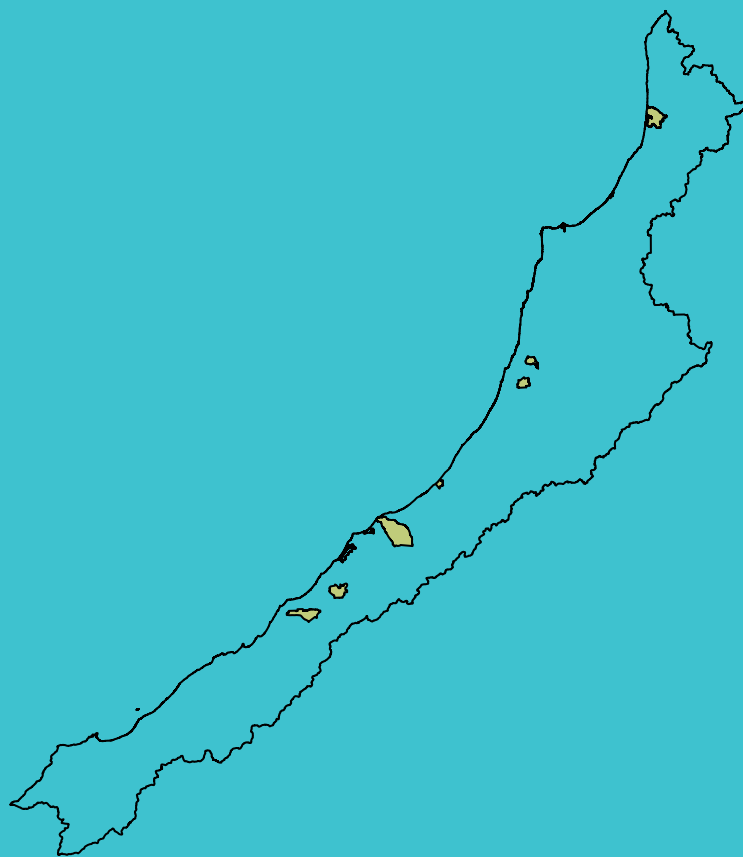


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 121 garden surveys in this specific area.

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

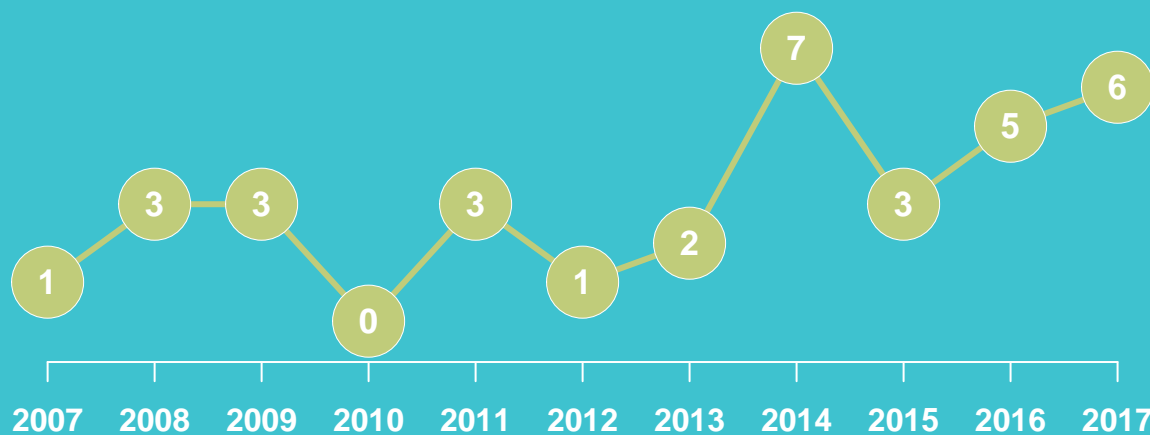


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## WEST COAST REGION RURAL CENTRE

NUMBER OF SURVEYED GARDENS



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Research

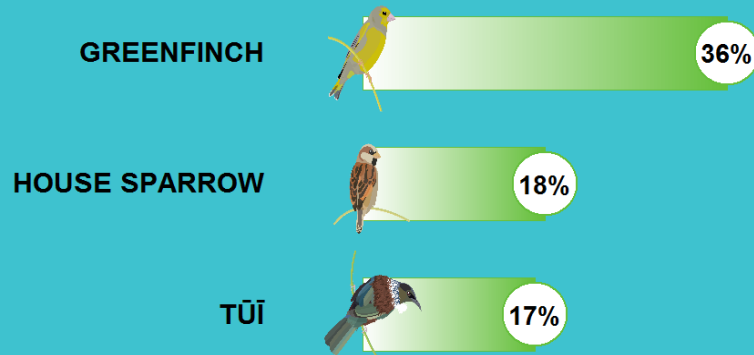
# How have bird counts changed?

WEST COAST REGION | 2007-2017

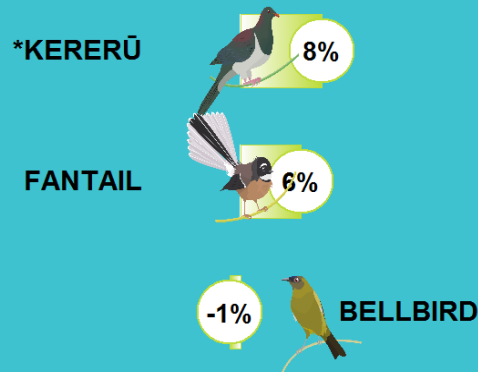
Rural Centre



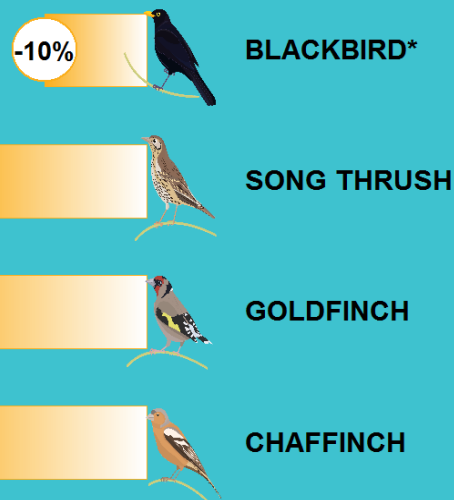
## SHALLOW INCREASE



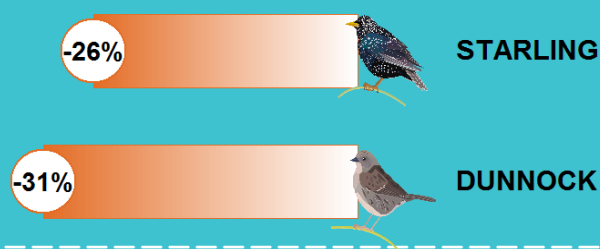
## NO OR LITTLE CHANGE



## SHALLOW DECLINE



## MODERATE DECLINE



## RAPID DECLINE

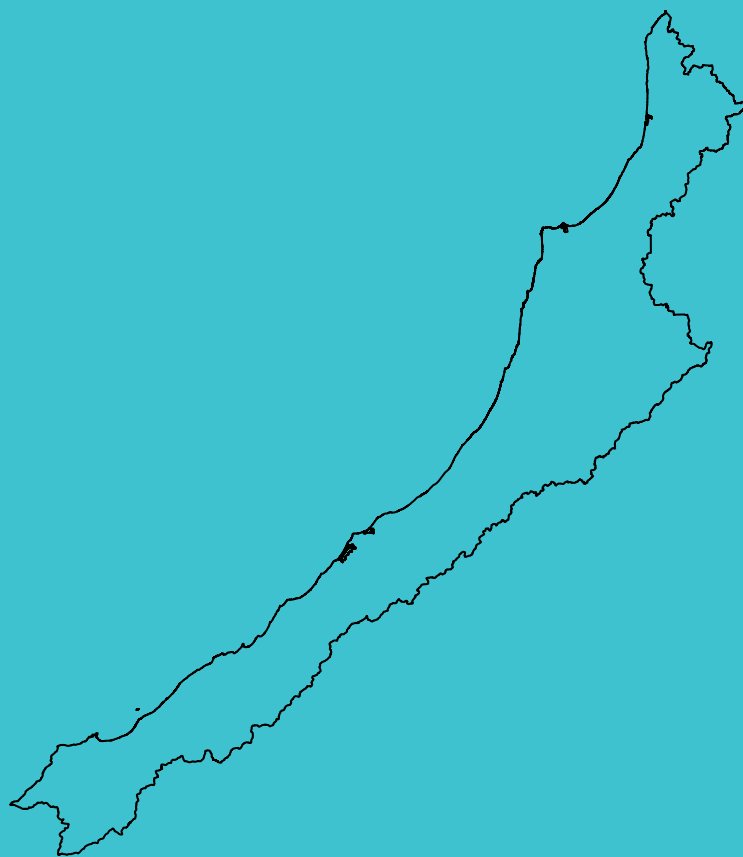


Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 34 garden surveys in this specific area.

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



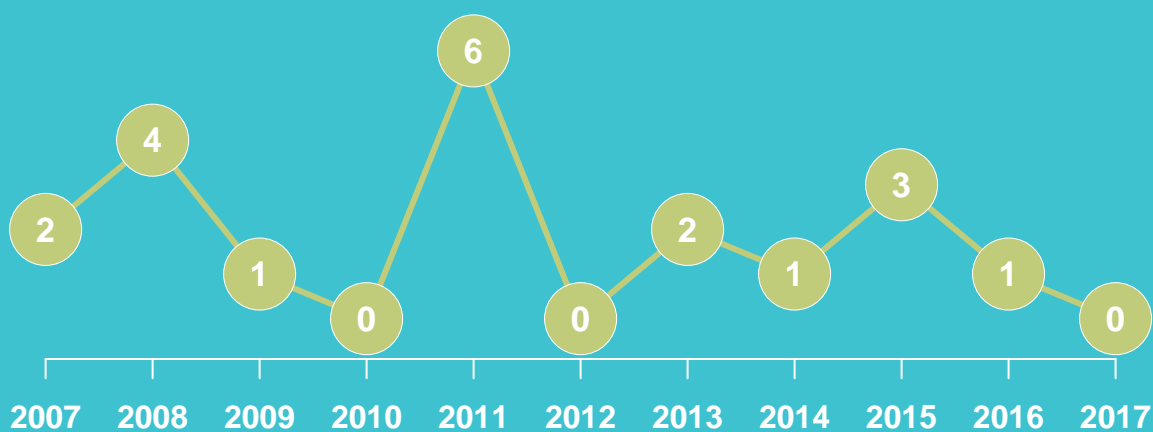
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## WEST COAST REGION

## WESTPORT

NUMBER OF SURVEYED GARDENS



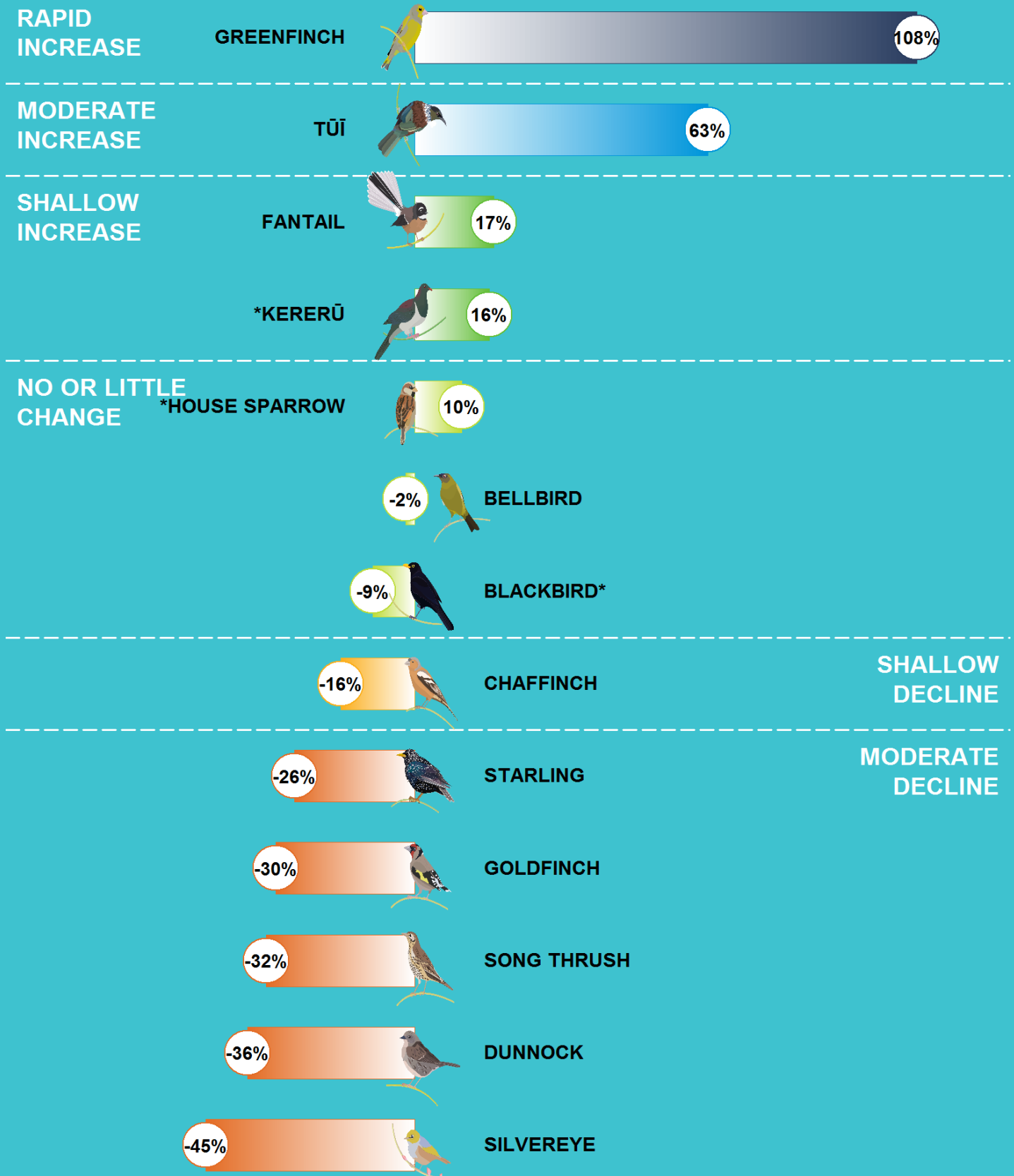
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# How have bird counts changed?



## WEST COAST REGION | 2007-2017

### Westport



Data source: 31,679 garden surveys nationwide between 2007 and 2017. This includes 20 garden surveys in this specific area.

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



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# 2018

30 June to 8 July

**Visit our webpage to learn more:**  
[gardenbirdsurvey.landcareresearch.co.nz](http://gardenbirdsurvey.landcareresearch.co.nz)

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