



Technical report

# **NELSON REGION**

2017

# State of NZ Garden Birds

Te Āhua o ngā Manu o te Kāri i Aotearoa





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 settingand 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 adjacent diagram) to help us identify changes of potential concern or interest.

# Drawing attention to changes in counts of potential concern or interest



Change class for each species, based on the 1001 bootstrap replicates, indicated by double circle. The degree of shading indicates where these replicates lie. Quality rating category for each species shows the strength of evidence for the change class based on the 1001 replicates.

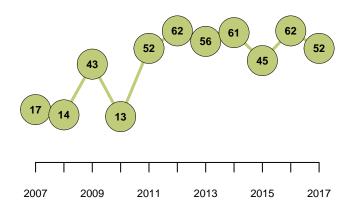


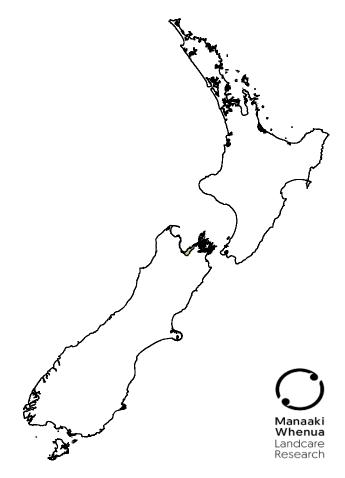
## **NELSON REGION | 2007-2017**



	Median	80% (	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating			
GREENFINCH	36%	17	to	50%	0	0	0	0	0	0	0	00000	
TUI	16%	9	to	22%	0	0	0	0	0	0	0	00000	KŌKŌ
FANTAIL	10%	5	to	14%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
BELLBIRD	4%	-3	to	11%	0	0	0	0	0	0	0	00000	KORIMAKO
HOUSE SPARROW	-4%	-8	to	2%	0	0	0	0	0	0	0	00000	TIU
BLACKBIRD	-14%	-17	to	-11%	0	0	0	0	0	0	0	00000	MANU PANGO
NEW ZEALAND PIGEON	-18%	-33	to	-6%	0	0	0	0	0	0	0	00000	KERERÜ
CHAFFINCH	-19%	-25	to	-13%	0	0	0	0	0	0	0	00000	PAHIRINI
STARLING	-22%	-28	to	-18%	0	0	0	0	0	0	0	00000	TĀRINGI
DUNNOCK	-25%	-34	to	-16%	0			0	0	0	0	•0000	
GOLDFINCH	-28%	-35	to	-22%	0	0		0	0	0	0	•••00	
SONG THRUSH	-35%	-39	to	-31%	0	<b>()</b>	0	0	0	0	0	00000	
SILVEREYE	-52%	-56	to	-49%		0	0	0	0	0	0	00000	TAUHOU

#### **NUMBER OF GARDEN SURVEYS**





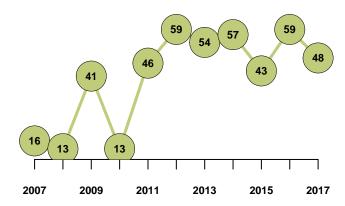
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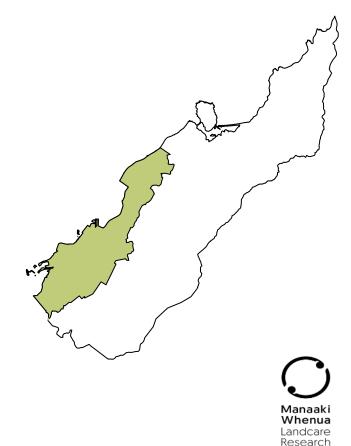


### Nelson

Neison	Median	80% I	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating			
GREENFINCH	36%	17	to	50%	0	0	0	0	0	0	0	00000	
TUI	16%	9	to	22%	0	0	0	0	0	0	0	00000	KŌKŌ
FANTAIL	10%	5	to	14%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
BELLBIRD	4%	-2	to	12%	0	0	0	0	0	0	0	••••	KORIMAKO
HOUSE SPARROW	-4%	-9	to	2%	0	0	0	0	0	0	0	00000	TIU
BLACKBIRD	-14%	-17	to	-11%	0	0	0	0	0	0	0	00000	MANU PANGO
NEW ZEALAND PIGEON	-17%	-34	to	-4%	0	0	0	0	0	0	0	••••	KERERŪ
CHAFFINCH	-19%	-25	to	-13%	0	0	0	0	0	0	0	00000	PAHIRINI
STARLING	-22%	-28	to	-18%	0	0	0	0	0	0	0	00000	TĀRINGI
DUNNOCK	-26%	-34	to	-16%	0	0		0	0	0	0	•0000	
GOLDFINCH	-28%	-35	to	-22%	0	0		0	0	0	0	••••	
SONG THRUSH	-35%	-40	to	-31%	0	<b>()</b>	0	0	0	0	0	00000	
SILVEREYE	-52%	-55	to	-49%		0	0	0	0	0	0	••••	TAUHOU

#### **NUMBER OF GARDEN SURVEYS**





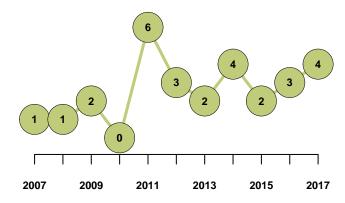
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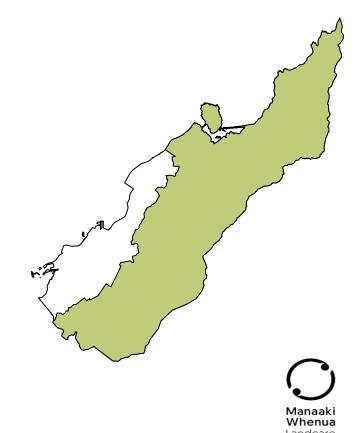


### Rural (Incl.some Off Shore Islands)

	Median	80% Confidence Interval			Rapid decline	Moderate decline	Shallow decline	No or little chang	Shallow increase	Moderate increas	Rapid increase	Quality rating	
HOUSE SPARROW	34%	29	to	41%	0	0	0	0	0	0	0	00000	TIU
GREENFINCH	33%	14	to	48%	0	0	0	0	0	0	0	00000	
TUI	15%	8	to	21%	0	0	0	0	0	0	0	00000	KŌKŌ
FANTAIL	5%	2	to	7%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
BELLBIRD	1%	-1	to	4%	0	0	0	0	0	0	0	00000	KORIMAKO
BLACKBIRD	-16%	-19	to	-13%	0	0	•	0	0	0	0	00000	MANU PANGO
DUNNOCK	-17%	-28	to	-8%	0	0	0	0	0	0	0	00000	
STARLING	-19%	-25	to	-15%	0	0	0	0	0	0	0	00000	TĀRINGI
CHAFFINCH	-20%	-24	to	-15%	0	0	0	0	0	0	0	00000	PAHIRINI
NEW ZEALAND PIGEON	-21%	-30	to	-15%	0	0		0	0	0	0	00000	KERERÜ
SONG THRUSH	-30%	-35	to	-25%	0	0	0	0	0	0	0	00000	
GOLDFINCH	-33%	-39	to	-27%	0	0	0	0	0	0	0	00000	
SILVEREYE	-59%	-63	to	-56%	0	0	0	0	0	0	0	00000	TAUHOU

#### **NUMBER OF GARDEN SURVEYS**





Research

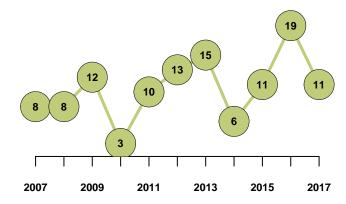
### **TASMAN REGION | 2007-2017**

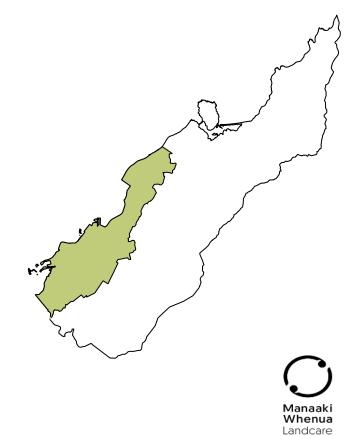


### Nelson

TTO ISON	Median	80% (	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating			
GREENFINCH	68%	49	to	82%	0	0	0	0	0	0	0	00000	
TUI	38%	33	to	43%	0	0	0	0	<b>()</b>	0	0	00000	KŌKŌ
FANTAIL	26%	20	to	31%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
HOUSE SPARROW	17%	12	to	24%	0	0	0	0	<b>()</b>	0	0	00000	TIU
BELLBIRD	10%	4	to	15%	0	0	0	0		0	0	00000	KORIMAKO
STARLING	1%	-4	to	6%	0	0	0	0	0	0	0	00000	TĀRINGI
SONG THRUSH	-10%	-16	to	-5%	0	0	0	0	0	0	0	•0000	
BLACKBIRD	-11%	-14	to	-8%	0	0	0	0	0	0	0	00000	MANU PANGO
CHAFFINCH	-13%	-19	to	-8%	0	0	0	0	0	0	0	00000	PAHIRINI
NEW ZEALAND PIGEON	-16%	-43	to	3%	0	0	0	0	0	0	0	••000	KERERŪ
DUNNOCK	-19%	-29	to	-11%	0	0	0	0	0	0	0	00000	
GOLDFINCH	-29%	-36	to	-23%	0	0	0	0	0	0	0	00000	
SILVEREYE	-30%	-34	to	-27%	0	0	0	0	0	0	0	00000	TAUHOU

#### **NUMBER OF GARDEN SURVEYS**





Research



2018
30 June to 8 July

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

