

Technical report

WEST COAST 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.



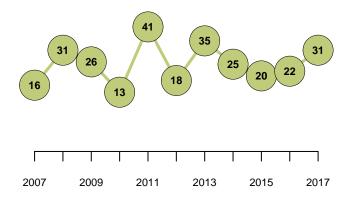


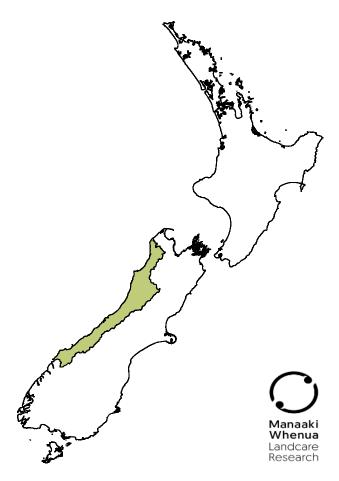
WEST COAST REGION | 2007-2017



	Median		Conf	idence ⁄al	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
GREENFINCH	49%	31	to	62%	0	0	0	0	0		0	00000	
TUI	38%	27	to	47%	0	0	0	0	0	0	0	00000	KŌKŌ
HOUSE SPARROW	13%	9	to	19%	0	0	0	0	0	0	0	00000	TIU
FANTAIL	10%	7	to	13%	0	0	0	0		0	0	00000	PĪWAIWAKA
NEW ZEALAND PIGEON	8%	-3	to	19%	0	0	0		0	0	0	•0000	KERERŪ
BELLBIRD	-1%	-6	to	2%	0	0	0	0	0	0	0	00000	KORIMAKO
BLACKBIRD	-8%	-11	to	-6%	0	0		0	0	0	0	••••	MANU PANGO
CHAFFINCH	-14%	-18	to	-10%	0	0	0	0	0	0	0	00000	PAHIRINI
STARLING	-26%	-31	to	-22%	0	0		0	0	0	0	••000	TĀRINGI
SONG THRUSH	-27%	-31	to	-24%	0	0	0	0	0	0	0	00000	
GOLDFINCH	-27%	-32	to	-22%	0	0		0	0	0	0	••••	
DUNNOCK	-28%	-38	to	-20%	0	0	0	0	0	0	0	••••	
SILVEREYE	-52%	-55	to	-49%		0	0	0	0	0	0	••••	TAUHOU

NUMBER OF GARDEN SURVEYS





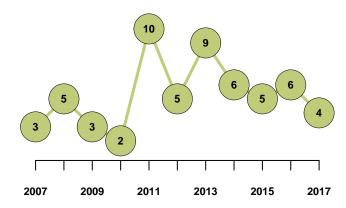
WEST COAST REGION | 2007-2017

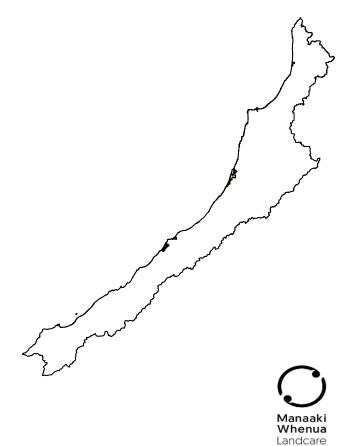
New Zealand GARDEN BIRD SURVEY

Greymouth

	Median		Conf	idence ⁄al	Rapid decline	Moderate declin	Shallow decline	No or little chang	Shallow increase	Moderate increa	Rapid increase	Quality rating	
TUI	35%	19	to	46%	0	0	0	0	0	0	0	00000	KŌKŌ
GREENFINCH	26%	8	to	39%	0	0	0	0	0	0	0	00000	
FANTAIL	14%	9	to	19%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
NEW ZEALAND PIGEON	9%	-12	to	26%	0	0	0	0		0	0	00000	KERERÜ
HOUSE SPARROW	9%	5	to	15%	0	0	0			0	0	00000	TIU
BELLBIRD	-1%	-7	to	3%	0	0	0	0	0	0	0	00000	KORIMAKO
BLACKBIRD	-9%	-11	to	-6%	0	0		0	0	0	0	••000	MANU PANGO
CHAFFINCH	-13%	-17	to	-8%	0	0	0	0	0	0	0	00000	PAHIRINI
STARLING	-22%	-28	to	-18%	0	0	0	0	0	0	0	00000	TĀRINGI
GOLDFINCH	-29%	-35	to	-24%	0	0	0	0	0	0	0	00000	
SONG THRUSH	-30%	-34	to	-25%	0	0	0	0	0	0	0	00000	
DUNNOCK	-32%	-42	to	-22%	0	0	0	0	0	0	0	00000	
SILVEREYE	-55%	-58	to	-52%	0	0	0	0	0	0	0	00000	TAUHOU

NUMBER OF GARDEN SURVEYS





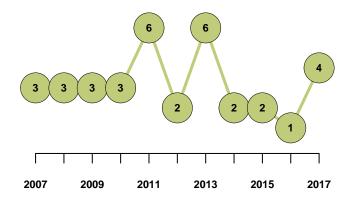
WEST COAST REGION | 2007-2017

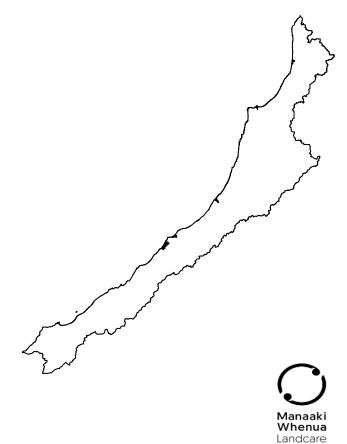


Hokitika

	Median		Conf nter	idence ⁄al	Rapid decline	Moderate decline	Shallow decline	No or little chang	Shallow increase	Moderate increas	Rapid increase	Quality rating	
GREENFINCH	44%	25	to	58%	0	0	0	0	0	0	0	00000	
HOUSE SPARROW	32%	28	to	39%	0	0	0	0	0	0	0	00000	TIU
TUI	14%	0	to	26%	0	0	0	0		0	0	••000	KŌKŌ
NEW ZEALAND PIGEON	13%	-15	to	33%	0	0	0	0	0	0	0	•0000	KERERŪ
FANTAIL	11%	6	to	16%	0	0	0			0	0	00000	PĪWAIWAKA
BELLBIRD	-1%	-6	to	2%	0	0	0	0	0	0	0	00000	KORIMAKO
BLACKBIRD	-9%	-12	to	-6%	0	0		0	0	0	0	••000	MANU PANGO
CHAFFINCH	-19%	-24	to	-14%	0	0	0	0	0	0	0	00000	PAHIRINI
DUNNOCK	-23%	-34	to	-13%	0	0	0	0	0	0	0	00000	
STARLING	-26%	-32	to	-22%	0	0	0	0	0	0	0	••000	TĀRINGI
GOLDFINCH	-30%	-36	to	-25%	0	0	0	0	0	0	0	00000	
SONG THRUSH	-31%	-36	to	-26%	0	0	0	0	0	0	0	00000	
SILVEREYE	-55%	-58	to	-52%	0	0	0	0	0	0	0	00000	TAUHOU

NUMBER OF GARDEN SURVEYS





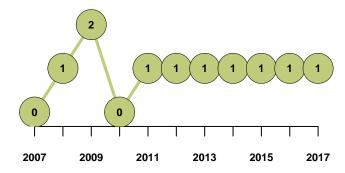
WEST COAST REGION | 2007-2017

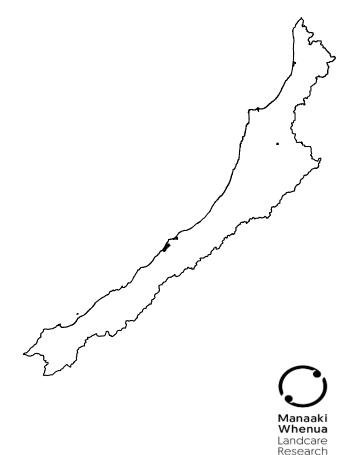
New Zealand GARDEN BIRD SURVEY

Reefton

	Median		Conf nterv	idence ⁄al	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increas	Rapid increase	Quality rating	
GREENFINCH	39%	18	to	54%	0	0	0	0	0	0	0	•••••	
TUI	26%	8	to	39%	0	0	0	0	0	0	0	00000	KŌKŌ
FANTAIL	11%	7	to	15%	0	0	0		0	0	0	••000	PĪWAIWAKA
HOUSE SPARROW	0%	-4	to	5%	0	0	0	0	0	0	0	00000	TIU
BELLBIRD	-1%	-9	to	3%	0	0	0	0	0	0	0	00000	KORIMAKO
NEW ZEALAND PIGEON	-5%	-38	to	13%	0	0	0	0	0	0	0	00000	KERERŪ
BLACKBIRD	-8%	-11	to	-5%	0	0	0	0	0	0	0	••••	MANU PANGO
CHAFFINCH	-13%	-19	to	-8%	0	0	0	0	0	0	0	00000	PAHIRINI
SONG THRUSH	-25%	-30	to	-21%	0	0		0	0	0	0	•0000	
GOLDFINCH	-28%	-34	to	-23%	0	0	0	0	0	0	0	••••0	
DUNNOCK	-34%	-44	to	-24%	0	0	0	0	0	0	0	00000	
STARLING	-45%	-51	to	-41%	0	0	0	0	0	0	0	00000	TĀRINGI
SILVEREYE	-61%	-65	to	-58%	0	0	0	0	0	0	0	00000	TAUHOU

NUMBER OF GARDEN SURVEYS





WEST COAST REGION | 2007-2017

Rural (Incl.some Off Shore Islands)



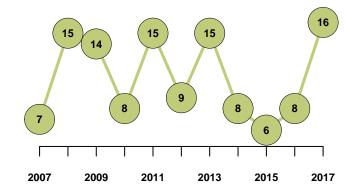
	Median		Conf	idence ⁄al	Rapid decline	Moderate declin	Shallow decline	No or little chan	Shallow increas	Moderate increa	Rapid increase	Quality rating	
GREENFINCH	52%	33	to	66%	0	0	0	0	0	0	0	•0000	
TUI	48%	38	to	56%	0	0	0	0			0	00000	KŌKŌ
HOUSE SPARROW	12%	8	to	18%	0	0	0	0	0	0	0	••••	TIU
NEW ZEALAND PIGEON	10%	-3	to	21%	0	0	0	0		0	0	00000	KERERŪ
FANTAIL	6%	4	to	8%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
BELLBIRD	-1%	-4	to	2%	0	0	0	0	0	0	0	00000	KORIMAKO
BLACKBIRD	-7%	-10	to	-5%	0	0	0	0	0	0	0	00000	MANU PANGO
CHAFFINCH	-12%	-16	to	-8%	0	0	0	0	0	0	0	00000	PAHIRINI
GOLDFINCH	-24%	-29	to	-19%	0	0		0	0	0	0	00000	
SONG THRUSH	-25%	-29	to	-21%	0	0		0	0	0	0	•0000	
STARLING	-26%	-32	to	-22%	0	0		0	0	0	0	••••	TĀRINGI
DUNNOCK	-28%	-37	to	-18%	0	0		0	0	0	0	••000	
SILVEREYE	-49%	-53	to	-47%		0	0	0	0	0	0	00000	TAUHOU

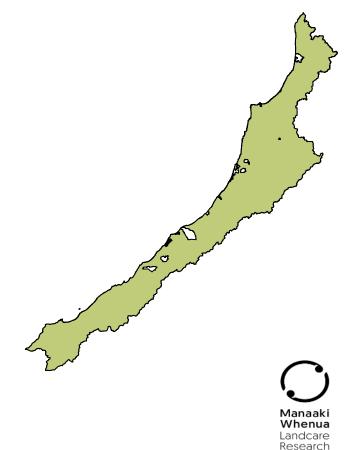
NUMBER OF GARDEN SURVEYS

New Zealand

GARDEN

SURVEY





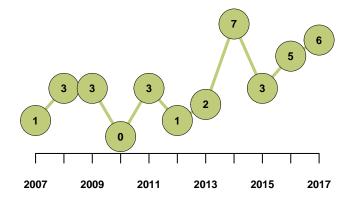
WEST COAST REGION | 2007-2017

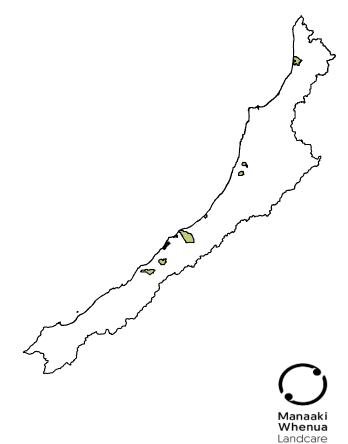
New Zealand GARDEN BIRD SURVEY

Rural Centre

	Median		Conf	idence ⁄al	Rapid decline	Moderate decline	Shallow decline	No or little chang	Shallow increase	Moderate increas	Rapid increase	Quality rating	
GREENFINCH	36%	17	to	49%	0	0	0	0	0	0	0	00000	
HOUSE SPARROW	18%	14	to	24%	0	0	0	0	()	0	0	00000	TIU
TUI	17%	7	to	25%	0	0	0	0	0	0	0	00000	KŌKŌ
NEW ZEALAND PIGEON	8%	-7	to	20%	0	0	0			0	0	00000	KERERŨ
FANTAIL	6%	4	to	8%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
BELLBIRD	-1%	-6	to	2%	0	0	0	0	0	0	0	00000	KORIMAKO
BLACKBIRD	-10%	-13	to	-8%	0	0	0		0	0	0	••000	MANU PANGO
SONG THRUSH	-19%	-23	to	-15%	0	0	0	0	0	0	0	00000	
GOLDFINCH	-23%	-29	to	-18%	0	0	0	0	0	0	0	00000	
CHAFFINCH	-23%	-26	to	-19%	0	0		0	0	0	0	00000	PAHIRINI
STARLING	-26%	-32	to	-22%	0	0		0	0	0	0	••••0	TĀRINGI
DUNNOCK	-31%	-41	to	-21%	0	0	0	0	0	0	0	00000	
SILVEREYE	-56%	-59	to	-53%	0	0	0	0	0	0	0	00000	TAUHOU

NUMBER OF GARDEN SURVEYS





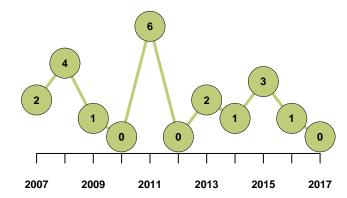
WEST COAST REGION | 2007-2017

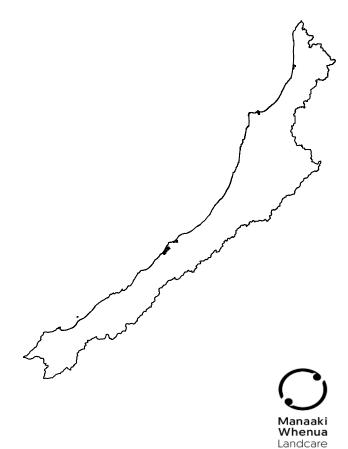


Westport

	Median		Conf	fidence val	Rapid decline	Moderate declin	Shallow decline	No or little chan	Shallow increas	Moderate increa	Rapid increase	Quality rating	
GREENFINCH	108%	91	to	121%	0	0	0	0	0	0	()	••••0	
TUI	63%	46	to	76%	0	0	0	0	0	0	0	00000	KŌKŌ
FANTAIL	17%	11	to	22%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
NEW ZEALAND PIGEON	16%	-6	to	33%	0	0	0	0	0	0	0	••000	KERERŪ
HOUSE SPARROW	10%	6	to	16%	0	0	0	0		0	0	00000	TIU
BELLBIRD	-2%	-14	to	7%	0	0	0	0	0	0	0	••••	KORIMAKO
BLACKBIRD	-9%	-12	to	-6%	0	0		0	0	0	0	••000	MANU PANGO
CHAFFINCH	-16%	-21	to	-12%	0	0	0	0	0	0	0	00000	PAHIRINI
STARLING	-26%	-33	to	-22%	0	0		0	0	0	0	00000	TĀRINGI
GOLDFINCH	-30%	-36	to	-25%	0	0	0	0	0	0	0	00000	
SONG THRUSH	-32%	-37	to	-27%	0	0	0	0	0	0	0	00000	
DUNNOCK	-36%	-46	to	-26%	0	0	0	0	0	0	0	00000	
SILVEREYE	-45%	-48	to	-41%	0	0	0	0	0	0	0	00000	TAUHOU

NUMBER OF GARDEN SURVEYS







2018
30 June to 8 July

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

