



Technical report

TARANAKI 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.

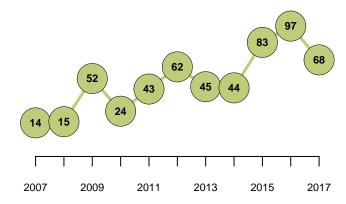


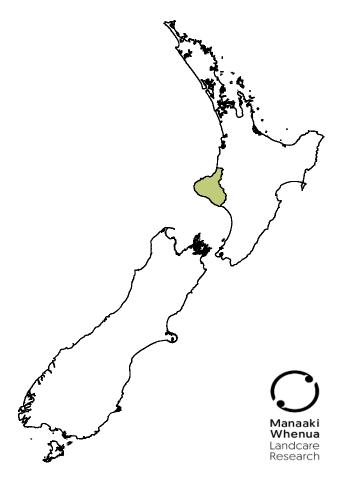


TARANAKI REGION | 2007-2017



	Median		Conf	idence val	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
TUI	40%	32	to	46%	0	0	0	0	()	0	0	00000	KŌKŌ
GREENFINCH	36%	16	to	49%	0	0	0	0	0	0	0	00000	
FANTAIL	8%	4	to	11%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
NEW ZEALAND PIGEON	2%	-8	to	13%	0	0	0	0	0	0	0	00000	KERERÜ
HOUSE SPARROW	0%	-3	to	7%	0	0	0	0	0	0	0	00000	TIU
MYNA	-3%	-18	to	9%	0	0	0	0	0	0	0	••000	MAINA
BLACKBIRD	-9%	-11	to	-6%	0	0	0	0	0	0	0	00000	MANU PANGO
BELLBIRD	-12%	-29	to	3%	0	0	0	0	0	0	0	••000	KORIMAKO
CHAFFINCH	-14%	-18	to	-10%	0	0	0	0	0	0	0	00000	PAHIRINI
SONG THRUSH	-30%	-34	to	-27%	0	0	0	0	0	0	0	00000	
STARLING	-32%	-38	to	-28%	0	0	0	0	0	0	0	00000	TĀRINGI
DUNNOCK	-32%	-41	to	-24%	0	0	0	0	0	0	0	00000	
GOLDFINCH	-43%	-49	to	-38%	0	0	0	0	0	0	0	00000	
SILVEREYE	-48%	-51	to	-45%	0	0	0	0	0	0	0	00000	TAUHOU



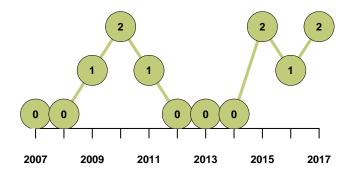


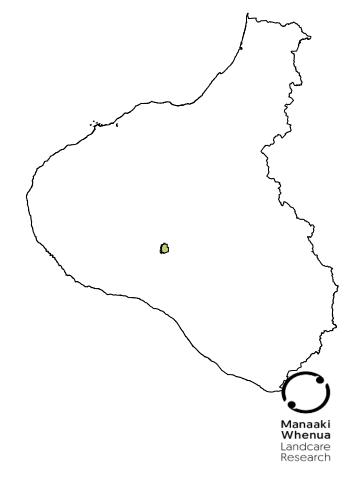
TARANAKI REGION | 2007-2017



Eltham

	Median		Conf	idence ⁄al	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increas	Rapid increase	Quality rating	
GREENFINCH	78%	56	to	92%	0	0	0	0	0	0	0	00000	
TUI	43%	31	to	53%	0	0	0	0		0	0	00000	KŌKŌ
NEW ZEALAND PIGEON	19%	-14	to	43%	0	0	0	0		0	0	••000	KERERŪ
FANTAIL	7%	3	to	11%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
CHAFFINCH	0%	-7	to	4%	0	0	0	0	0	0	0	00000	PAHIRINI
HOUSE SPARROW	-2%	-6	to	4%	0	0	0	0	0	0	0	00000	TIU
BELLBIRD	-12%	-31	to	4%	0	0	0	0	0	0	0	•0000	KORIMAKO
MYNA	-13%	-48	to	13%	0	0	0	0	0	0	0	•0000	MAINA
BLACKBIRD	-14%	-17	to	-12%	0	0	0	0	0	0	0	00000	MANU PANGO
SONG THRUSH	-15%	-20	to	-11%	0	0	0	0	0	0	0	00000	
GOLDFINCH	-32%	-38	to	-27%	0	0	0	0	0	0	0	00000	
STARLING	-33%	-39	to	-29%	0	0	0	0	0	0	0	00000	TĀRINGI
DUNNOCK	-35%	-44	to	-26%	0	0	0	0	0	0	0	00000	
SILVEREYE	-55%	-58	to	-52%	0	0	0	0	0	0	0	00000	TAUHOU



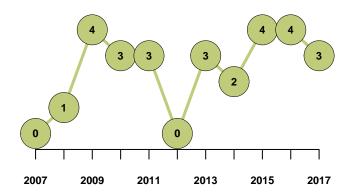


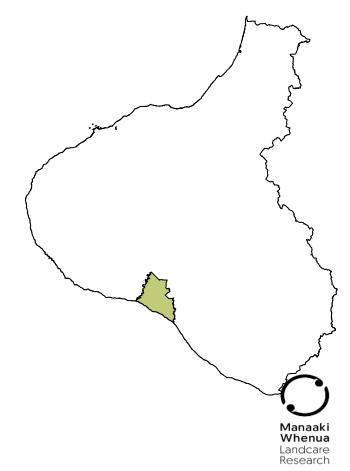
TARANAKI REGION | 2007-2017



Hawera

	Median		Conf nterv	idence ⁄al	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increas	Rapid increase	Quality rating	
TUI	84%	69	to	96%	0	0	0	0	0	0	0	00000	KŌKŌ
GREENFINCH	68%	49	to	80%	0	0	0	O	0	0	0	00000	
NEW ZEALAND PIGEON	31%	-4	to	54%	0	0	0	0		0	0	00000	KERERÜ
FANTAIL	11%	6	to	15%	0	0	0		0	0	0	••000	PĪWAIWAKA
HOUSE SPARROW	-5%	-9	to	1%	0	0	0	0	0	0	0	00000	TIU
CHAFFINCH	-6%	-11	to	-2%	0	0	0	0	0	0	0	00000	PAHIRINI
BLACKBIRD	-8%	-11	to	-5%	0	0	0	0	0	0	0	00000	MANU PANGO
MYNA	-10%	-55	to	19%	0	0	0	0	0	0	0	•0000	MAINA
BELLBIRD	-13%	-32	to	3%	0	0	0	0	0	0	0	••000	KORIMAKO
SONG THRUSH	-24%	-29	to	-20%	0	0		0	0	0	0	00000	
STARLING	-25%	-31	to	-21%	0		0	0	0	0	0	•0000	TĀRINGI
DUNNOCK	-29%	-39	to	-20%	0	0	0	0	0	0	0	••••0	
GOLDFINCH	-41%	-47	to	-36%	0	0	0	0	0	0	0	00000	
SILVEREYE	-47%	-50	to	-44%	0	0	0	0	0	0	0	00000	TAUHOU



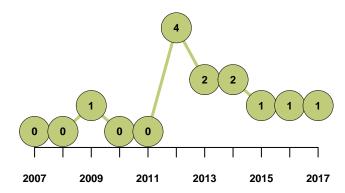


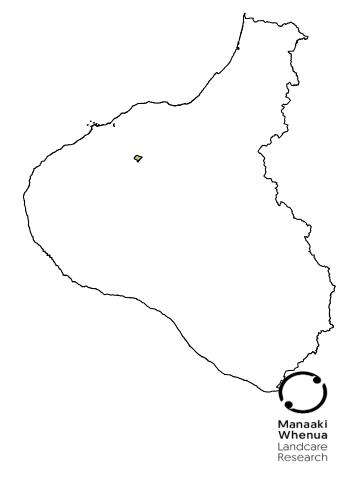
TARANAKI REGION | 2007-2017



Inglewood

	Median		Conf	idence val	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increas	Rapid increase	Quality rating	
GREENFINCH	60%	41	to	74%	0	0	0		0		0	•••00	
TUI	51%	36	to	62%	0	0	0	0	0	0	0	•0000	KŌKŌ
NEW ZEALAND PIGEON	24%	-11	to	47%	0	0	0	0		0	0	•••00	KERERŪ
HOUSE SPARROW	9%	5	to	16%	0	0	0	0		0	0	•0000	TIU
FANTAIL	8%	3	to	12%	0	0	0	0	0	0	0	••••	PĪWAIWAKA
MYNA	5%	-22	to	26%	0	0	0	0		0	0	00000	MAINA
BLACKBIRD	-6%	-9	to	-4%	0	0	0	0	0	0	0	00000	MANU PANGO
CHAFFINCH	-10%	-14	to	-5%	0	0			0	0	0	•0000	PAHIRINI
BELLBIRD	-14%	-33	to	3%	0	0		0	0	0	0	••000	KORIMAKO
STARLING	-29%	-35	to	-25%	0	0	0	0	0	0	0	00000	TĀRINGI
SONG THRUSH	-30%	-36	to	-26%	0	0	0	0	0	0	0	00000	
DUNNOCK	-32%	-41	to	-23%	0	0	0	0	0	0	0	00000	
SILVEREYE	-36%	-40	to	-34%	0	()	0	0	0	0	0	00000	TAUHOU
GOLDFINCH	-47%	-53	to	-42%	0		0	0	0	0	0	00000	



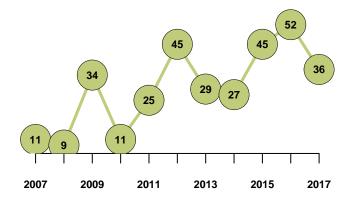


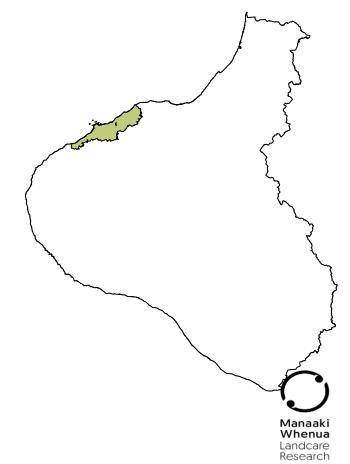
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New Plymouth

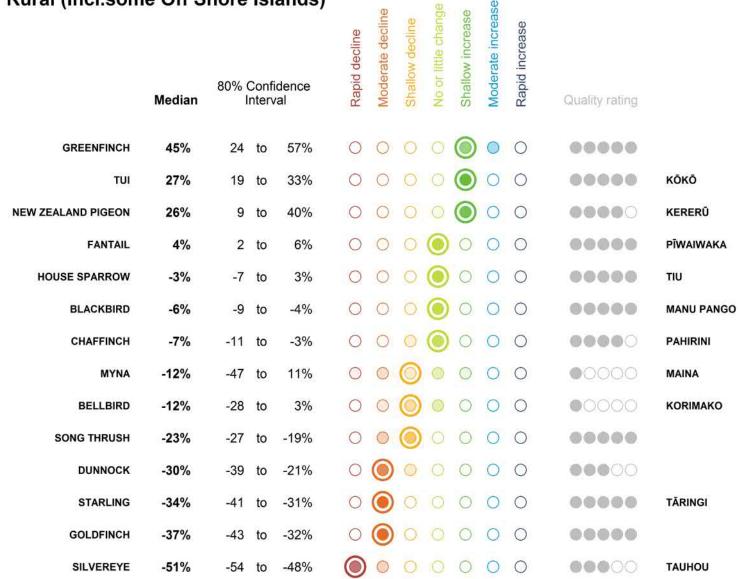
	Median		Conf	idence /al	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increas	Rapid increase	Quality rating	
TUI	43%	35	to	50%	0	0	0	0	0	0	0	00000	KŌKŌ
GREENFINCH	23%	2	to	36%	0	0	0	0	0	0	0	00000	
FANTAIL	9%	4	to	14%	0	0	0		0	0	0	•0000	PĪWAIWAKA
HOUSE SPARROW	5%	0	to	12%	0	0	0	0	0	0	0	00000	TIU
MYNA	-2%	-18	to	11%	0	0	0		0	0	0	••000	MAINA
NEW ZEALAND PIGEON	-7%	-18	to	4%	0	0		0	0	0	0	••000	KERERŪ
BLACKBIRD	-10%	-13	to	-7%	0	0	0	0	0	0	0	•0000	MANU PANGO
BELLBIRD	-13%	-34	to	3%	0	0	0	0	0	0	0	••000	KORIMAKO
CHAFFINCH	-27%	-32	to	-21%	0	0	0	0	0	0	0	00000	PAHIRINI
STARLING	-35%	-41	to	-31%	0	0	0	0	0	0	0	00000	TĀRINGI
DUNNOCK	-35%	-43	to	-26%	0	0	0	0	0	0	0	00000	
SONG THRUSH	-41%	-45	to	-36%	0	0	0	0	0	0	0	00000	
SILVEREYE	-48%	-52	to	-46%	0	0	0	0	0	0	0	00000	TAUHOU
GOLDFINCH	-48%	-54	to	-42%	0	0	0	0	0	0	0	00000	





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Rural (Incl.some Off Shore Islands)

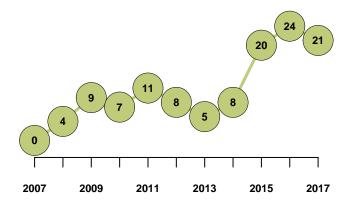


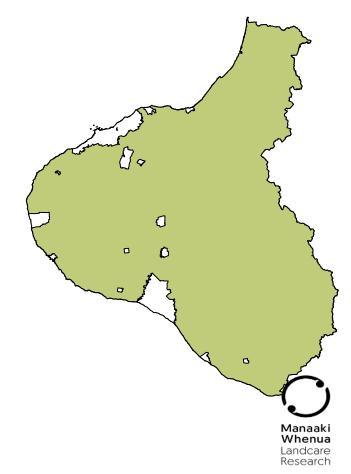
NUMBER OF GARDEN SURVEYS

New Zealand

GARDEN

SURVEY



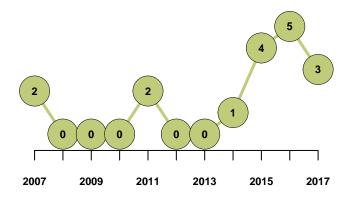


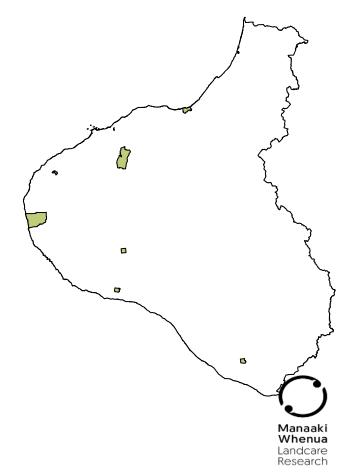
TARANAKI REGION | 2007-2017



Rural Centre

	Median		Conf nterv	idence val	Rapid decline	Moderate decline	Shallow decline	No or little chang	Shallow increase	Moderate increas	Rapid increase	Quality rating	
GREENFINCH	39%	18	to	51%	0	0	0	0	0	0	0	00000	
TUI	17%	10	to	23%	0	0	0	0	0	0	0	00000	KŌKŌ
MYNA	16%	-17	to	40%	0	0	0	0		0	0	••000	MAINA
NEW ZEALAND PIGEON	7%	-15	to	21%	0	0	0	0	0	0	0	00000	KERERŪ
FANTAIL	4%	2	to	6%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
HOUSE SPARROW	2%	0	to	9%	0	0	0	0	0	0	0	00000	TIU
CHAFFINCH	-6%	-10	to	-2%	0	0	0	0	0	0	0	00000	PAHIRINI
BLACKBIRD	-8%	-11	to	-6%	0	0	0	0	0	0	0	•••00	MANU PANGO
BELLBIRD	-11%	-27	to	5%	0	0			0	0	0	•0000	KORIMAKO
SONG THRUSH	-12%	-16	to	-9%	0	0	0	0	0	0	0	00000	
STARLING	-30%	-36	to	-27%	0	0	0	0	0	0	0	00000	TĀRINGI
GOLDFINCH	-34%	-39	to	-29%	0	()	0	0	0	0	0	00000	
DUNNOCK	-34%	-42	to	-25%	0	0	0	0	0	0	0	00000	
SILVEREYE	-42%	-46	to	-40%	0	0	0	0	0	0	0	00000	TAUHOU



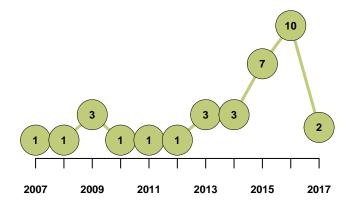


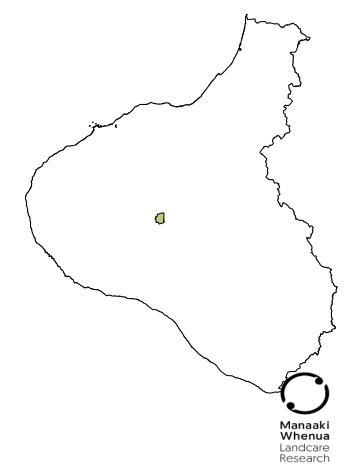
TARANAKI REGION | 2007-2017

New Zealand GARDEN BIRD SURVEY

Stratford

	Median		Conf nter	idence ⁄al	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
TUI	44%	33	to	53%	0	0	0	0	0		0	00000	KŌKŌ
NEW ZEALAND PIGEON	34%	0	to	53%	0	0	0	0		0	0	00000	KERERŪ
GREENFINCH	30%	11	to	42%	0	0	0	0		0	0	00000	
FANTAIL	10%	5	to	15%	0	0	0	0		0	0	00000	PĪWAIWAKA
MYNA	0%	-46	to	29%	0	0	0	0	0	0	0	00000	MAINA
CHAFFINCH	-3%	-8	to	1%	0	0	0	0	0	0	0	00000	PAHIRINI
HOUSE SPARROW	-7%	-11	to	0%	0	0	0	0	0	0	0	00000	TIU
BLACKBIRD	-8%	-11	to	-6%	0	0	0		0	0	0	••••0	MANU PANGO
BELLBIRD	-14%	-33	to	3%	0	0		0	0	0	0	••000	KORIMAKO
SONG THRUSH	-24%	-29	to	-19%	0	0		0	0	0	0	00000	
STARLING	-28%	-35	to	-24%	0	0	0	0	0	0	0	00000	TĀRINGI
DUNNOCK	-35%	-44	to	-26%	0	0	0	0	0	0	0	00000	
GOLDFINCH	-44%	-50	to	-39%	0	0	0	0	0	0	0	00000	
SILVEREYE	-46%	-50	to	-43%	0	0	0	0	0	0	0	00000	TAUHOU



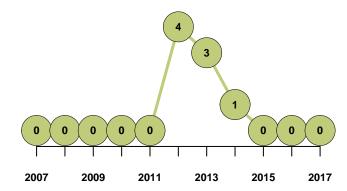


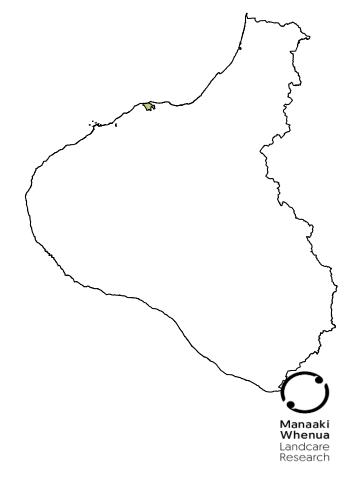
TARANAKI REGION | 2007-2017



Waitara

	Median		Conf	idence ⁄al	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
GREENFINCH	46%	26	to	59%	0	0	0	0	0		0	00000	
TUI	35%	23	to	46%	0	0	0	0	0	0	0	00000	KŌKŌ
NEW ZEALAND PIGEON	23%	-8	to	45%	0	0	0	0		0	0	00000	KERERŪ
FANTAIL	11%	6	to	15%	0	0	0			0	0	••000	PĪWAIWAKA
MYNA	7%	-14	to	23%	0	0	0		0	0	0	00000	MAINA
BLACKBIRD	-10%	-13	to	-7%	0	0	0	0	0	0	0	•0000	MANU PANGO
HOUSE SPARROW	-11%	-15	to	-4%	0	0	0	0	0	0	0	••000	TIU
CHAFFINCH	-12%	-16	to	-7%	0	0	0	0	0	0	0	••••	PAHIRINI
BELLBIRD	-14%	-33	to	2%	0	0			0	0	0	••000	KORIMAKO
SONG THRUSH	-20%	-25	to	-16%	0	0	0	0	0	0	0	00000	
STARLING	-28%	-34	to	-24%	0	0	0	0	0	0	0	00000	TĀRINGI
DUNNOCK	-37%	-46	to	-28%	0	0	0	0	0	0	0	00000	
GOLDFINCH	-40%	-46	to	-35%	0	0	0	0	0	0	0	00000	
SILVEREYE	-49%	-53	to	-47%		0	0	0	0	0	0	00000	TAUHOU







2018
30 June to 8 July

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

