



Technical report

HAWKE'S BAY 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.

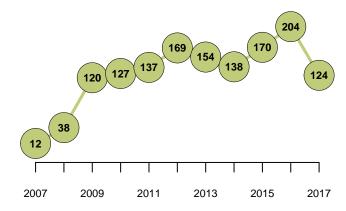


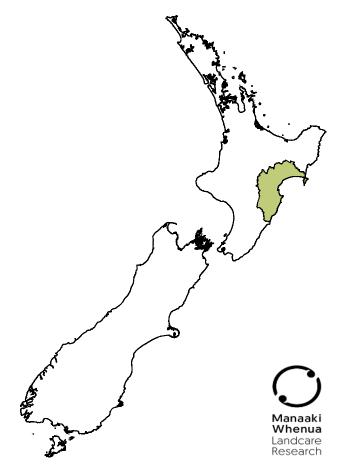


HAWKE'S BAY REGION | 2007-2017



	Median		Conf	idence val	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
GREENFINCH	163%	143	to	177%	0	0	0	0	0	0	()	00000	
NEW ZEALAND PIGEON	52%	40	to	62%	0	0	0	0		0	0	••000	KERERŪ
TUI	40%	35	to	44%	0	0	0	0	0	0	0	00000	KŌKŌ
BELLBIRD	29%	22	to	34%	0	0	0	0	0	0	0	00000	KORIMAKO
FANTAIL	13%	8	to	17%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
CHAFFINCH	11%	7	to	15%	0	0	0	0	0	0	0	••000	PAHIRINI
GOLDFINCH	-1%	-8	to	3%	0	0	0	0	0	0	0	00000	
MYNA	-6%	-10	to	-3%	0	0	0	0	0	0	0	00000	MAINA
BLACKBIRD	-7%	-9	to	-4%	0	0	0	(0	0	0	00000	MANU PANGO
HOUSE SPARROW	-15%	-20	to	-7%	0	0	0	0	0	0	0	00000	TIU
SONG THRUSH	-16%	-21	to	-12%	0	0	0	0	0	0	0	00000	
DUNNOCK	-16%	-24	to	-9%	0	0	0	0	0	0	0	00000	
SILVEREYE	-23%	-27	to	-21%	0	0	0	0	0	0	0	00000	TAUHOU
STARLING	-30%	-35	to	-26%	0	0	0	0	0	0	0	00000	TĀRINGI





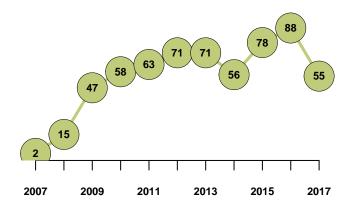
HAWKE'S BAY REGION | 2007-2017

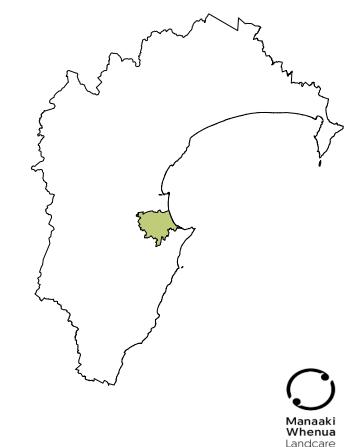


Hastings Zone

3	Median		Conf nter	idence val	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
GREENFINCH	165%	145	to	179%	0	0	0	0	0	0	•	•••••	
NEW ZEALAND PIGEON	43%	31	to	54%	0	0	0	0	0	0	0	00000	KERERŪ
TUI	40%	35	to	45%	0	0	0	0	0	0	0	00000	KŌKŌ
BELLBIRD	32%	25	to	38%	0	0	0	0	0	0	0	00000	KORIMAKO
CHAFFINCH	20%	15	to	24%	0	0	0	0	0	0	0	00000	PAHIRINI
FANTAIL	15%	10	to	20%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
GOLDFINCH	0%	-8	to	5%	0	0	0	0	0	0	0	00000	
BLACKBIRD	-8%	-11	to	-5%	0	0		0	0	0	0	••••	MANU PANGO
SONG THRUSH	-16%	-21	to	-11%	0	0	0	0	0	0	0	00000	
MYNA	-16%	-19	to	-13%	0	0	0	0	0	0	0	00000	MAINA
DUNNOCK	-16%	-24	to	-7%	0	0	0	0	0	0	0	00000	
HOUSE SPARROW	-20%	-25	to	-12%	0	0	0	0	0	0	0	00000	TIU
SILVEREYE	-24%	-28	to	-21%	0	0	0	0	0	0	0	00000	TAUHOU
STARLING	-30%	-35	to	-26%	0	0	0	0	0	0	0	00000	TĀRINGI

NUMBER OF GARDEN SURVEYS





Research

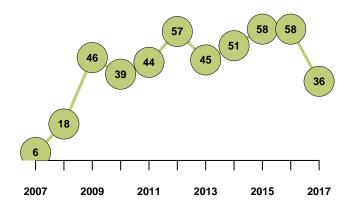
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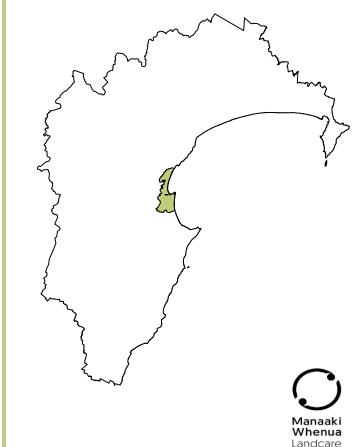


Napier Zone

	Median		Conf nter	fidence val	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
GREENFINCH	172%	152	to	186%	0	0	0	0	0	0	()	00000	
NEW ZEALAND PIGEON	90%	74	to	105%	0	0	0	0	0	0	0	00000	KERERŪ
TUI	53%	47	to	58%	0	0	0	0	0	0	0	00000	KŌKŌ
BELLBIRD	30%	23	to	35%	0	0	0	0	0	0	0	00000	KORIMAKO
FANTAIL	14%	8	to	19%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
MYNA	5%	1	to	9%	0	0	0	0	0	0	0	00000	MAINA
CHAFFINCH	4%	0	to	9%	0	0	0	0	0	0	0	00000	PAHIRINI
GOLDFINCH	-1%	-10	to	3%	0	0	0	0	0	0	0	00000	
BLACKBIRD	-4%	-8	to	-2%	0	0	0	0	0	0	0	00000	MANU PANGO
HOUSE SPARROW	-11%	-16	to	-3%	0	0			0	0	0	••000	TIU
SONG THRUSH	-14%	-20	to	-10%	0	0	0	0	0	0	0	00000	
DUNNOCK	-19%	-29	to	-10%	0	0	0	0	0	0	0	00000	
SILVEREYE	-25%	-29	to	-23%	0	0	0	0	0	0	0	•••000	TAUHOU
STARLING	-31%	-37	to	-27%	0	0	0	0	0	0	0	00000	TĀRINGI

NUMBER OF GARDEN SURVEYS





Research

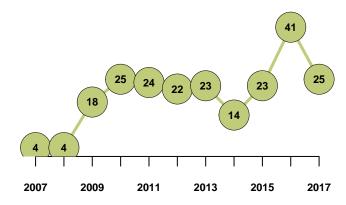
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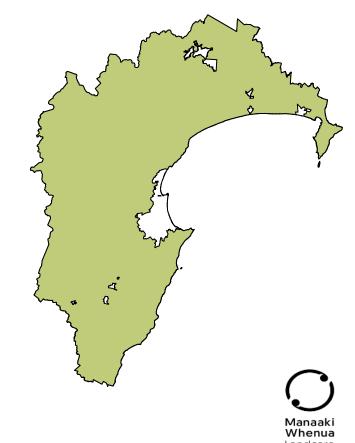
New Zealand
GARDEN
BIRD
SURVEY

Rural (Incl.some Off Shore Islands)

(Median	80% (idence	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
GREENFINCH	105%	84	to	119%	0	0	0	0	0	0	()	••000	
NEW ZEALAND PIGEON	26%	10	to	40%	0	0	0	0	0	0	0	00000	KERERŪ
BELLBIRD	21%	16	to	26%	0	0	0	0	0	0	0	00000	KORIMAKO
TUI	19%	15	to	23%	0	0	0	0	0	0	0	00000	KŌKŌ
FANTAIL	6%	4	to	8%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
CHAFFINCH	5%	0	to	9%	0	0	0	0	0	0	0	00000	PAHIRINI
GOLDFINCH	-3%	-10	to	1%	0	0	0	0	0	0	0	00000	
HOUSE SPARROW	-7%	-11	to	0%	0	0	0	0	0	0	0	••••	TIU
BLACKBIRD	-8%	-12	to	-6%	0	0	0	0	0	0	0	••000	MANU PANGO
MYNA	-9%	-16	to	-3%	0	0		0	0	0	0	•0000	MAINA
DUNNOCK	-12%	-20	to	-4%	0	0	0		0	0	0	••000	
SONG THRUSH	-19%	-23	to	-15%	0	0	0	0	0	0	0	00000	
SILVEREYE	-20%	-24	to	-17%	0	0	0	0	0	0	0	00000	TAUHOU
STARLING	-32%	-38	to	-27%	0	0	0	0	0	0	0	00000	TĀRINGI

NUMBER OF GARDEN SURVEYS





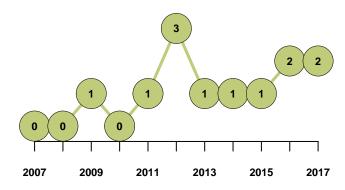
Research

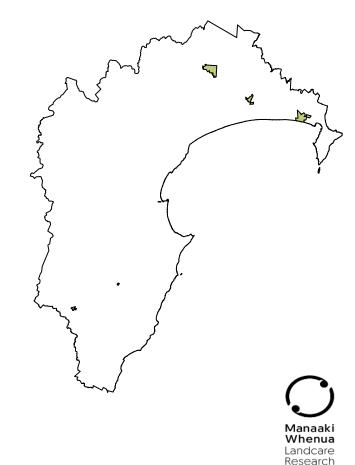
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Rural Centre

	Median		Conf	fidence val	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
GREENFINCH	113%	93	to	127%	0	0	0	0	0	0	()	00000	
NEW ZEALAND PIGEON	27%	-3	to	47%	0	0	0	0	0	0	0	00000	KERERŪ
BELLBIRD	26%	19	to	32%	0	0	0	0	0	0	0	00000	KORIMAKO
TUI	19%	13	to	23%	0	0	0	0	0	0	0	00000	KŌKŌ
FANTAIL	7%	5	to	9%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
MYNA	5%	0	to	9%	0	0	0	0	0	0	0	00000	MAINA
CHAFFINCH	2%	-1	to	5%	0	0	0	0	0	0	0	00000	PAHIRINI
HOUSE SPARROW	-6%	-10	to	1%	0	0	0	0	0	0	0	00000	TIU
BLACKBIRD	-7%	-10	to	-5%	0	0	0	0	0	0	0	00000	MANU PANGO
GOLDFINCH	-11%	-17	to	-6%	0	0			0	0	0	••000	
SONG THRUSH	-15%	-19	to	-11%	0	0	0	0	0	0	0	00000	
DUNNOCK	-21%	-29	to	-13%	0	0	0	0	0	0	0	00000	
STARLING	-26%	-32	to	-22%	0	0	0	0	0	0	0	00000	TĀRINGI
SILVEREYE	-27%	-30	to	-24%	0	0	0	0	0	0	0	00000	TAUHOU



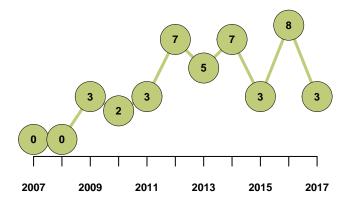


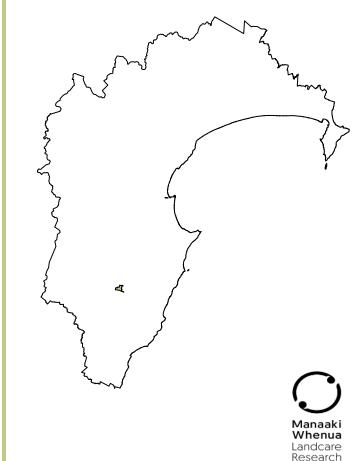
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Waipawa

	Median		Conf nterv	idence val	Rapid decline	Moderate decline	Shallow decline	No or little chang	Shallow increase	Moderate increas	Rapid increase	Quality rating	
GREENFINCH	155%	133	to	169%	0	0	0	0	0	0	()	00000	
NEW ZEALAND PIGEON	89%	49	to	115%	0	0	0	0	0	0	0	00000	KERERŪ
TUI	34%	25	to	41%	0	0	0	0	0	0	0	00000	KŌKŌ
BELLBIRD	33%	26	to	39%	0	0	0	0	0	0	0	00000	KORIMAKO
CHAFFINCH	13%	7	to	18%	0	0	0	0		0	0	••••	PAHIRINI
HOUSE SPARROW	11%	6	to	19%	0	0	0	0	0	0	0	••••	TIU
FANTAIL	11%	5	to	15%	0	0	0	0	0	0	0	••000	PĪWAIWAKA
MYNA	1%	-5	to	6%	0	0	0	0	0	0	0	00000	MAINA
GOLDFINCH	1%	-6	to	7%	0	0	0	0	0	0	0	00000	
DUNNOCK	-6%	-18	to	2%	0	0		0	0	0	0	••000	
SILVEREYE	-7%	-11	to	-4%	0	0	0	0	0	0	0	00000	TAUHOU
BLACKBIRD	-7%	-11	to	-4%	0	0	0	0	0	0	0	•••00	MANU PANGO
SONG THRUSH	-18%	-25	to	-12%	0	0	0	0	0	0	0	00000	
STARLING	-32%	-39	to	-28%	0	0	0	0	0	0	0	00000	TĀRINGI



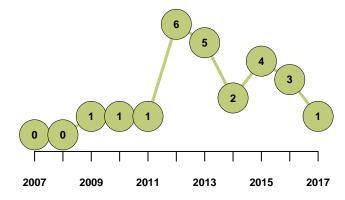


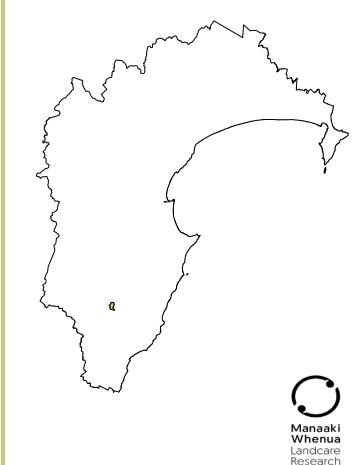
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Waipukurau

	Median		Conf	fidence val	Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
GREENFINCH	176%	157	to	190%	0	0	0	0	0	0	()	00000	
NEW ZEALAND PIGEON	90%	51	to	115%	0	0	0	0	0	0	0	00000	KERERŪ
BELLBIRD	45%	28	to	59%	0	0	0	0			0	00000	KORIMAKO
TUI	28%	19	to	35%	0	0	0	0	0	0	\bigcirc	00000	KŌKŌ
FANTAIL	15%	9	to	20%	0	0	0	0	0	0	0	00000	PĪWAIWAKA
GOLDFINCH	2%	-4	to	7%	0	0	0	0	0	0	0	00000	
CHAFFINCH	2%	-2	to	7%	0	0	0	0	0	0	0	00000	PAHIRINI
MYNA	-5%	-11	to	-1%	0	0	0	0	0	0	0	00000	MAINA
BLACKBIRD	-9%	-12	to	-6%	0	0			0	0	0	••000	MANU PANGO
SILVEREYE	-18%	-22	to	-16%	0	0	0	0	0	0	0	00000	TAUHOU
HOUSE SPARROW	-18%	-23	to	-10%	0	0	0	0	0	0	0	00000	TIU
DUNNOCK	-19%	-29	to	-11%	0	0	0	0	0	0	0	00000	
STARLING	-20%	-26	to	-16%	0	0	0	0	0	0	0	00000	TĀRINGI
SONG THRUSH	-32%	-37	to	-26%	0	0	0	0	0	0	0	00000	



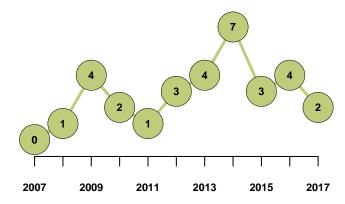


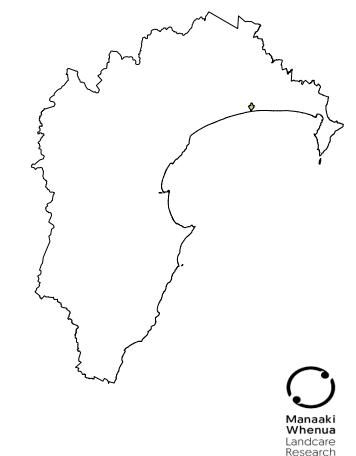
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Wairoa

Wanou	Median	80% Confidence Interval			Rapid decline	Moderate decline	Shallow decline	No or little change	Shallow increase	Moderate increase	Rapid increase	Quality rating	
GREENFINCH	253%	231	to	269%	0	0	0	0	0	0	()	00000	
NEW ZEALAND PIGEON	97%	63	to	118%	0	0	0	0	0	0		00000	KERERŪ
BELLBIRD	26%	20	to	31%	0	0	0	0	0	0	0	00000	KORIMAKO
TUI	25%	17	to	31%	0	0	0	0	0	0	0	00000	KŌKŌ
CHAFFINCH	10%	5	to	15%	0	0	0	0		0	0	00000	PAHIRINI
FANTAIL	9%	4	to	14%	0	0	0	0		0	0	•0000	PĪWAIWAKA
MYNA	3%	-3	to	7%	0	0	0	0	0	0	0	00000	MAINA
HOUSE SPARROW	0%	-5	to	7%	0	0	0	0	0	0	0	00000	TIU
GOLDFINCH	0%	-6	to	5%	0	0	0	0	0	0	0	00000	
BLACKBIRD	-6%	-9	to	-3%	0	0	0	0	0	0	0	00000	MANU PANGO
SILVEREYE	-10%	-14	to	-7%	0	0	0	0	0	0	0	•0000	TAUHOU
SONG THRUSH	-14%	-20	to	-8%	0	0	0	0	0	0	0	00000	
STARLING	-21%	-27	to	-16%	0	0	0	0	0	0	0	00000	TĀRINGI
DUNNOCK	-22%	-31	to	-13%	0	0	0	0	0	0	0	00000	







2018
30 June to 8 July

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

