

# SHORT NOTE

## Changes in the number of black-billed gulls (*Larus bulleri*) nesting on the Ruamahanga River, Wairarapa, between 1998 and 2012

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Black-billed gulls (*Larus bulleri*) nesting on the Ruamahanga River, Wairarapa, New Zealand, were monitored between 1998 and 2012. The number of nesting pairs increased from 12 in 1998 to 32 in 2012. This increase was due to a combination of factors, including an increase in the number of nesting sites and an increase in the number of eggs laid per pair. The increase in the number of nesting sites was due to the construction of a new nesting site in 2005. The increase in the number of eggs laid per pair was due to an increase in the number of eggs laid per pair from 1.5 in 1998 to 2.5 in 2012. This increase was due to an increase in the number of eggs laid per pair from 1.5 in 1998 to 2.5 in 2012. This increase was due to an increase in the number of eggs laid per pair from 1.5 in 1998 to 2.5 in 2012.

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Fig. 3. S, -Yd@Y-S a, -l a, qdS .«" |PQ«" ²C|«-l@l dS -1" ±-l L±, qd/4 ³«².². dYµ %Yµ±



©µ« YµSS±a qd± fi-º d'S .« \* dµµ³ d 323, d.º± ²C Yd@Y-S a, -l .² Y qd, ±S YdS qdS, -l dS -1" ±-l fi -l ±². @±²º ±º «µ. «" a, -l ²º ². .lS" .«" YµSS±a qd± Y, -l ²C ±µ. ² ±². .« dS, µ±a d, µ¹/² ± 1" Yµ qd/4 d.². d ²C Yd@Y-S a, -l ²º ±µ. ², ±" S ±². «" d± µ± ²µµ³ d ! @±² | µ, µ pers. comm . .« d.º. d Y. d |², 3-²C, -l « dS -²C fi ±-1/4 Z@± dS -l ³² qdY. .« d. «" a, -l |², ±" S ±² Z@± \* dµµ³ d ±º -S 1" Yµ qd/4 ²º µ. «" % dº d± a d% ± µYd@Y-S a, -l .l, S 1/4 ±² a |²-², µY±S " S YdS qd ², S 3µ¹ -Z@± \* dµµ³ d -l. «" ±² ± YµSS±a «dY- d @µ. «" \* dµµ³ d Yd@Y-S a, -l |². «" YµSS±a qdS .º. ² |d |« dS |²-², µY±S .«" a, -l ². .lS" .«" YµSS±a |²-² ±/4 ²º, S Y ³µ ±-l ±² a fi ±-1/4 Z@± . d@Y-S a, -l qµ± d fi ±-1/4 Z@± ± d. . a, -l dS, ³. ² YdS |d± Y. l ±. «" µ ± ²µ±a fi .«" 1/4µ. µS ±. «" -SS-²C. ²º ±. µ ± L 1/4 d ² |² ²C YdS qd± S d fi ±-1/4 Z@± ²C «-l qd/4 S @µ d |², 3-²C ²C .«" |, ±-1 |² S ²º «" µ dS qd ²º ²C .«" ²º -d¹ d± d± µ. µ±a ±. a, -l 1/4 -S 1" Yµ qd/4 ²º YdS qd± .«" ³ µ d qd. ² ²¹ µ ±. µ d Z@± \* dµµ³ d .«" dY-1/4 ²C Yd@Y-S a, -l .² ±-l .l |l qd -1/4 ±². «" % dº d± a d% ± µ l aa- l .« d .l -dY- «dY- d µ l ±-l ± dº, |« d. µ S µ± µ l µ. / µ d µ \* -± a, ² ± % a qd ± d ², ±-1 -l qd qd ²C. «" Yd@Y-S a, -l |²-² ±/4 dS .«" 1º, ²C \* dµµ³ d µ± µ l @µ YdS l " l ±-1/4 YdS ²C dS Yd@Y-S S ² µ. l ±, d ²² S |² ± µ. ²º µ µº ²¹ .l ²² S 1/4 1" a. d.º ± qdº µ± µ S l .«" µ µ ±² a dS ²º d± d± ± a .«" ²³ ± «dY- d µ± µ YdS µ. µ. ², S 2 1/2 µ l d± Y. l S .² © µ «µ ±² ± µ± µ l @µ. «" Y ±. ²C YdS qdS ². «" µ -S-²C & µ d. qd ± a. |« d± ± l qd

²C-1" 1º, .² YdS l qd qd d µ± µ S l Z, -1 |« d± ± S µ± µ l .«" «-d YµSS±a qd± S l .«" d ³ µ¹ -S" qd .º. ³ µ. .º. d± d± d. ³ µ S d ² µ l dS qd qd @Qº .º. ² qd ²² S ± a qd |µ |d. ² Yd@Y-S a, -l dS ². «" µ µ± µ YdS l

ACKNOWLEDGEMENTS

l «" dS \* dµµ³ d µ± µ l µ. µ 1/4 ²º µ ±-d S Y 1/4 ² µ l .º. ² dS qd. ³² µ S dS © ± S Y 1/4 µ ± µ \* -± a, ² ± % a qd ± d ², ±-1 .l 1 ²² S # l .º. .º. ± µ l .º. ± ±. «" Z d± µ ±²" | µ |² a ±/± a .«" ³ ³² µ d |² ²C \* dµµ³ d µ± µ l qd YµSS±a «dY- d @µ dS µ l dS Yd@Y-S a, -l & -l d. « d @. / ² % dS Z d a ² µ. d¹ S ²² ± dS Z d d± µ d d d / ² % dS Z d qd .º. ± a dº d 1 .º. © µ. «" µ l ³² µ .². «" ³ µ. .l. |« d± d qd .² µ l .º. µ l .«" ³ µ¹ -S S |² ± µ l .l .l ²º .º. ±. l ² ± d ± µ µ µ d ²C «-l ³ d³ µ

LITERATURE CITED

µµº L% fi dS YµSS±a ²C Yd@Y-S a, -l ± qd. .«" µ fi dº qd l d/4 dS ±² µ «" µ \* dµµ³ d Notornis 27  
fi -a ± l # L. d¹ -l & L L 1 " S l Handbook of Australian, New Zealand & Antarctic birds. Volume 3, Snipe to pigeons. Z " Y, µ. " » © µ S ( ± ± µ l -1/4 µ l µ l )  
% Y µ ± ± µ ± µ Y d S ±, ° Y µ l ² ± µ dº d± a d \* d± a dº \* dº «-± dS l d, «" µ ±-d, µ ± µ l \* d± dµ³ d ± ² µ ± a 1 ² µ l .º. ² S @µ / µ ± µ \* -± a, ² ± % a qd ± d ², ±-1 . 3  
% Y µ ± ± .º. ² S l ² ± \* dµµ³ d % ± µ l dS |² d l ± YµSS±a qd± 1 ² µ l .º. ² S @µ / µ ± µ \* -± a, ² ± µ ± a qd ± d ², ±-1 ., ³, Y -l «" S µ ³² µ 3  
& S ²³ « % fi .º. d@Y-S a, -l ±² µ «" µ \* dµµ³ d Notornis 25

Keywords Yd@Y-S a, -l Larus bulleri ³²³, d.º. ± |« d± a l YµSS±a |²-² ±-l