

New R&D Publications

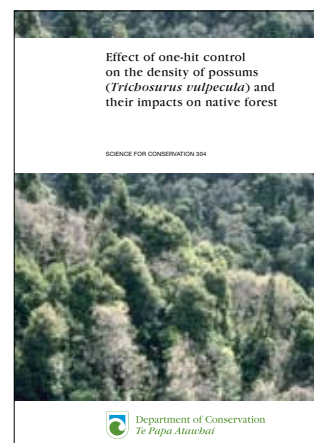
June/July 2010

SCIENCE FOR CONSERVATION

Effect of one-hit control on the density of possums (*Trichosurus vulpecula*) and their impacts on native forests

G. Nugent; J. Whitford; P. Sweetapple; R. Duncan; P. Holland
2010. *Science for Conservation* 304. 64 p.

How forests respond to possum (*Trichosurus vulpecula*) control is not well understood. This report documents how possum populations, and the tree species they feed on, responded over 6–8 years following single aerial 1080 poisoning operations. The study showed that although the interactions between the possums and their food supply were complex, possum control did reduce possum browse, and therefore tree defoliation and, ultimately, tree mortality. Importantly, the study indicated that reducing possum density by 60% was sufficient to protect most of the possum preferred tree species studied.



DOC MARINE CONSERVATION SERVICES SERIES

Autopsy report for seabirds killed and returned from observed New Zealand fisheries: 1 October 2007 to 30 September 2008

D.R. Thompson 2010.

DOC Marine Conservation Services Series 5. 33 p.

Large numbers of seabirds frequent New Zealand commercial fishing waters. The accurate determination of the taxa of seabirds captured in New Zealand fisheries is vital for examining the potential threat to population viability posed by incidental fisheries captures, and to help reduce future captures. The assessment of the age-class, sex and provenance of captured individuals requires autopsy in the majority of cases. Between 1 October 2007 and 30 September 2008 (the 2007/08 fishing year), a total of 251 seabirds comprising 20 taxa were incidentally killed as bycatch and returned for autopsy by on-board government observers.



Photo: Andrew Maloney



Department of Conservation
Te Papa Atawhai



RETROSPECTIVES ON THE WEB

We are continuing to add PDFs of our older publications to the website. This month we have added electronic versions of ten *Science & Research Series* titles originally published in 1992 and 1993.

New this month are issues numbered 52-55 and 57-62.

Details of all these and links to the PDF files can be found in our online catalogue at:

www.doc.govt.nz > *Publications* > *Science & technical*

OTHER REPORTS AND ARTICLES

These reports, written by DOC staff or contractors conducting research for the Department of Conservation, have been published by external agencies.

Environment, composition and conservation of coastal turfs of mainland New Zealand

G.M. Rogers; S.K. Wisser 2010. *New Zealand Journal of Botany* 48(1): 1-14.

Predation of lizards by black-fronted terns (*Sterna albobriata*)

C.F.J. O'Donnell; J.M. Hoare 2009. *Notornis* 56: 167-168.

The roles of predation, microclimate and cavity abundance in the evolution of New Zealand's tree-cavity nesting avifauna

B.K. Rhodes; C.F.J. O'Donnell; I.G. Jamieson 2009. *Notornis* 56: 190-200.

The publications listed in this memo record the results of science projects carried out by contractors and staff for the Department of Conservation.