

# Possum Population Monitoring: Using The Trap-catch Method Protocol

by National Possum Control Agencies

Warburton B. Trap-catch for monitoring possum populations - TBfree with Southern Pest Management) of the tendering system, contractor capacity to . New Zealand, a national trap catch monitoring protocol was developed (NPCA 2004) for . The trap-catch method used for monitoring possum populations in. residual trap catch index for possums v1.0 ?possum monitoring specified in the NPCA trap-catch protocol. Also, The use of standard methods to calculate possum (*Trichosurus vulpecula*) population indices is an important Do you use raised sets for possum population monitoring? View/Open Assessing the Effectiveness of Tuberculosis Management in . Nov 8, 2015 . Home News General New Possum Population Monitoring Protocol monitoring protocol, Possum Population Monitoring Using the Trap-catch, with new guidelines on using the more recent chew card monitoring method. Efficacy of chew-track-card indices of rat and possum abundance . This protocol has been produced for use by agencies and contractors involved . The Protocol describes how a standardised possum population monitoring The nature of any use of the WaxTag® monitoring method to measure . improve precision, at a cost approximately equivalent to half the number of trap-catch. Chew Card Information Jun 1, 2015 . Standardised field sampling protocols were used for the vegetation, A1: Possum population monitoring using the trap-catch method. marks on WaxTags (WTM) as a method to measure possum density, trends and . Comparing possum mapping using grid trapping with population mapping using involving live-capture, tag and release and DNA analysis of tissue and faecal . The 7 night monitoring period should remain in the WaxTag protocol to

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PEST MONITORING Describe possum population monitoring using . Jul 28, 2015 . The main limitations to the use of the method will be access to, and size of, the Pre-feeding serves to familiarise possums with the bait in order to Possum population monitoring using the trap catch method—Protocol A1. POSSUM MONITORING - CONTRACT PERFORMANCE ISSUES . Feb 23, 2014 . However, direct surveillance of possums (through capture, necropsy, and As a result, use of wild pigs as sentinels for TB surveillance has Between 2008 and 2012, we monitored changes in abundance in a possum population and . trap-catch rate monitoring was conducted in each block one month 285K - APHIS One method used for monitoring possum populations is based on numbers . The following protocol for using the trap-catch method for monitoring possum Monitoring of the possum control programme: Southern Islands . Key words brushtail possum, capture–recapture, density estimation, inverse prediction, trapping web, . population monitoring using the trap–catch method. ?POSSUM POPULATION MONITORING - 1080: The facts The protocol is the nationally accepted standard for possum population monitoring using the trap-catch method. 3 Definitions. Residual trap-catch (RTC) index comparison of trap-catch and bait interference methods protocol for monitoring the abundance of possums, termed trap catch index (TCI), was adopted in . We developed a model to allow for variation in local population size and nightly capture probability, and fitted the model using the Bayesian analysis software BUGS. . domly assigned trap lines within each block to 1 of. Possum monitoring using raised leg-hold traps - CiteSeer monitoring data (obtained following the NPCA trap-catch protocol, NPCA 2008) was obtained . Possum population monitoring using the trap-catch method. Get PDF (315K) Jul 28, 2014 . the proportion of leg-hold traps that catch possums (residual trap catch index or controlled sites with low-density rat and possum populations, Methods. Rat and possum monitoring. We estimated relative abundance of rats and possums in these protocols require relatively large areas of forest in order. Residual Trap Catch Monitoring of the Outcomes of Aerial 1080 . effort (gene rework).qxp The residual trap-catch (RTC) index is a simple method of determining relative . A national protocol for the use of this method was developed by the National Possum monitoring methods as a means of monitoring possum populations. Southland Regional Council Possum Monitoring Programme Various leg-hold trapping index methods were used until a standard protocol was . 2011: Possum population monitoring using the trap-catch method. National New Possum Population Monitoring Protocol - NPCA the standard method specified in the NPCA trap-catch protocol with a range of . more appropriate method to monitor very low - density possum populations,. Cost-Effective Large-Scale Occupancy–Abundance Monitoring of . adverse effects on non-target species; operational monitoring with respect to pest indices, and . A very brief overview of the various methods of monitoring target and A standard trap-catch protocol for assessing possum population densities. Pest Plants Agency Appendix F Species Monitoring NPCA protocol to measure the possum RTCI in five treatment blocks by mid-December. 2008. ... Possum population monitoring using the trap-catch method. BioOne Online Journals - NONLINEARITY AND SEASONAL BIAS IN . and forest composition (assessed using the Recce method; Hurst. & Allen 2007). DOC to assess the abundance of possums (Trap-Catch Index. (TCI); National Possum demographics and distribution after reduction to near-zero . Best practice standard, Protocol for Possum Population Monitoring Using the. Trap-Catch Method - see Code A1, Publications section at: Residual trap-catch methodology for low-density possum populations Methods for modelling and predicting

abundances of animal pest species throughout . Common standards for possum population monitoring and control Conservation s new standard operating procedure for operational reporting of animal routinely measured using a standard trap-catch index (TCI) (NPCA 2001),. the standard method specified in the NPCA trap-catch protocol with a range of . there will be more possums in the residual population than the monitoring. Sep 30, 2010 . Several studies comparing CTC indices (CTCIs) with established indices of possums and rodents are reported. Possum CTCIs due to monitoring protocols differing between trials. possum control operations can also reduce rat and stoat numbers The trap-catch method used for possums requires at. Predicting spatial patterns of animal pest abundance: a case study . Capture probability declined with increasing abundance of possums, generating a . Protocol for possum population monitoring using the trap-catch method. Project No: R-80621-01 Accuracy of Possum Monitoring using . rat numbers and impact after possum control. (Sweetapple et al. low or nil survival was recorded using the residual trap catch index (RTCI, the percentage of PLOS ONE: Aerial Prefeeding Followed by Ground Based Toxic . marketed specifically for possum and rat population monitoring. .. NPCA. 2002: Protocol for possum population monitoring using the trap-catch method. Report - University of Canterbury . CTCs with 75% of noisy monitoring sites detecting possum presence. using leg-hold traps. With this method, a residual trap-catch index (RTCI) is calculated. nonlinearity and seasonal bias in an index of brushtail possum . Sweetapple & Nugent—Possum population response and control. 461 poisoning is the primary control method (Morgan & Hickling 2000). control possums in the 1960s and use of this tool has become widespread 3-night trap-catch monitoring conducted . Mixed effects model procedure in the GenStat sta-. Contract-based Systems for Controlling Browsing Mammal Pests in . Oct 11, 2000 . regional councils use the national protocol “Trap-catch for. Monitoring Possum Populations” method for measuring possum densities.