

# Effect of plantation clearcutting on carnivore presence in industrial forest landscapes in south-central Chile

Escudero-Páez, Sandra P.

Botero-Delgadillo, Esteban

Estades, Cristián F.

© 2018 Walter de Gruyter GmbH, Berlin/Boston 2018. Information on how wildlife is affected by pine plantation clearcutting is relevant for designing management strategies to promote biodiversity conservation in productive systems. By comparing the number of records of carnivores in a mosaic of pine plantations and native forest remnants before and after pine harvesting, we assessed the effect of plantation clearcutting on carnivore presence in ten sampling areas in Central Chile. We also included a number of covariates to account for their potential confounding effects, for example, the distance between each site and the nearest human settlement and vegetation cover. A total of 10 species were observed, but no negative effect of clearcutting on carnivore presence was detected. Only the culpeo fox (*Lycalopex culpaeus*) responded positively to the harvesting of pine plantations. The threatened kodkod (*Leopardus guigna*) was absent in clearcut areas and the number of records increased in