

Monitoring vertebrate populations using observational data

Wesley M. Hochachka, Kathy Martin, Frank Doyle, and Charles J. Krebs

Abstract: Methods for monitoring temporal changes in population size vary from intensive and potentially expensive to less intensive and more easily implemented techniques. In this paper we evaluate the utility of a monitoring technique that can be used to follow many vertebrate species simultaneously at low cost and requires little training of personnel. Observers record the number of individuals seen per hour in the field and these rates of encounter are used as an index of population size. We examine whether encounter rates reflect population size by comparing them with independent censuses of three species over a 7-year period in the boreal forest near Klusane Lake in the southern Yukon Territory. Encounter rates were generally an accurate reflection of variation in population size. In our study system, inter-observer variability did not influence our ability to detect fluctuations in population size; the underlying fluctuations were detected whether data from all or only a group of "high-quality" observers were used. In our study, the benefit of using all available data outweighed the cost of variation among observers because sample sizes were large (averaging over 1200 data points from 33 observers per year). Variation in the length of observation periods did not affect the chance of detecting animals in our study. Encounter rates provide a reasonable index of variation in population size, although caution should be used with species that are uncommon or difficult to detect.

Résumé : Les méthodes d'estimation des changements temporels de taille des populations vont des méthodes intensives, potentiellement onéreuses, aux méthodes moins intensives souvent plus faciles à utiliser. Nous évaluons ici une méthode d'estimation adaptée à suivre plusieurs espèces de vertébrés simultanément, méthode qui ne coûte pas cher et qui requiert peu d'entraînement de personnel. Les observateurs notent le nombre d'animaux aperçus en 1 h sur le terrain et ce nombre sert d'indice de la taille de la population. Nous examinons si la fréquence de ces rencontres reflète la taille des différentes populations en comparant les chiffres obtenus avec les résultats de recensements de trois espèces effectués indépendamment pendant une période de 7 ans dans la forêt boréale de la région du lac Klusane, dans le sud du Yukon. La fréquence des rencontres est généralement un indice assez exact de la taille des populations. Dans notre système, la variabilité inter-observateurs n'influence pas la capacité de détecter les fluctuations dans l'effectif des populations : les fluctuations de la taille de la population ont été détectées dans les cas où les données de tous les observateurs de « haute qualité » ont été utilisées aussi bien que dans les cas où seulement celles d'un groupe d'entre eux ont été utilisées. Dans cette étude, les avantages à utiliser toutes les données disponibles excèdent les coûts reliés à la variation entre les observateurs, à cause de l'importance des échantillons (en moyenne, plus de 1200 données enregistrées par 33 observateurs par année). La variation dans la durée des périodes d'observation n'affecte pas la probabilité de détecter la présence d'un animal. La fréquence des rencontres donne des indices réalistes de la variation de la taille des populations, mais il faut user de prudence dans le cas d'espèces peu communes ou difficiles à repérer.

[Traduit par la Rédaction]

Introduction

Numerous techniques have been developed for estimating abundance in animal populations, and they vary in the amount of effort required to conduct the work. Direct census (e.g., Falls 1981) and mark-recapture (e.g., White et al. 1982; Pollock et al. 1990; Krebs 1999) provide data on actual numbers of animals but require intensive effort to obtain information on one or a few species. Other highly standard-

ized monitoring methods such as the North American Breeding Bird Survey (e.g., Robbins et al. 1986) and constant-effort mist-netting (e.g., Ralph et al. 1993) provide indices of abundance for several species simultaneously, but still require a considerable amount of effort directed specifically towards the census work. However, there are circumstances in which information on relative population size is required but it is logistically impossible to expend the time and effort solely on intensive censusing. One type of census

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