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16 October, 2024

Abstract

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Keywords: keyword 1; keyword 2; keyword 3

Highlights: These are the highlights.

# Introduction

*The following shows an example paragraph with citations* The number of species threatened with extinction is high and getting higher (IPBES, 2019). Reliable information on the status of populations and likely impacts of management are needed to inform conservation action, but effective monitoring is challenging and costly (Dunham et al., 2023; Legg and Nagy, 2006; Lindenmayer and Likens, 2018; Wintle et al., 2010).

# Methods

## Caribou population monitoring data and composition survey errors

*This shows some examples of equations in text and in separate blocks*

Given these assumptions and definitions, the sex and bias-corrected recruitment rate can be written as a function of the observed calf:cow ratio , the cow multiplier , the ratio of young bulls to adult females , and the misidentification probabilities and (see Supplement B for details). For simplicity, we combine the probabilities into a bias term that is integrated into the Bayesian population model and simulations (below):

## Anthropogenic disturbance and monitoring scenarios

*This includes and example of how to reference a table and a figure*

In simulated monitoring scenarios, we assume collars are deployed in January, and continue to function for up to 6 years. The target number of collared females varies among scenarios, as does the total duration of the monitoring program and the ratio of uncollared to collared adults in the recruitment survey (Table 1). Collars lost to mortality may be replaced each year (), or there may be a 3 year gap between deployments ().

Table 1: An example table

|  | mpg | cyl | disp | hp | drat | wt | qsec | vs | am | gear | carb |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mazda RX4 | 21.0 | 6 | 160 | 110 | 3.90 | 2.620 | 16.46 | 0 | 1 | 4 | 4 |
| Mazda RX4 Wag | 21.0 | 6 | 160 | 110 | 3.90 | 2.875 | 17.02 | 0 | 1 | 4 | 4 |
| Datsun 710 | 22.8 | 4 | 108 | 93 | 3.85 | 2.320 | 18.61 | 1 | 1 | 4 | 1 |
| Hornet 4 Drive | 21.4 | 6 | 258 | 110 | 3.08 | 3.215 | 19.44 | 1 | 0 | 3 | 1 |
| Hornet Sportabout | 18.7 | 8 | 360 | 175 | 3.15 | 3.440 | 17.02 | 0 | 0 | 3 | 2 |
| Valiant | 18.1 | 6 | 225 | 105 | 2.76 | 3.460 | 20.22 | 1 | 0 | 3 | 1 |

We focus on exploring a set of scenarios in which buffered anthropogenic disturbance, measured as the percentage of area within 500 m of some type of anthropogenic disturbance (ECCC, 2011; Johnson et al., 2020), increases by 1% per year (Figure 1).

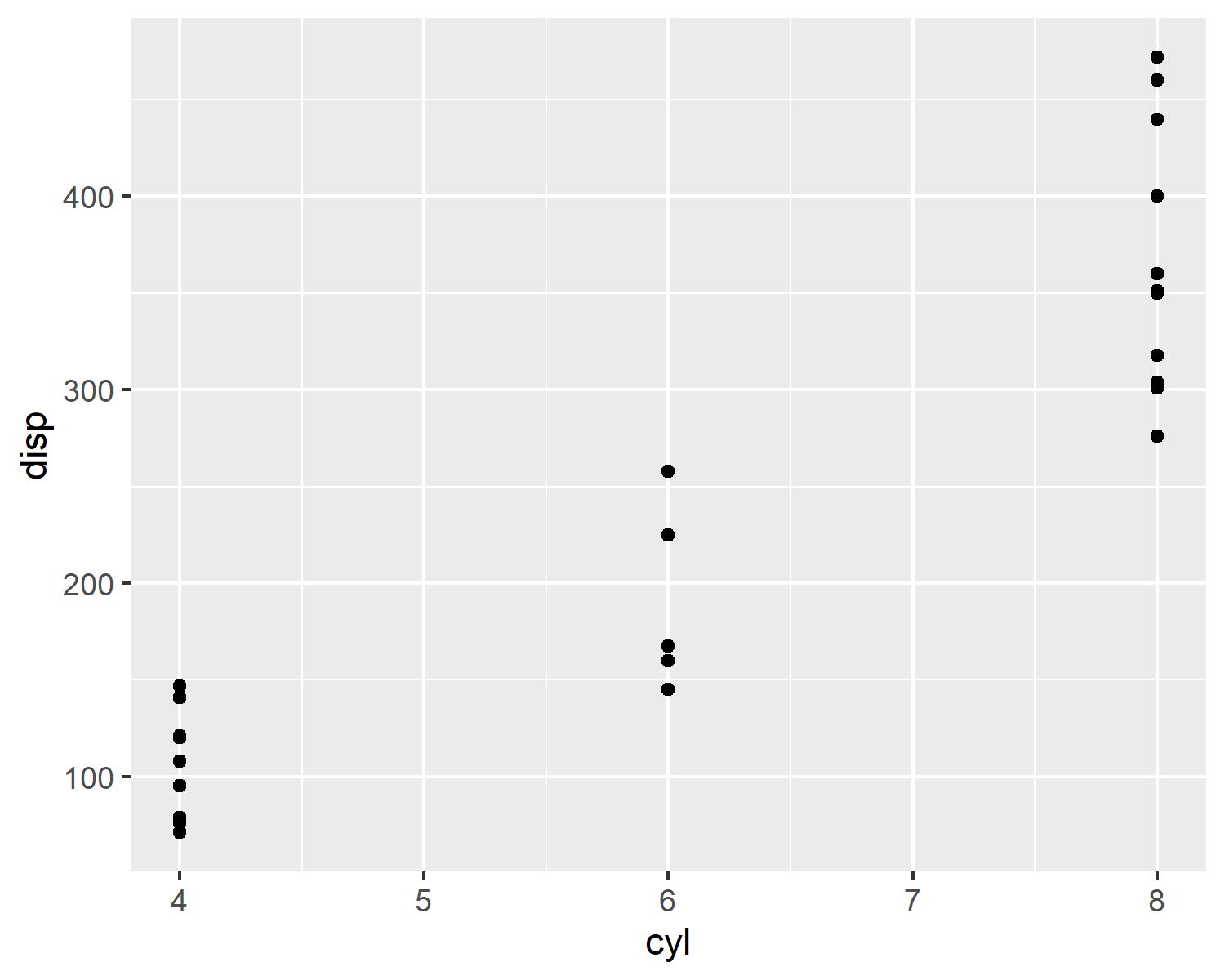


Figure 1: An example figure

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### Colophon

This report was generated on 2024-10-16 14:57:07.874545 using the following computational environment and dependencies:

The current Git commit details are: