Eucalyptus Regrowth

**Introduction**

background

This study includes data from

The data contains

The goal of this analysis is to

We hypothesize that

**Methods**

We first analyzed the data for imbalances and relationships,

The final model was tested by adding and removing variables and weights

The formula for our model with the most explanatory power is:

glm(all\_data$cop ~ all\_data$sex + all\_data$thorw + all\_data$fwl, "binomial")

**Results**

The mean

The parameter estimates

**Conclusion**

The greatest predictor of

Future analysis could improve by

Appendix

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Mixed effect model summary** | | | |  |
| Formula: hornT ~ age \* mass + sex + (1 | season + density) | | | |  |
| **Fixed effects** | **Estimate** | **Std. Error** | **R2 (M)** | **R2 (C)** |
| (Intercept) | -1.12000 | 7.34660 | --- | --- |
| Age | 46.56103 | 1.10164 | 0.2617 | 0.2374 |
| Mass | 14.03264 | 0.23892 | 0.3539 | 0.3143 |
| SexM | 39.86516 | 1.66785 | 0.1505 | 0.1468 |
| Age:Mass | -1.62995 | 0.04805 | 0.1128 | 0.1079 |
| **Random effects** | **Variance** | **Std. Dev** |  |  |
| Season (Intercept) | 144.7 | 12.030 | 0.1165 | 0.1451 |
| Density (Intercept) | 54.6 | 7.389 | 0.1150 | 0.1270 |
| Residual | 2319.2 | 48.158 | --- | --- |

Table 1. Estimates of mixed effect model where estimates are the regression coefficient (β) or the slope on the effect: Horn Length (hornT) given in mm. Sex is set relative to male (SexM) and density is set relative to low density. Percent variance explained is given by marginal R2 (M) and conditional R2 (C). Sample size n = 4,394.

Code can be found in Github repository linked below:

<https://github.com/mtindall69/bios14/tree/chamois-midterm>

References