

STAT3015/STAT7030 Generalised Linear Models

Marking Sheet for Assignment 1 for 2015

Marks

Question 1

- (a) Description of factors and treatments
Discussion of role of operator as a blocking factor
Number of replications per treatment (3) ____
- (b) Two correct factor plots (or equivalent) with clear labelling
(1 mark for each plot + 1 mark for the labels/legend/comments) (3) ____
- (c) Model description
Correct assumptions and constraints
Residual vs fitted plot with comment
Normal quantile plot with comment
Choice of leverage/influence plot with comment
Discussion of problems with residual plots (6) ____
- (d) Presentation of the Analysis of Variance table (essential)
Discussion of significant terms and the implications
Table of parameter estimates (optional) or presentation of group means
2 marks for discussion of which combinations give the best results
Calculating the crucial custom hypothesis test or confidence interval
Drawing a conclusion that addresses the underlying research question (7) ____
- (e) Selection of correct model
Comment re residual plots
Analysis of Variance table
Discussion of significant of terms and the implications (4) ____
- (f) Model description
Correct identification and description of random effect term
Correct assumptions (3) ____
- (g) Analysis of Variance table
Comparison and comment (2) ____
- (h) Correct identification of variance components
Calculation and comment on % of overall variability due to blocking (2) ____

Student ID (1) _____

Total marks (out of 30) ____

Student ID (2) _____ (if the assignment was done in a group of 2)

Model solutions are available on Wattle, which you should compare with your solutions.
Please see Xu Shi or Ian if you have questions about the assignment or queries re your marks.

Please note that if you do wish to appeal your mark; you will need to send Ian an e-mail detailing the problem and also provide him with your marked assignment and the copy (electronic or paper) that you were supposed to keep when you submitted the assignment.

If you do request a re-mark, your entire assignment will be re-marked by Ian (not just the part you are querying) and your final mark for this assignment may go either up or down as a result of this re-mark.