Biology 4605/7220 Worksheet: Hierarchical ANOVA

2 November 2011

The following examples are taken from the 2002 text by Grafen and Hails, *Modern Statistics for the Life Sciences*.

For each example, compute df and complete the ANOVA table.

Assign symbols to response and explanatory variables, then write the model.

1. Calcium content of leaves measured in 4 discs from 4 randomly chosen leaves.(Box 12.2).



Symbol Name Model:

2. Calcium content of leaves measured from two discs per leaf, 3 leaves per plant, and 4 plants (Box 12.3)



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Symbol Name Model: