ANSC/TPSS 603 Assignment 7 - Components of Variance/Expected Mean Squares

An experiment is installed to evaluate the performance of 3 varieties of taro in a randomized complete block design with 3 replicates. The experiment is installed on 4 islands to test the varieties in different environments.

- 1. Write out the combined analysis of variance for this experiment over the 4 islands.
- 2. Write out the components of variance/expected mean squares for this combined analysis on the fixed model, the random model, and the mixed model with locations fixed and varieties random.
- 3. For the random model, show the appropriate F tests.