

Assignment 10

due Friday Dec 7, 2007.

Please solve the exercises 12.39, 12.40 on page 764.

Solve the exercises 13.27 and 13.28 on page 797. To rerun the analysis as a one way you need to create a new factor variable which has a different level at each combination of the two original factors. For example taking the product between the two factors and casting it as a new factor will accomplish this.

[BONUS] This problem is indicative of the type of problems you will see in the final exam.

Refer to the Data appendix. Look at the data description for 9 (Plants2) on page D-5. First analyze the correlation between the two response variables. Is it high? What does that tell you. Now look at the relationship of the first response variable (fbiomass) with the two factors present in the model. Is the interaction between the two factors significant? Are the two factors significant? What is the best level (combination) of factors that results in the highest level of biomass (fresh or dry or both?). What are the assumptions needed for this study? Are the assumptions satisfied?