Practical III GA

Using any software of your choice…data files are provided both as pure text files (can be opened in R and GLIM) and as excel files.

1. You are interested in the trade-off between reproductive effort and mortality in plants. In a series of plants (n=59), you have measures the number of flowers and the root volume during the summer and the recorded whether these plant individuals survived the coming winter. Assess the independent effects of reproductive effort (number of flowers) and root volume (a measure of resources uptake capability) on mortality! (flowers.xls / flowers.txt)

2. You have done assays of the rate of parasitism of insect larvae in three different habitats (6 replicates of each habitat), by collecting a number of larvae at each site and recording whether they are parasitized or not. At each site, you have also quantified population density of the insect in question. Do habitats differ in the rate of parasitism, does population density affects rate of parasitism and is the effect of density different in the three habitats? (larave.xls / larvae.txt)

3. You have treated replicated plots in a large grassland with a slug deterrent and placed tiles on these plots as well as on control plots with no addition of deterrent. You have then counted the number of slugs under each tile (n=40 for both the treatment and the control), and now wish to know if your treatment had a significant effect on slug density. (slugs.xls / slugs.txt)