

ANOVA Model Assignment

Using the "**SoybeanWorkshopProcessed.xlsx**" file:

- 1) Write out your anova model expressing the hypothesis about the potassium rate has an effect on K_pct (hint: think about just one location, and try to find the design of the experiment before writing the model).
- 2) Write out the hypothesis you are testing.
- 3) Fit a null model.
- 4) Fit the model written in (1) for location O2. Check the assumptions.
- 5) Check which is the best model (that fitted in 3 or that fitted in 4).
- 6) Do you accept or reject the null hypothesis?
- 7) Perform the pairwise comparisons.
- 8) Show your results depicting the pairwise comparisons using ggplot.