

This is a review question. It covers one of the topics we have previously studied this semester. It should help you review for the final exam.

Consider the InsectSprays dataset in R.

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> ?InsectSprays
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Test the hypothesis that the mean number of bugs killed by insecticides A, B, C, D, E, and F are all the same against the alternative that at least one mean is different.

The p-value of the test is less than showing that there is evidence to conclude that average number of bugs per agricultural experimental unit than the other sprays.

The appropriateness of the test is because the residual plot shows that the is and the Q-Q Plot suggests the errors are .

Thus, we should not make any conclusion about these insect sprays until next week when we can use the non-parametric version of ANOVA called the "Kruskal-Wallis Test." In other words, this test is inconclusive due to difficulties with the requirements not being satisfied.