

COMPARISON AMONG TREATMENTS MEANS IN EXPERIMENTAL GROUPS

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- **ABSTRACT:** The experimental groups analysis, of great importance in agriculture, are essential when intends to investigate the treatments behavior at multiple sites from researcher interest. Starts by the individual variance analysis in each site, to the grouping of all experiments in a single analysis. Examine the veracity of the significant treatments vs. sites interaction (TxL), being no-significant, are obtained generalized conclusions about the behavior of the treatments. The interest is in the cases where the interaction is significant, because two alternatives appear, the first one allows that the individual analysis results are considered with the specific residual from each site, while the second one advises, that the degrees of freedom relative to treatments + significant interaction be unfound, looking at the interpretation of the treatments inside each site, using the mean residual as test. The simulation of experimental groups allowed the construction of areas according to the number of treatments, blocks and sites, in which means groups of treatments are as effective if working with the individual analyzes, as well as with analysis after the split, and regions in which each of the presented methodologies is most suitable.
- **KEYWORDS:** Análise de grupos de experimentos; estudo de simulação; interação significativa; quadrado médio do resíduo.

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