

# Analysis of experiment in a generally balanced nested block design

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## Abstract

The aim of the study is to present practical aspects related to the analysis of an experiment carried out in a nested block design. The considered experimental design is characterized by the orthogonal block structure and has the property of general balance. Analysis of the experiment was based on the theorem presented by prof. Tadeusz Caliński in his paper: "On combining information in a generally balanced nested block design" and includes both stratum analysis based on basic contrasts and combined analysis allowing for combining data from a number of strata.

The experiment data used in the presented example originate from the experiment concerning evaluation of efficiency of some chemical substances in various concentrations in reduction of plant damages caused by slugs, *A. Lusitanicus*, and studying their influence on behavioral and physiological reactions of these slugs. The calculations were made with the use of the R platform.

## Keywords

Nested block design, Stratum analysis, Combining information.

## References

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