

**STATISTICAL ANALYSIS FOR ANIMAL BREEDING
DATA FROM ORDINARY LEAST SQUARES TO MIXED
MODELS**

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The primary purpose of this paper is to review the development that have occurred in statistical computing of linear models from the era of ordinary least squares to the era of mixed models. Some key statistical techniques are also reviewed.

Emphasis is made to animal model which consider the crucial starting point for developing an ideal model for any given data situation. An animal model can take so many different forms depending on the number of measurements per animal, the objectives of the study and whether genetic relationships exists among animals in the data.