



## SAS System for Mixed Models

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By Littell, Ramon C., Milliken, George A.,

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SAS System for Mixed Models. Littell, R.C.; Milliken, G.A.; Stroup, W.W.; Wolfinger, R.D., Cary, NC: SAS Institute Inc., 1996. 633pp.

SAS/STAT Software: Changes and Enhancements, Release 6.11, Cary, NC: SAS Institute, Inc. 1995. The SATTERTH option in the MODEL statement of MIXED requests calculation of degrees of freedom by the Satterthwaite procedure. SPD with whole-plot factor in a GRBD. GLM. Initially, the mixed-model capabilities in the SAS System depended on the MIXED procedure. Subsequently, the NLMIXED, HPMIXED, and GLIMMIX procedures were added. SAS/STAT software is a fully integrated component of the SAS System. PROC GLIMMIX and PROC MIXED are two of the most popular procedures in SAS/STAT software that fit mixed models. Most of the questions that SAS customers have about any of these mixed-modeling procedures can be categorized into the following areas PROC MIXED Contrasted with Other SAS Procedures. PROC MIXED is a generalization of the GLM procedure in the sense that PROC GLM is standard linear models, and PROC MIXED is the wider class of mixed linear models. Both procedures have similar CLASS, MODEL, CONTRAST, ESTIMATE, and LSMEANS statements, but their RANDOM and REPEATED statements differ (see the following paragraphs). Has been superseded by the Output Delivery System (ODS) none. SAS OnlineDoc, c: Version 8. 2098 Chapter 41. You can often make the same model using either REPEATED or RANDOM. This is a very confusing bit of SAS and they removed the confusion in GLIMMIX. To tell what your model is, you should write it out in matrix form; a lot of hints to how to do this are in the details section of the MIXED documentation. Share. Improve this answer. Follow. answered Feb 17 '18 at 15:14. Peter FlomPeter Flom. 1,89833 gold badges2020 silver badges3434 bronze badges. A linear mixed model ANOVA using the MIXED procedure of SAS (version 9.0) analyzed data for all parameters for a split-plot design where the main-plot treatment was the management system and the split-plot treatment was crop rotation (Littell, Milliken, Stroup, Wolfinger, & Schabenberger, 2006) after checking for normal distribution of residuals and homoscedasticity using the method as shown by Littell. Statistical analyses were performed by using the PROC MIXED procedure of the SAS 9.2 package for Windows (SAS Institute, Cary, NC, USA). The effects of sward height, period and the sward height  $\times$  period interaction were included as fixed effects, and the effect of blocks (replicate) was included as random effect (Littell et al.