

OLS level-1 coefficients were computed for only x of y units that had sufficient data for estimation

This message appears in the output file in the section where the OLS coefficients and starting values are given. It may also appear at the tables containing reliabilities, and at the tables with the final fixed and random effects. In all cases it is relevant only for the section of the output where the message is printed.

Note that when it appears at the final tables, it affects the chi-square values printed in these tables and generalization on the basis of these chi-squares are inadvisable if a sizable proportion of the units is excluded during the chi-square calculations.

The usual cause of this message is a lack of variability within higher level units. For example, consider level-2 model with schools as the level-2 units and students as the level-1 units. If, for a given school, all students are of the same gender this may cause the problem. The following error message may also subsequently appear.

There is a problem in the fixed portion of the model. A near singularity is likely. Possible sources are a collinearity or multicollinearity among the predictors. We suggest that you examine a correlation matrix among the fixed effect predictors

This error message indicates that there are some of the fixed effects that have essentially the same relationship with the outcome variable. For more on this topic, see the [FAQ on multicollinearity](#).