

Corrected Total vs. Total in Factorial ANOVA using SPSS GLM

Applied statistics: from bivariate through multivariate techniques By Rebecca M. Warner



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Factorial Analysis of Variance 521

The source tables produced by the **GLM** procedure in **SPSS** contain additional lines. For example, **SPSS** reports a sum of squares for the combined effects of A , B , and the interaction of $A \times B$; this combined test (both main effects and the interaction effect) is rarely reported in journal articles. There is a difference in the way **SPSS** (and some other programs) labels SS_{total} compared with the notation used here and in most other statistics textbooks. The term that is generally called SS_{total} (here and in most other statistics textbooks) is labeled **Corrected Total** on the **SPSS** printout. The term that **SPSS** labels " SS_{total} " was calculated by taking $\sum(Y_{ijk} - 0)^2$ —that is, the sum of the squared deviations of all scores from 0; this sum of squares can be used to test the null hypothesis that the grand mean for the entire study equals 0; this term is usually not of interest. When you read the source table from **SPSS GLM**, you can generally ignore the lines that are labeled **Corrected Model**, **Intercept**, and **Total**. You will use the SS value in the line that **SPSS** labels **Corrected Total** as your value for SS_{total} if you do a by hand computation of η^2 effect size estimates.

13.6 Conceptual Basis: Factors That Affect the Size of