

FORMULAS ANOVA

$$\text{Suma de Cuadrados Total } (SC_{Total}) = \sum_{i=1}^k \sum_{j=1}^n y_{i,j}^2 - C$$

$$C = \frac{(\sum_{i=1}^k \sum_{j=1}^n y_{i,j})^2}{N}$$

$$\text{Suma de los Grupos } (SC_{Grupos}) = \sum_{i=1}^k \frac{(\sum_{j=1}^n y_j)^2}{n_i} - C$$

$$\text{Suma de Cuadrados del Error } (SC_{Error}) = SC_{Total} - SC_{Grupos}$$

$$\text{Cuadrados Medios de Grupos } (CM_{Grupos}) = \frac{SC_{Grupos}}{gl_{Grupos}}$$

$$\text{Cuadrados Medios de Error } (CM_{Error}) = \frac{SC_{Error}}{gl_{Error}}$$

$$F_{\text{observado}} = \frac{CM_{Grupos}}{CM_{Error}}$$

$$\text{Tukey } q_{\Delta} = \frac{\bar{x}_a - \bar{x}_b}{\sqrt{\frac{CM_{error}}{r}}}$$

$$d.m.s. = q_{\text{tabla}} \cdot \sqrt{\frac{CM_{error}}{r}}$$