Formulas para el Diseño Completamente Aleatorizado

Fuente de Variación	g.l.	SS	CM	Fc
Tratamientos	k-1	$SCTr$	$CMTr = \frac{SSTR}{k-1}$	$Fc = \frac{CMTr}{CME}$
Error	N-k	SCE	$CME = \frac{SSE}{N-k}$	
Total	N-1	STC		

Donde

$$STC = \sum_{i=1}^{k}\sum_{j=1}^{n_i}(y_{ij} - \bar{y}_{i.})^2 = \sum_{i=1}^{k}\sum_{j=1}^{n_i} y_{ij}^2 - \frac{y_{..}^2}{N}$$

$$SCTr = \sum_{i=1}^{k} n_i(\bar{y}_{i.} - \bar{y}_{..})^2 = \sum_{i=1}^{k} \frac{y_{i.}^2}{n_i} - \frac{y_{..}^2}{N}$$

$$SCE = STC - SCTr$$

Formulas para el Diseño en Bloques Completamente Aleatorizado

Fuente de Variación	g.l.	SS	CM	Fc
Tratamientos	$k-1$	$SCTr$	$CMTr = \frac{SSTR}{k-1}$	$Fc = \frac{CMTr}{CME}$
Bloques	$b-1$	SCB	$CMB = \frac{SSB}{b-1}$	$F_c^* = \frac{CMB}{CME}$
Error	$(k-1)(b-1)$	SCE	$CME = \frac{SSE}{(k-1)(b-1)}$	
Total	$N-1$	STC		

Donde

$$STC = \sum_{i=1}^{k}\sum_{j=1}^{n_i} y_{ij}^2 - \frac{y_{..}^2}{N}$$

$$SCTr = \sum_{i=1}^{k} \frac{y_{i.}^2}{b} - \frac{y_{..}^2}{N}$$

$$SCB = \sum_{j=1}^{b} \frac{y_{.j}^2}{k} - \frac{y_{..}^2}{N}$$

$$SCE = STC - SCTr - SCB$$

$$LSD = t_{\alpha/2} * \sqrt{\frac{2*CME}{b}} \quad con\ v = grados\ de\ libertad\ del\ error$$

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