ANOVA Tables

N: total # of obs.

· One-way ANOVA

Source	0 F	SS	
Factor A	Q ₃ -1	$N\overline{y}^2$. (SSA)	
	N-c	Z Z (yij - yi.)	2 (SSE)
Error	14 00	$\sum_{i=1}^{n} j=i$	(/

Source DF
SSA SSA (Ca-1)

Factor A
$$a-1$$
 SSB SSB/(b-1)

Factor B $b-1$ SSB SSI/($a-1$)(b-1)

Interaction $(a-1)(b-1)$ SSE SSE/[$a-1$)(b-1)]

ab(n-1) SSE SSE/[ab(n-1)] Error

SSA = bn
$$\frac{2}{3}(\overline{y}... - \overline{y}...)^2$$

SSB = an $\frac{2}{3}(\overline{y}... - \overline{y}...)^2$
SSI = n $\frac{2}{3}(\overline{y}... - \overline{y}... - \overline{y}... + \overline{y}...)^2$
SSE = $\frac{2}{3}(\overline{y}... - \overline{y}... - \overline{y}...)^2$