Table 10.1 Data layout for a RCB design with p levels of factor A (treatments $i = 1$ to p) and q levels of factor B (blocks $j = 1$ to q) and n equals one in each cell

	A 1	A 2	A 3	A i	Block marginal means
Block 1	y_{11}	y_{21}	y_{31}	y_{i1}	$\bar{y}_{j=1}$
Block 2	y_{12}	y_{22}	y_{32}	y_{i2}	$\bar{y}_{j=2}$
Block 3	y_{13}	y_{23}	y_{33}	y_{i3}	$\bar{y}_{j=3}$
Block j	y_{1j}	y_{2j}	y_{3j}	y_{ij}	$\bar{y}_{j}$
A marginal means	$\bar{y}_{i=1}$	$\bar{y}_{i=2}$	$\bar{y}_{i=3}$	$\bar{y}_{i}$	Overall mean $\bar{y}$