1. Own Performance } same animal, limited use in
2. Repeated Records }   dairy cattle
3. Progeny Records   comes from breeding programs in
                                       dairy cattle

□ Data set

	daughters — halfsibs				Average across offspring
Animal i (Bulls)	offspring 1	offspring 2	· · ·	offspring k	
1	y_{11}				$\bar{y}_1$
2					$\bar{y}_2$
⋮					
N					$\bar{y}_N$

□ Regression to predict breeding values:
→ Predicted breeding value of animal i:

$$\hat{u}_i = b(\bar{y}_i - \mu) \quad ; \quad b = \frac{cov(u_i, \bar{y}_i)}{var(\bar{y}_i)}$$

where $\bar{y}_i = \frac{1}{k} \sum_{j=1}^{k} y_{ij}$