

- Predicted Breeding value \hat{u} is a prediction associated with a certain error. This error is quantified by the accuracy of u which is defined as the correlation $r_{u,y}$ of the true breeding value and the source of information (y)

$$r_{u,y} = \frac{\text{cov}(u,y)}{\sqrt{\text{Var}(u)} \cdot \sqrt{\text{Var}(y)}} = \frac{\text{var}(u)}{\sqrt{\text{Var}(u)} \cdot \sqrt{\text{Var}(y)}} = \sqrt{\frac{\text{Var}(u)}{\text{Var}(y)}} = h$$

- Other measure reliability $B = r_{u,y}^2 = h^2$
(Bestimmtheits mass)