In practice: . We can use phenotypic (14) observations together (with developed linear mixed effect model to predict breeding values.

- Different prediction method are available, differing mostly in their complexity and ability to model different structures in available data.

- Simplest case: Assume one phenotypic observation per animal for one given (trait). Based on phenotypic data predict breeding values.

Regression of u on y

Predictions are then done based on regression model

Animal i has weight $y_i = 297$

$y_i = 297$

weight

$\hat{u}_i$

u

y