

Estimation of the variance components – BonD

Trait studied

- Calving traits

Stillborn, calving ease, calving size
First and other parity

- Carcass traits

Male and female separated
Carcass fat score, Daily carcass gain (550 days),
Carcass conformation score

- Slaughter traits

Male and female separated

- Feed efficiency

Weight and DFI

- Methan

- Health

- Eating quality

Marbling score 1, 2 and 3

Recorded in both Angus (ANG) and Belgian Blue (BBL)

Models

Both Sire and Animal model

Per breed or all breeds together (Breed effect)

All traits but Feed traits

Feed traits

$$y = Xb + Za + e$$

$$\text{weight} = Xb + ZL(t)a + WL(t)p_e + e$$

$$\text{DFI} = Xb_1 + XL(t)b_2 + ZL(t)a + Wp_e + e$$

Pairwise estimation of the correlation

Models

Animal model / All breed together

