Animals with book genetic, component identified using statistical models. Unknown genetic components are estimated In statistical models: given known plenotypic observations, known pedigree rephanships and known genoky pes for marker positions. · In stochastic relationships, there is always a certain level of uncertainty, furthermore not all infruence factors are known. Hener we need statistical modelling to account for uncertainty and to file the most important infuence factors. . Statistical Model: Response variable y: Pheno typic observations of trait of interest

D Predictor variables: x1, x2,-xx

( Methorie, Kelosis)