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Data

Cow	Observations
1	$y_1$
2	$y_2$
$\vdots$	$\vdots$
$i$	$y_i$
$\vdots$	$\vdots$
$N$	$y_N$

Model: Sire Model

$$y_i = \mu + b + s_i + e_i$$

$y_i$ : Observation of cow  $i$

$\mu$ : Intercept

$s_i$ : Value of random sample of alleles passed from sire  $s$  to offspring  $i$

$e_i$ : random residual

