



Genotypes Available

Panel	Number of Genotyped Animals
9K	762
20K	969
70K	14
770K	24

How does a breed with 5,000 registrations per year include genomics in their evaluation?

"All models are wrong, but some are useful."

George Box

Santa Gertrudis GE EPDs

- Released April 2014
- Utilized GBLUP
- Has created an immense amount of excitement within the breed

Over 1300 samples currently being processed from SGBI breeders.

What is GBLUP?

$$\begin{bmatrix} X'R^{-1}X & X'R^{-1}Z \\ Z'R^{-1}X & Z'R^{-1}Z + H^{-1} \otimes G_0^{-1} \end{bmatrix} \begin{bmatrix} \hat{b} \\ \hat{u} \end{bmatrix} = \begin{bmatrix} X'R^{-1}y \\ Z'R^{-1}y \end{bmatrix}$$

$$H^{-1} = A^{-1} + \begin{bmatrix} 0 & 0 \\ 0 & G^{*-1} - A_{22}^{-1} \end{bmatrix}$$

Standard EPDs





