# Beef Improvement Federation Genetic Prediction Committee

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## Inclusion of Genetic Prediction in to National Cattle Evaluation, Hereford

- First inclusion was done on Fall 2012 NCE and the correlations were based off of about 1100 high accuracy bulls.
- Spring 2013 NCE was run with the same correlations.
- April 2013, updated the correlations based off of nearly 3500 animals.
- Post Evaluation blending method is used today.

### Inclusion of Genetic Prediction in to National Cattle Evaluation, Hereford

- Fall 2013, will include Genomic component into evaluation so it will affect animals up and down the pedigree.
- May 1, 2013 the AHA switched from the 50K chip to the HD 77K chip offered by GeneSeek which includes, parentage, genetic abnormalities and GE-EPD.

#### New vs Old (added over 2000 new bulls to training) CE .33 .68 BW .40 .68 ww .34 .52 .33 .60 MM .37 .21 MCE .18 .51 MCW .64 FAT .43 .48 RFA .25 .49 MARB .41 .43

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# Where to find Hereford animals that have GE-EPD

- Animals are recognized on the web with
- The EPD Inquiry can be used by a quest and animals can be "sort if"

## **Future Development**

- Continue to look at ways for better inclusion.
- Work with other Pan American countries to develop tests that work across continents.
- Sequencing and identifying possible causative genes or at least genes with large affects.
- Continue to collect phenotypes through Whole Herd TPR

# Recognition

- NBCEC (Dorian Garrick, Mahdi Saatchi)
- USMARC (John Pollak, Mark Thallman, Larry Kuehn)
- Jerry Taylor
- Dan Moser
- Matt Spangler
- Mike MacNeil
- AGBU, ABRI
- GeneSeek
- AHA staff and BOD