



Why Do the Largest Cow-calf Producers Calculate Within-herd EPDs?



- I believe that several of the largest cow-calf operations have seedstock divisions and have within-herd EPDs calculated for them.
- I speculate this is because they do not believe their needs are being met by the purebred cattle industry.



Fertility EPDs



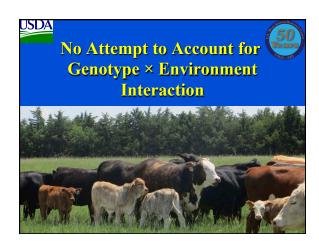
- Stayability was a great first attempt and it has had the desirable effect of transitioning the seedstock industry to whole-herd reporting.
- But, if it has ever been viewed as the ultimate goal, we have aimed too low.
- And culling open cows is not the answer.



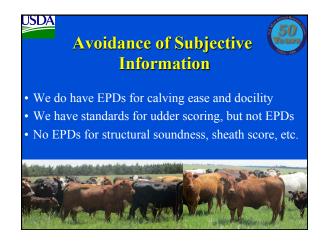
Model for 1st Class Fertility EPDs



- Fit Days to Calving and Preg/Open as separate traits.
- Fit 1st, 2nd, and later parities each as a separate pair of traits.
 - 6-trait model
- Data requirements are not absent, but they are feasible (in my opinion).
 - And, there is no out-of-pocket measurement cost!







Why Don't We Reward Breeders for Submitting High Quality Information?

- Breeders who submit high quality information could have higher accuracies.
- Those who do not or where there is evidence of bias could have lower accuracies and their animals EPDs could correspondingly be shrunken more toward the mid-parent mean.
- This could be done statistically as part of the evaluation.

Why Don't We Take Advantage of Orders of Magnitude of Improvements in Computing Power

- I seriously doubt that any National Cattle Evaluation currently run could not be calculated on a smartphone, if the software to do it was written.
- We could run far more sophisticated models on high-end computing hardware and I believe we could improve accuracy and utility.

Why Do We Assume that NCE has to run in Software Written Specifically for this Task?

- I believe there is software that is capable of applying far more sophisticated models to the volume of data that we have.
- We no longer qualify as "Big Data".



• Reranking bulls does not imply progress, but it is an inevitable consequence of progress.

