U.S. Genetic Trends, Production Numbers and Discussion on How Breed Associations May Need to Adapt

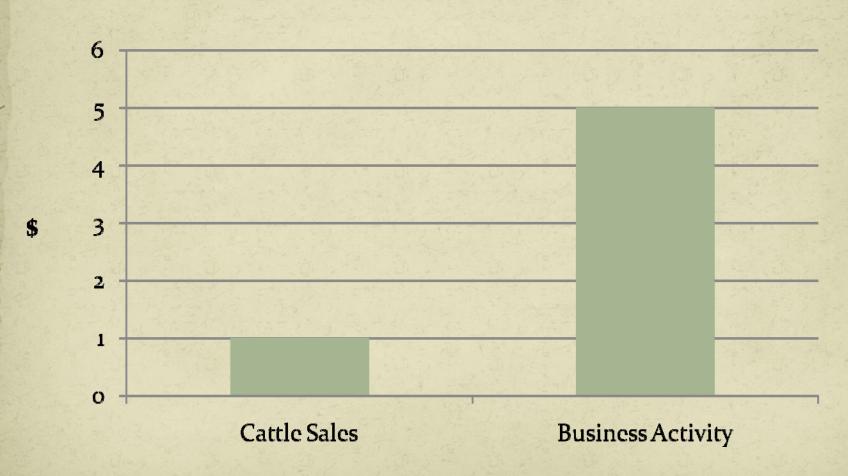
Robert Williams, Ph.D.

American-International Charolais Association

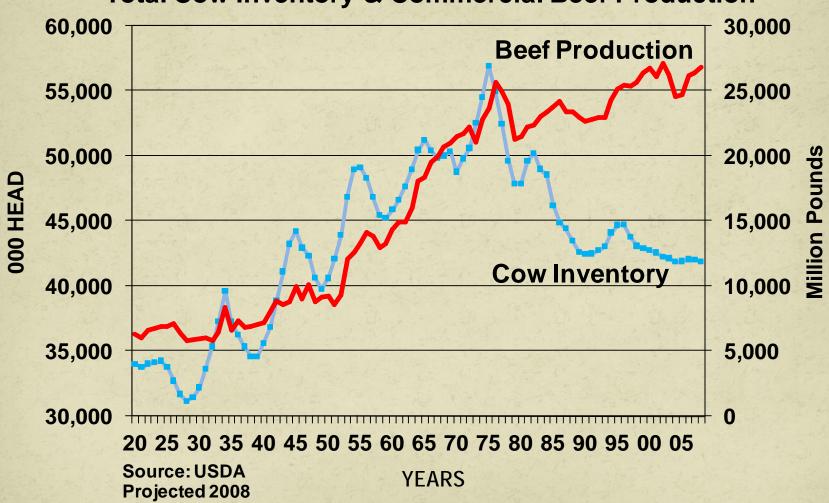
Director of Breed Improvement and Foreign Marketing



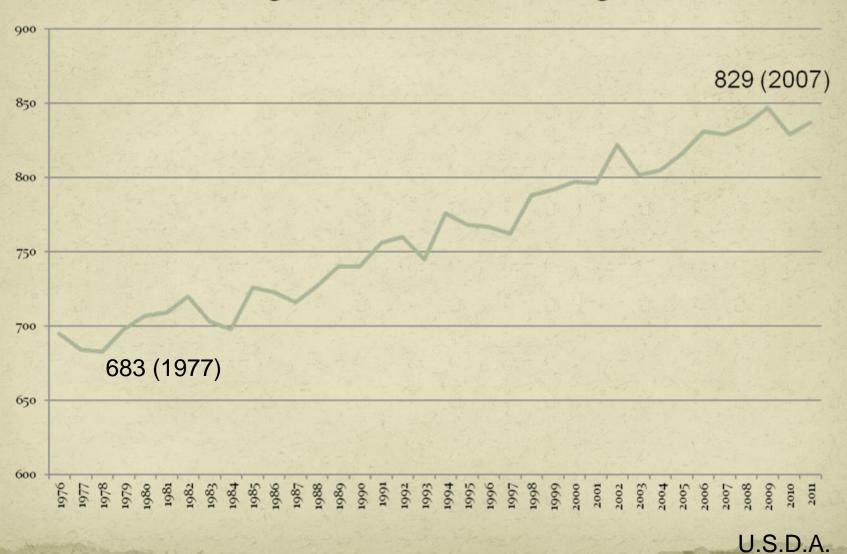
Economic Impact of U.S. Beef Industry







U.S. Average Dressed Carcass Weight - Steers

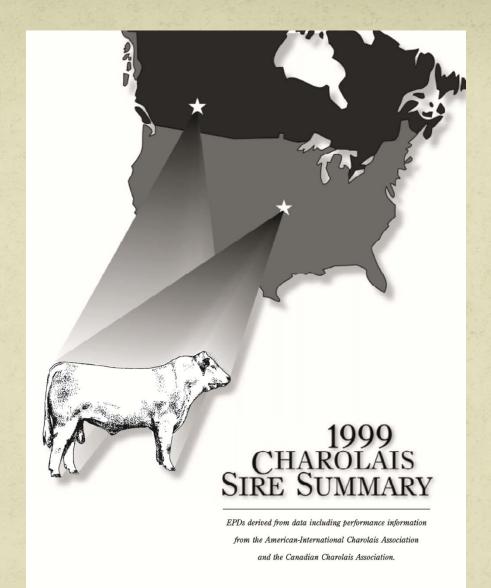


Genetics

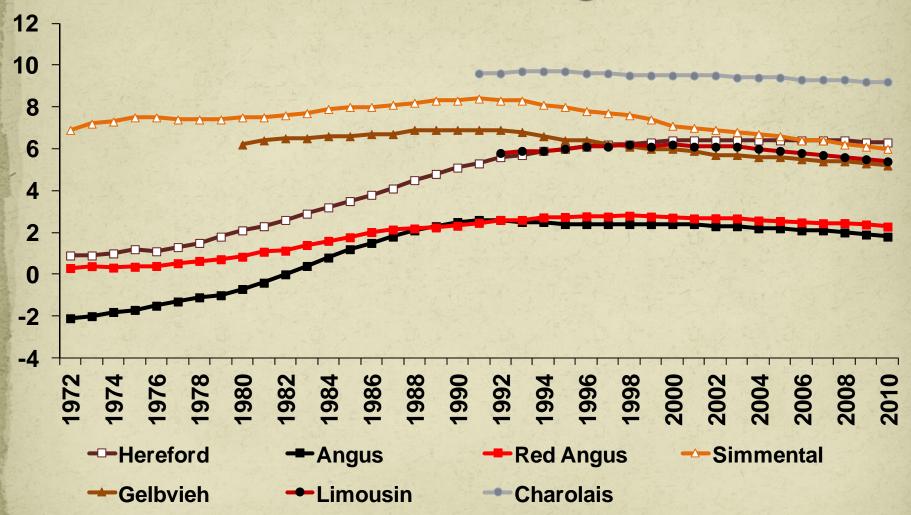
Health

Nutrition

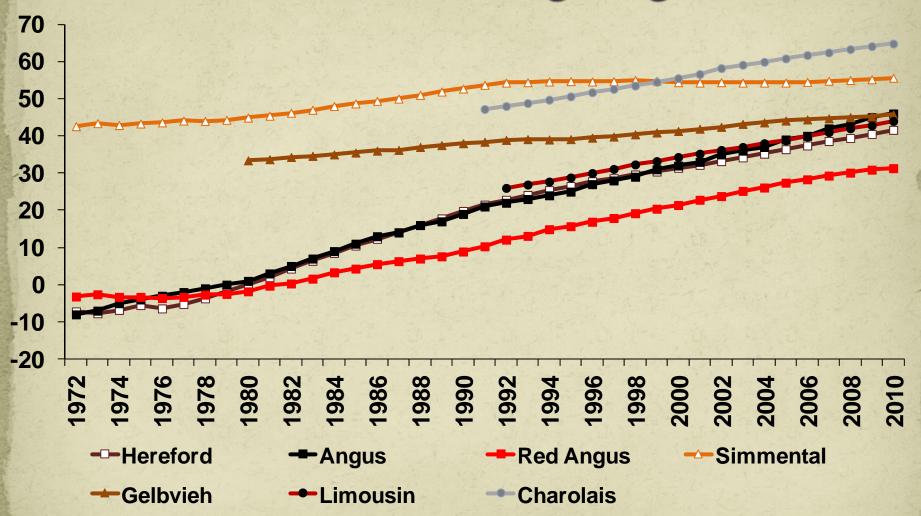
Management



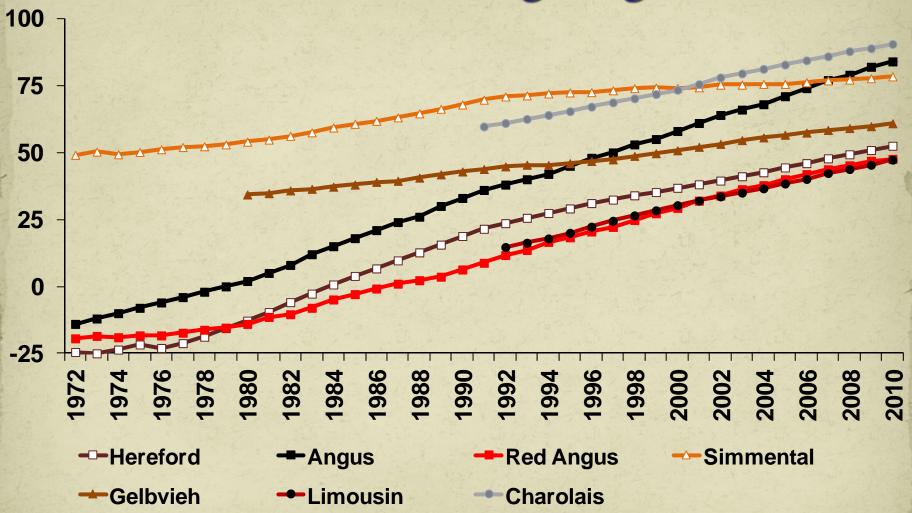
Genetic Trends for Birth Weight, lb



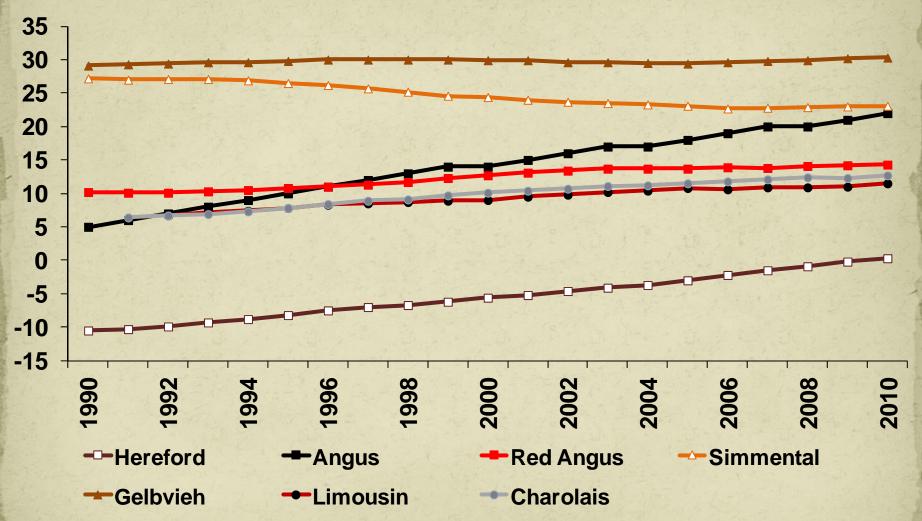
Genetic Trends for Weaning Weight, lb



Genetic Trends for Yearling Weight, lb



Genetic Trends for Maternal Milk, lb



Challenges Facing Beef Breed Associations

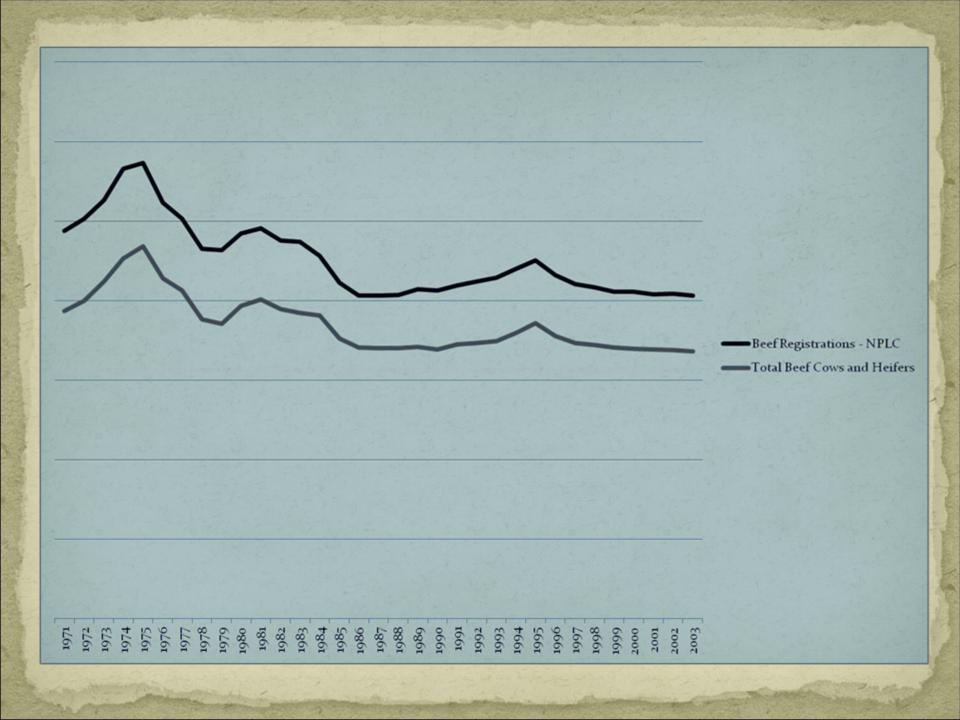
Association Membership Profile

 Most US Beef Breeds have opted for a inventory based program

Charolais

- Less than 5% of our membership accounts for 50% plus of the total registrations
- 53% of our membership opts for a registration only program (non-performance) – and accounts for 8% of the registrations





Decreasing Beef Cow Inventory and it's Impact on U.S. Beef Breed Budgets

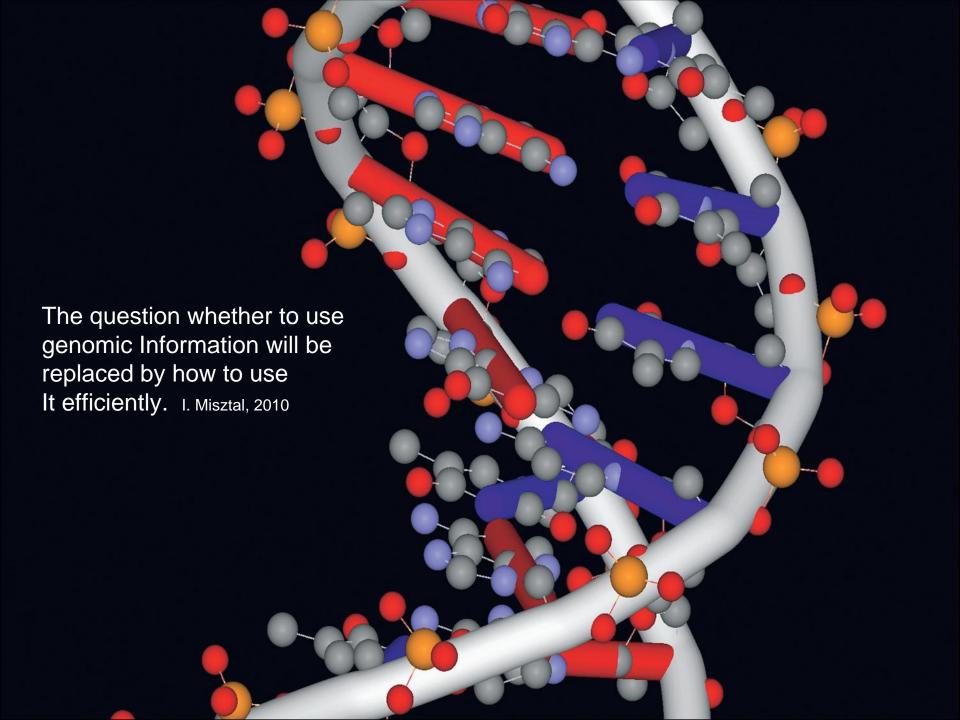
- The industry needs approximately 400,000 fewer bulls today than it did in 1975
- The decreasing size of commercial beef cow numbers is the direct cause for a loss of approximately 430,000 registrations for U.S. Beef Breed Associations from 1975
- This accounts for a direct loss of income to breed associations of approximately \$ 11,000,000 annually

Genetic Evaluation Services

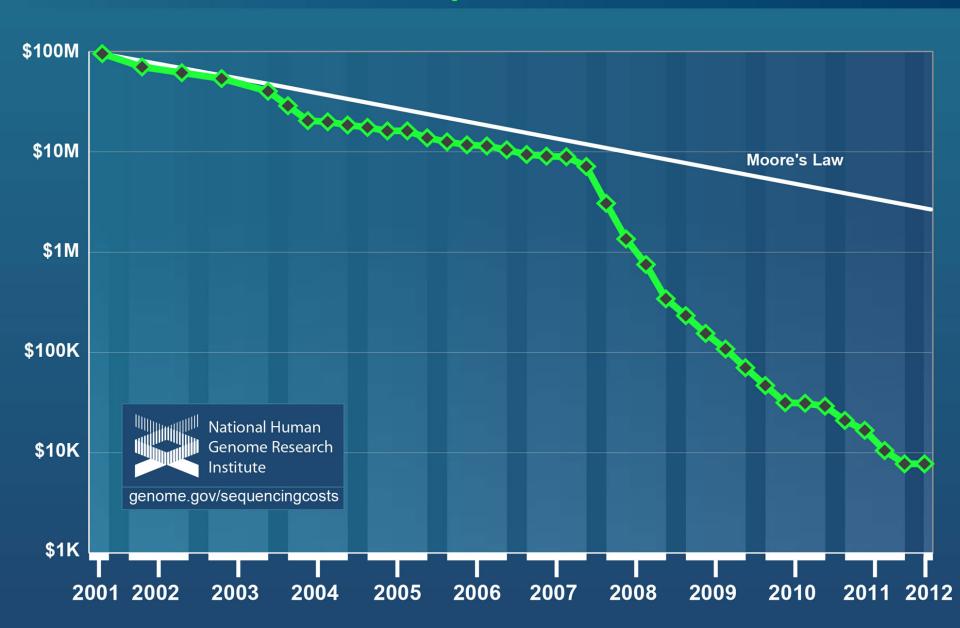
- Beef Breed Associations in cooperative efforts with a few Land Grant Universities have been the driving force behind genetic evaluations
- More responsibility in recent years has been shifted to the industry to support the development of genetic evaluation tools and take on the responsibility of identifying new genetic evaluation service providers

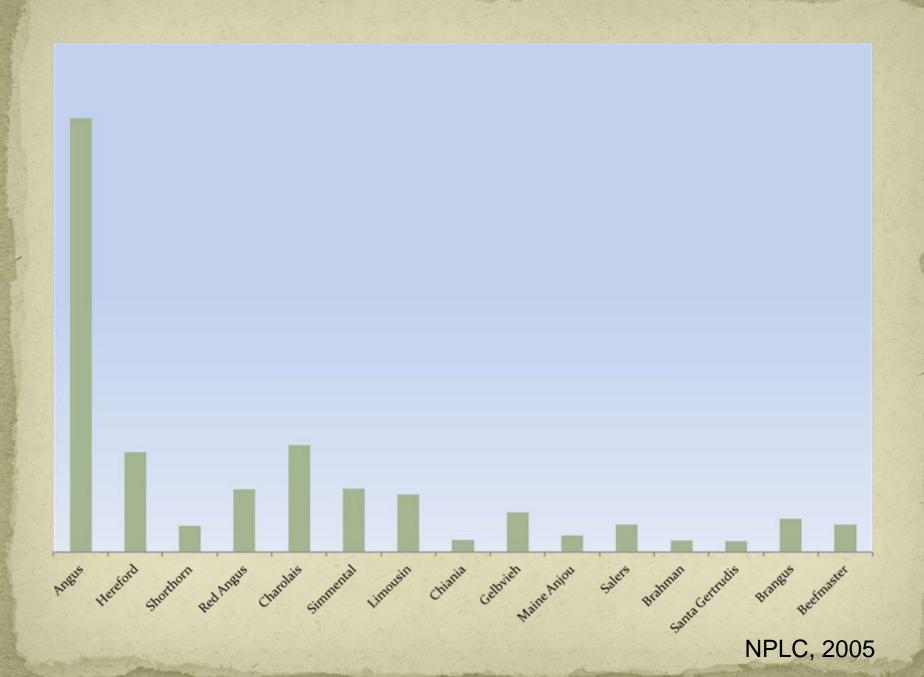
Data complexity





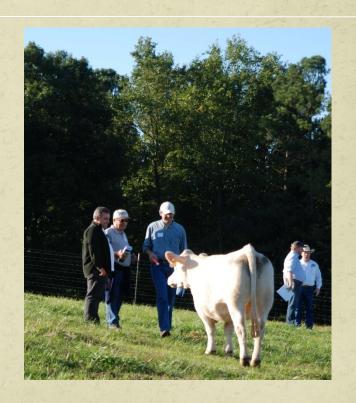
Cost per Genome





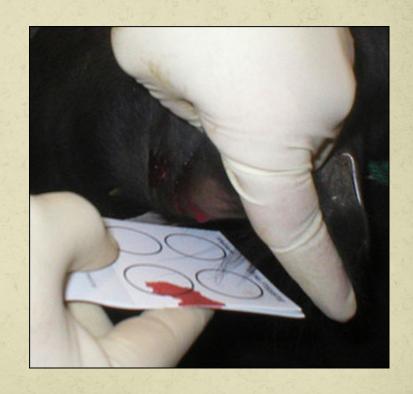
Summary

 Continue to measure, report and expand the capture of phenotypes for existing and new traits that will keep our industry competitive



Summary

Support research and education initiatives into technology that address sustainability, efficiency, production and healthfulness of beef to better characterize the genetics of our beef populations



Summary

- Identify and adopt synergies between associations and between researchers to reduce duplication
- Domestically and Internationally

