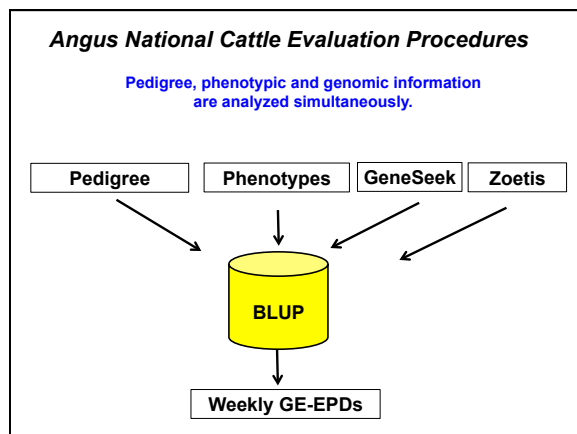
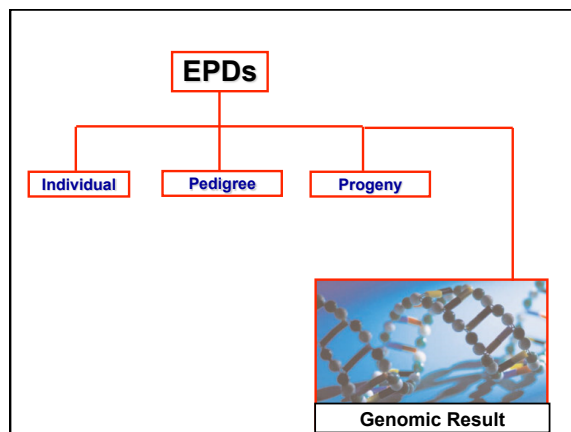



Genomic-Enhanced EPDs

Sally L. Northcutt
Angus Genetics Inc.
American Angus Association

June 14, 2013
BIF Convention, Oklahoma City

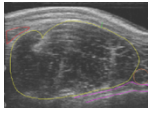


Harvest Data




97,035 carcasses

Ultrasound Measures



1.5 million scans

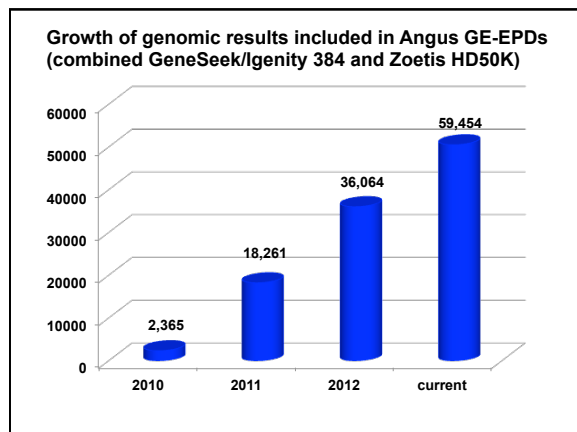
Genomic Results




~60,000 DNA results

Generate over 2.4 million weekly carcass EPDs




**American Angus Association
Carcass Genomic-Enhanced EPDs**
GE-EPDs are generated for Carcass Weight, Marbling, Ribeye, and Fat







How Have Breeders Used Genomic Tests?




Standard Equipment for Sire Selection

How Have Breeders Used Genomic Tests?

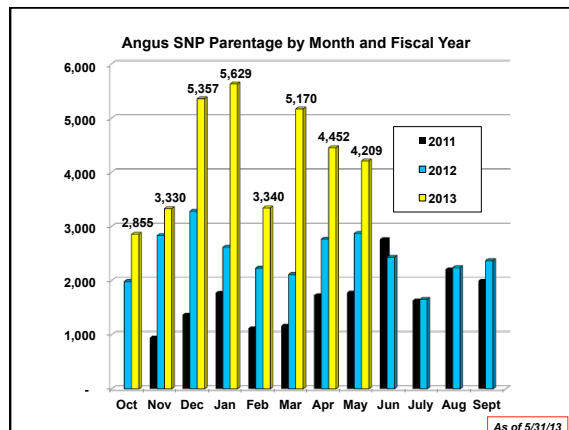


Cow Production Record

Calves Identification				Birth		Weaning	
Cow's Own Record	Birth Date	Birth Weight (Lbs)	Birth Date	Birth Weight (Lbs)	Weaning Weight (Lbs)	Weaning Age (Days)	
0228	02/21/00	87	03/02/03	109	211	117	
BIR 617352560B	02/07/02	81	03/02/03	109	211	117	
AAA 14612481B	03/02/03	109	03/02/03	109	211	117	
0228	04/20/04	88	03/29/05	92	188	114	
BIR 618222910B	03/20/06	92	03/20/06	92	205	108	
0228	10/11/07	118	10/11/07	118	205	110	
AAA 15267670B	10/28/08	100	10/28/08	100	193	104	
AAA 15643309C	10/12/09	103	10/12/09	103	215	82	
AAA 16338748B	10/23/10	113	10/23/10	113	219	99	

Genomic Results
2013 Born Heifer Calf
Before Individual
Record

Building Accuracy Earlier in Life



How Have Breeders Used Genomic Tests?

- Improved selection tools for use in genetic improvement
- Rapid weekly EPDs and indexes
- Genetic values for traits that are difficult to measure
- Genetic differences in ET siblings and small contemporary groups
- Donor selection process
- Improved accuracy of prediction for nonparent animals

