

The Role of Genetic Evaluation Technology in Enhancing Global Competitiveness – An A I Company Perspective

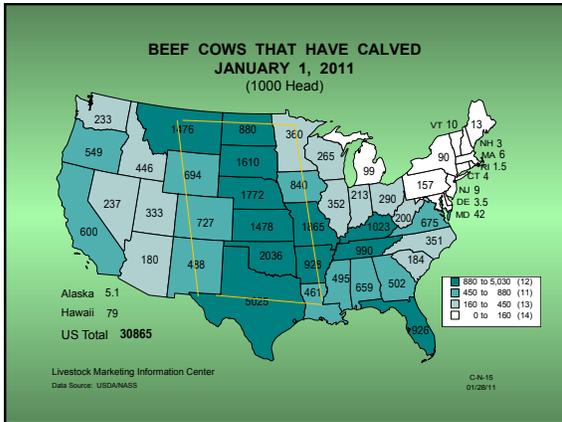
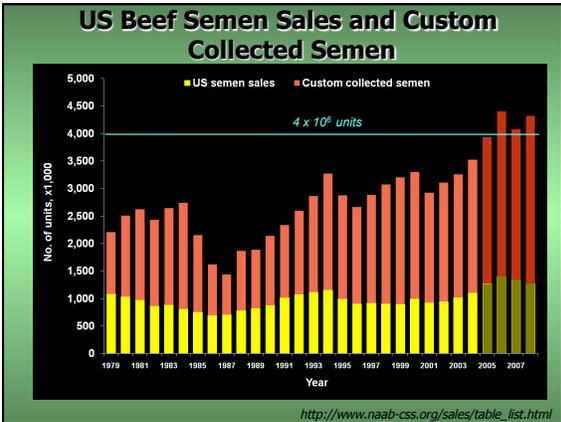
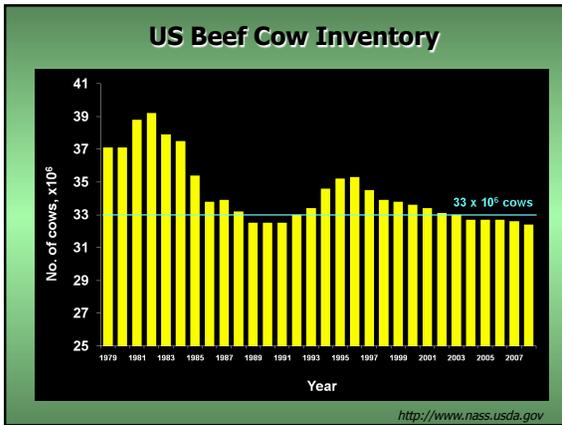


U.S. Semen (NAAB)

	<u>NAAB Sales</u>	<u>Custom Collection</u>
• Dairy	21,655,408	2,584,292
Dairy Total	24,239,700	
• Beef	1,229,798	2,454,358
Beef Total	3,684,156	

U.S.

- 30.9 Million Beef Cows
 - < 5% A.I.
- 5.5 Million Beef Heifers
 - Approaching 15% A.I.



Global A.I. & Beef Cow Numbers

- U.S. – 30.9 Million Cows
- Canada – 4.3 Million Cows
- Australia – 13.3 Million Cows
- Argentina – 18.4 Million Cows
- Brazil – 53.7 Millions Cows

Canada 4.3 Million Beef Cows



Canada

- 4.3 Million Cows
- 0.5 Million Heifers
- Similar to the U.S. in it's A.I. use
- Use of EPDs and Genetic evaluations??
 - Different by breed
 - Good uptake by commercial breeders using A.I.

Canada



Australia

13.3 Million Beef Cows
Second Largest Exporter of Beef, Only Behind Brazil



Australia

- Heavy use of A.I. in the south east
- Emphasis of the use of EPDs and carcass EPDs due to the influence of the Asian market

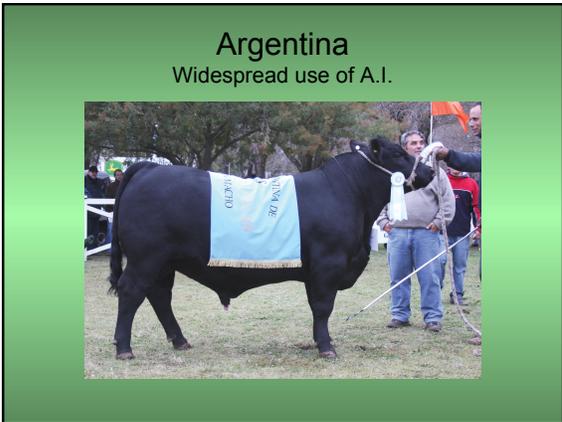
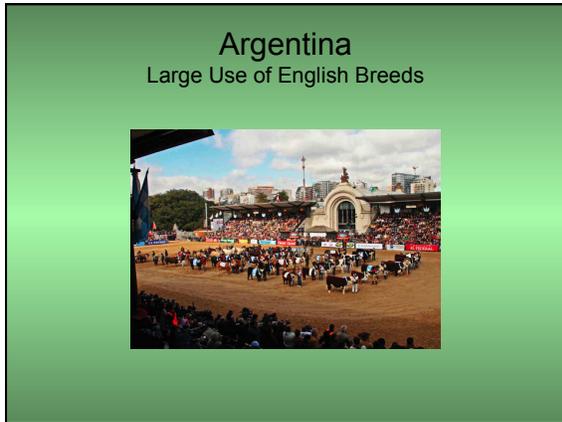
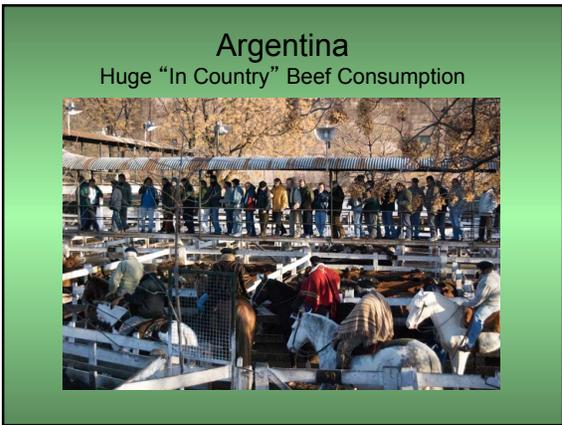


Australian Bull to the U.S.

- Dunoon Evident E614 – AMF, NHF, CAF

Sire: Te Mania Bartel by B/R New Dimension 7127

MGS: Dunoon High Mark Y262 by Garden's High Mark



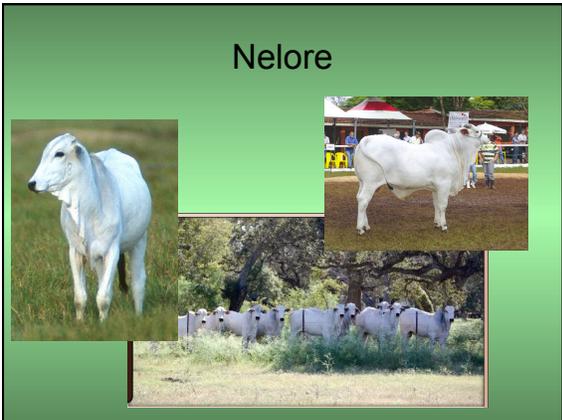


- Brazil**
- 53.7 Million Beef Cows
 - Very large and diverse country and cattle types
 - Zebu (Nelore) in the north and English (Angus and Hereford) in the south
 - A.I. use is very high due to –
 - Lower labor costs
 - Higher use of heat synchronization systems

Brazil (Units)

	Domestic	Imported
• Semen		
• Nelore	2,199,439	0
• Nelore (polled)	196,916	30
• Angus	329,747	854,859
• Red Angus	226,354	331,825
• Brahman	167,423	15,348
• Braford	106,962	10,134
• Guzerat	96,410	0
• Simmental	61,800	21,470
• Beef Total	3,842,910	1,392,938
• Grand Total Beef	5,235,848	

Source 2010 ASBIA



- Australian/U.S. export to Brazil & Argentina**
- At one time the U.S. “owned” the Angus, Red Angus, Hereford semen market in Brazil and Argentina
 - Perception is increasing competition from genetic evaluations and two gene pools
 - Gene pools are quite similar
 - Cooperation by genetic evaluation systems could have been/could be stronger

