

40 Years of Beef A.I.

Dr. Bob Walton

1

Pre-1960

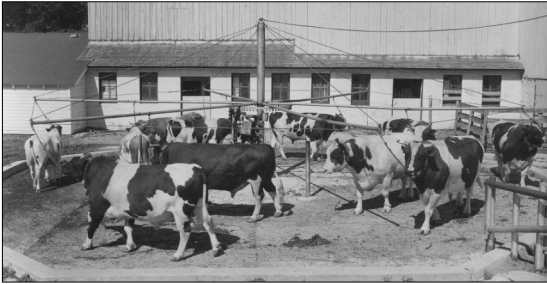


1946 NAAB Established



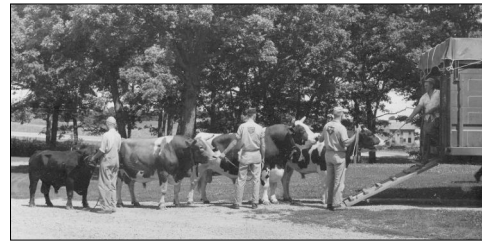
2

Pre-1960



3

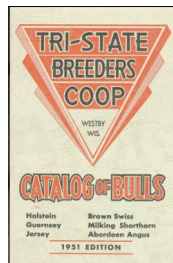
Pre-1960



4

Pre-1960

1951 First beef bulls in the ABS lineup



5

Pre-1960 In the Beginning

- Little individual performance data
- No progeny performance data
- No synchronization options
- Relied on technicians
- Choice of Angus or Hereford
- One price and no individual bull choice



6

1960s

1960 1970 1980 1990 2000 2010 7

1960s

1960 1970 1980 1990 2000 2010 8

1960s

1961 ABS Initiates large scale progeny test program

- Multi herd large contemporary group comparisons
- Included both performance and carcass traits

Dr. Ray Woodward

1960 1970 1980 1990 2000 2010 9

1960s

Structured Progeny Test vs 15 Sires

- Tested for
 - Birth Weight
 - Weaning Weight
 - Feedlot Gain
 - Quality Grade
 - Ribeye Area
 - Fat Cover

1960 1970 1980 1990 2000 2010 10

1960s

1965 The beginning of the "Exotic Era"

- First Charolais bulls Bramard and Dessauy from France in 1965
- Bismark is ABS' first Simmental bull imported when Switzerland opens up in 1966

1960 1970 1980 1990 2000 2010 11

1960s

1965 1st Progesterone based Synchronization Programs

Repro-Mix

Without prostaglandins and understanding of follicular development these systems yielded sub par results

1960 1970 1980 1990 2000 2010 12

1960s

Mid 1960s A.I. Management Schools trained Ranchers

13

1960s

Beef Improvement Federation
Founded
1967

14

1960s

Beef A.I. in the U.S.

Year	AI Service Breedings	Domestic Sales
1960	~200,000	~100,000
1961	~300,000	~150,000
1962	~400,000	~200,000
1963	~500,000	~250,000
1964	~600,000	~300,000
1965	~700,000	~350,000
1966	~800,000	~400,000
1967	~1,000,000	~500,000
1968	~1,200,000	~600,000
1969	~1,400,000	~700,000
1970	~1,600,000	~800,000

15

1970s

1975 NAAB Sales

AN	30%
SM	23%
HP	8%
MA	5%
CH	5%

16

1970s

Early 1970s Development of longer holding time tanks

17

1970s

1971 First Simmental Sire Evaluation Report

NATIONAL SIRE SUMMARY
1971

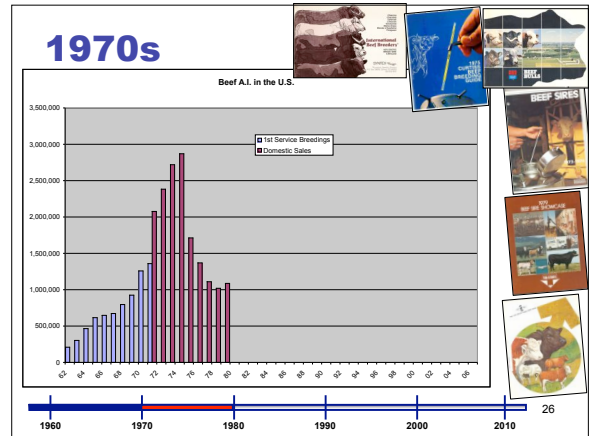
18

1970s

CSS[®]
CERTIFIED SEMEN SERVICES

1975 CSS Established

1960 1970 1980 1990 2000 2010 25



1980s

1985 NAAB Sales	
AN	39%
SM	18%
HP	16%
LM	3%

1960 1970 1980 1990 2000 2010 27

1980s

1980 Introduction of Prostaglandins for Synchronization of Beef Cattle

1960 1970 1980 1990 2000 2010 28

1980s

1983 Introduction of Synchro-Mate-B for Synchronization of Beef Cattle

1960 1970 1980 1990 2000 2010 29

1980s



Mid 1980s Dry Shippers Enhance Distribution

1960 1970 1980 1990 2000 2010 30

1980s

Late 1980s MGA & Prostaglandin programs adopted

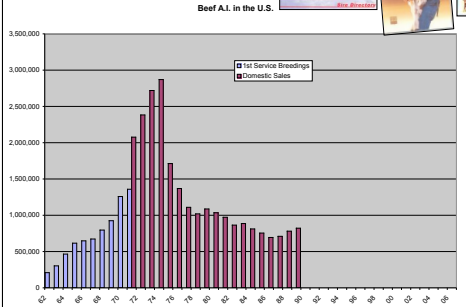

Combination of MGA and prostaglandin provides cheap and reliable means of heifer synchronization. This combined with reliable birth weight EPDs and a push back against the bigger birth weight genetics of the 70's & 80's fuels strong growth in heifer A.I.

31


1980s

Beef A.I. in the U.S.





32

1990s



1995 NAAB Sales	
AN	60%
SM	10%
HP	8%
AR	5%

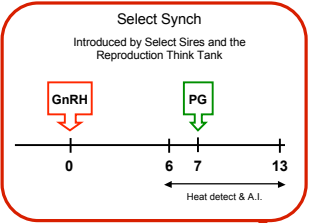



33

1990s

1998 1st GnRH based synchronization systems


Select Synch
Introduced by Select Sires and the Reproduction Think Tank

34

1990s


1998 1st Ultrasound Genetic Evaluation



2002 Angus Sire Evaluation Data

Genosis 3 herds/4 progeny				Ultrasound 50 herds/212 progeny						
TRAIT:	CW	Marb	REA	Fat	%RP	IMB	REA	IT	RAMP	%RP
EPD:	+.7	-.02	+.17	-.03	+.38	+.11	+.13	+.00	+.00	+.10
Acc:	.39	.42	.38	.38	.38	.79	.79	.79	.82	.79


Top 10% BW, Top 20% WW, Top 10% YW, Top 15% MR, Top 15% IMF, Top 25% REA




35

1990s

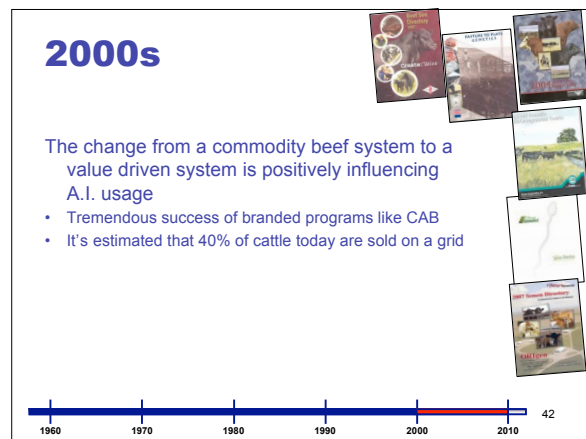
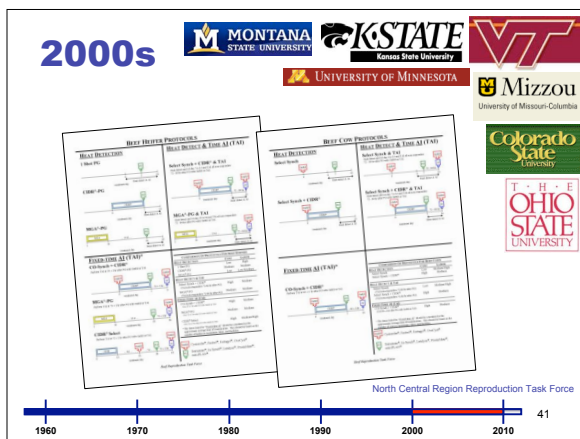
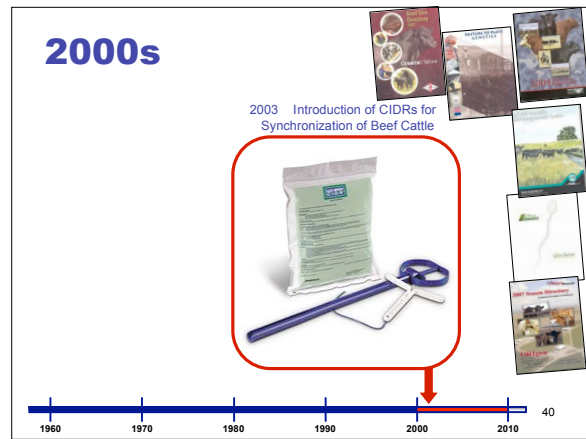
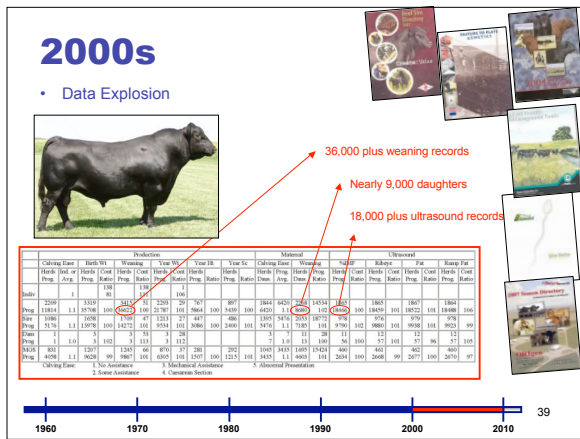
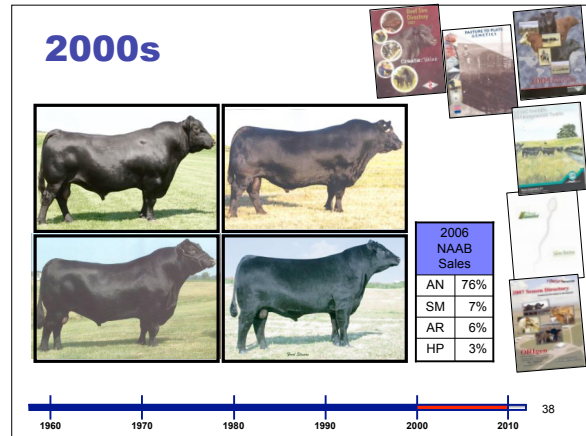
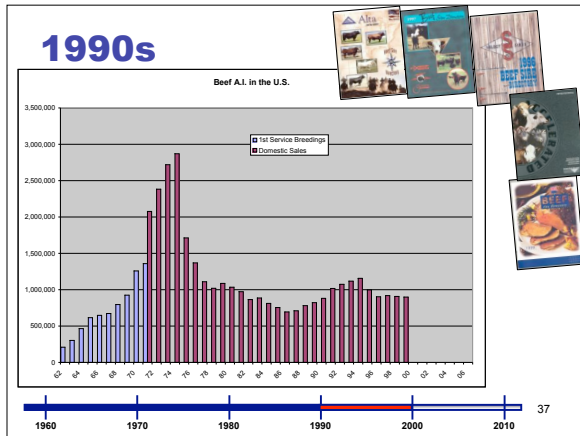
1999 1st Beef Industry Selection Indexes



+ \$36.15 Profitability Value



36

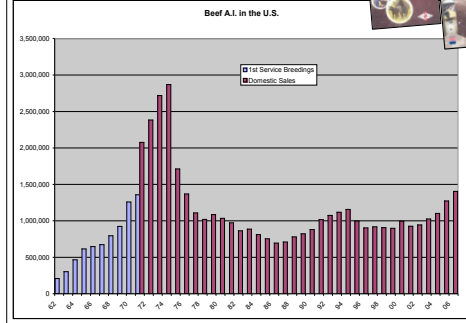


2000s Today

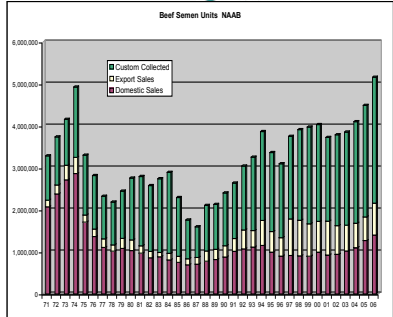
- Highly Proven Sires for 20 plus traits
- Effective timed synchronization systems for heifers & cows
- Overnight shipping
- Sexed semen



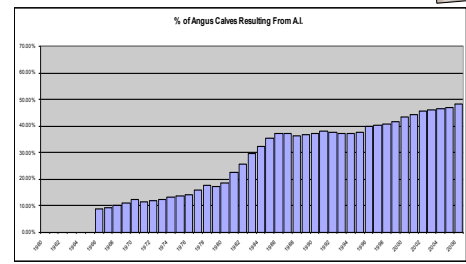
2000s



2000s



2000s



2000s

