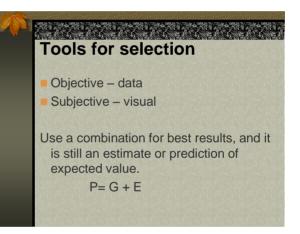
Herd Bull Selection

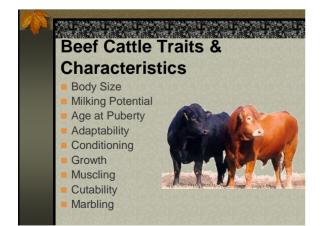
Dr. Larry L. Boleman Associate Vice Chancellor Texas A&M AgriLife Texas A&M University System

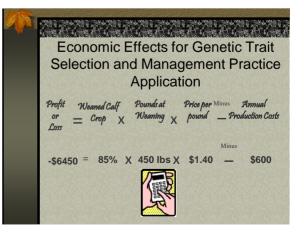
The Bull is More than 50% of the Herd.

- Settle the female
- Improve herd genetics
- If replacements are placed in the herd, the bull may be **87**% of the herd.
- In the Tale of Two Bulls study conducted by TAMU Extension in 1978, one bull netted over \$12,000 in a 40 head cow herd over 4 years over the lesser performance bull.







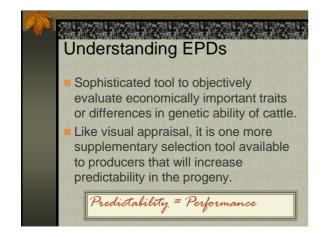


Economic Effects for Genetic Trait Selection and Management Practice Application
Profit Weaned Calf Pounds at Price per ^{Minus} Annual or = Crop × ^{Weaning} × pound — Production Costs Loss
Minus \$17500 = 90% X 500 lbs X \$1.50 — \$500



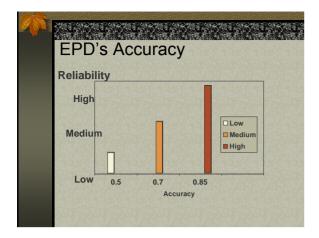
Traits	Optimum	Target
Reproduction		
Age at Puberty (mos)	12-16	14
Scrotal Circumference (cm)	30-40	35
Body Condition Score (BCS)		
Growth		
Birth Weight (lbs) - Cows	60-90	85
Birth weight (lbs) - Heifers	60-90	70-75
Weaning weight (lbs)	425-600	560
Feedlot gain (lbs/day)	2.5-4.0	3.5
Yearling weight (lbs)	900-1200	1120
Frame Score	5-8	
Carcass		
Carcass weight (lbs)	600-800	700
Carcass Quality Grade	Select-Choice	Choice
Intramuscular Fat (IMF) %		4.0
Carcass Yield Grade	1.5-3.5	2.5
Ribeye Area (in2/cwt live wt)1.0-1.4	1.2	
	.0203	.025
Dressing Percent	60 or higher	63





من المراجع الم المراجع المراجع

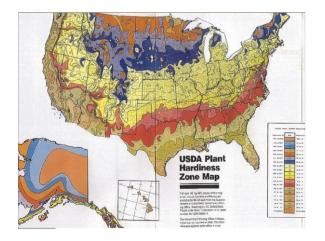
- One should know the breed average to determine if the animal being evaluated is above or below the breed averages for the trait being evaluated.
- Accuracy Values for each trait are important and express the estimated accuracy of repeatability for the trait.







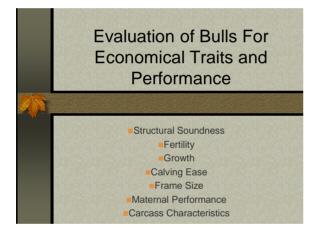


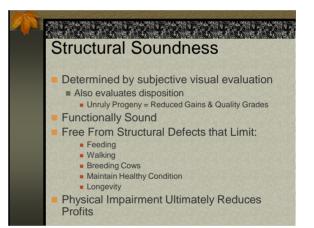


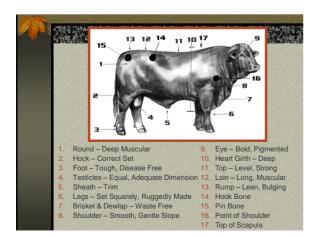


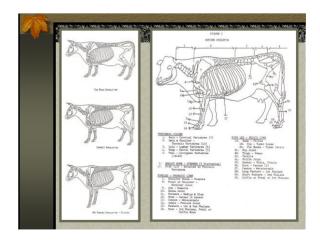


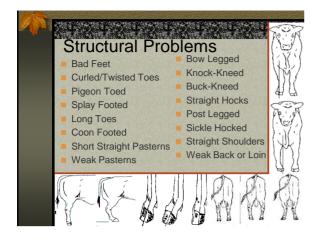




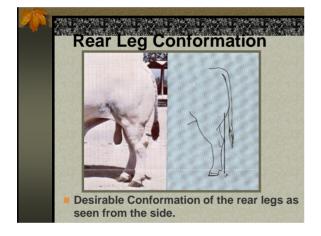


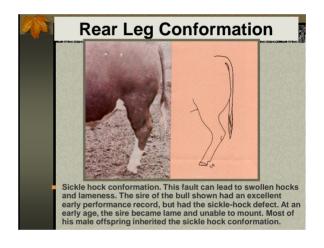




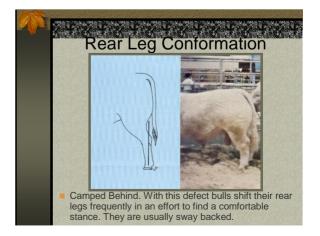




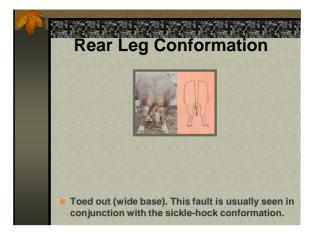




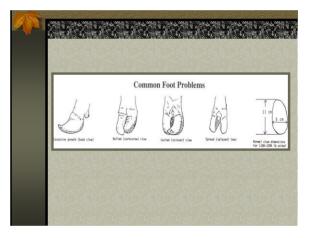


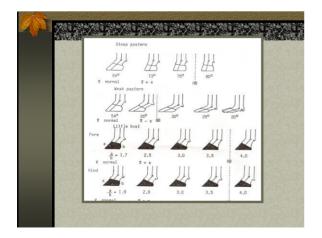


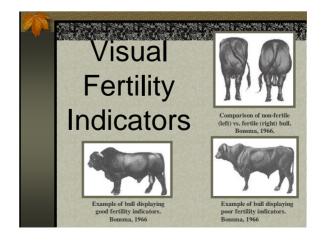






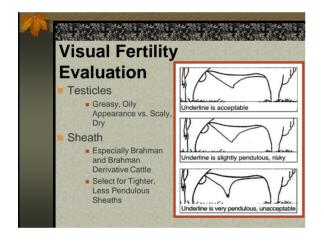
















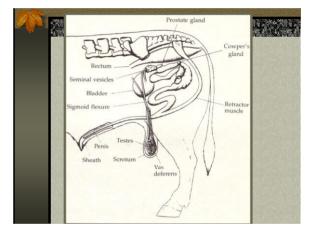


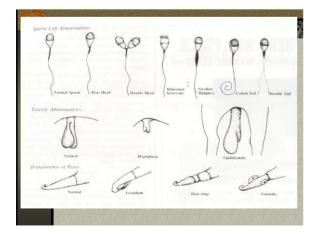




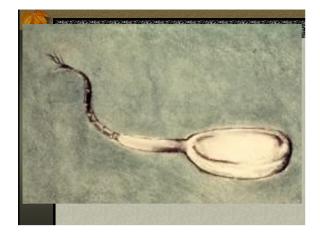
Breeding Soundness Evaluation (BSE) More Objective and Accurate Approach

- Taken the Guesswork out of a Bull's Fertility Status
- Includes:
 - Semen Evaluation for Motility and Morphology
 - Scrotal Circumference Measurement
 Physical Examination of Reproductive Tract
- Scrotal Circumference
 - Minimum of 30 centimeters in 1 year old bulls
 - Minimum of 34 centimeters in 2 year old bulls

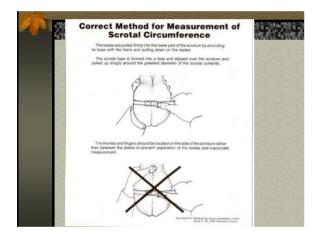




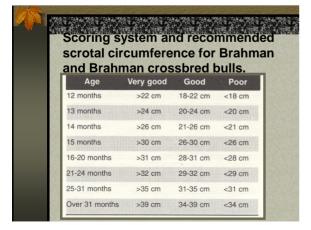




Bul				g Sour	naness
	<u>Motility</u>		I	<u>Scrotal (</u>	<u>Circumference</u>
Gross Activity	Individual Activity	Rating		Bull's Age	
Rapid	Above 70%	Very Good		(Month)	Circumference
Swirling Slower				Under 15	30 cm
Swirling		Good		15 – 18	31 cm
Generalized	30-49%	Fair		18 – 21	32 cm
Oscillation				21 – 24	33 cm
Sporadic Oscillation	30%	Poor		Over 24	34 cm
(35.5).4(3)				1 * 1 (1) 5 (1) * 1 (1)	
	Minimum i			hology nt normal speri	matozoa
		191. H (2)		Source:	Society of Theriogenolog



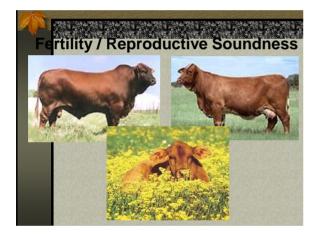
scro	tal circumfe	and recom		
vari	ous ages (except Brahma			
Age	Very good	Good	Poor	
12-14 months	>34 cm	30-34 cm	<30 cm	
15-20 months	>36 cm	31-36 cm	<31 cm	
21-30 months	>38 cm	32-38 cm	<32 cm	
over 30 months	>39 cm	34-39 cm	<34 cm	



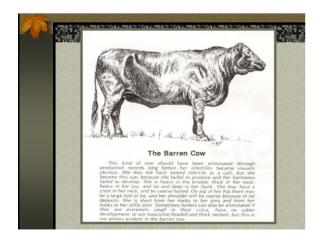














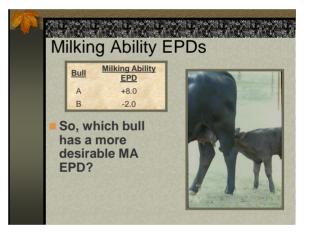


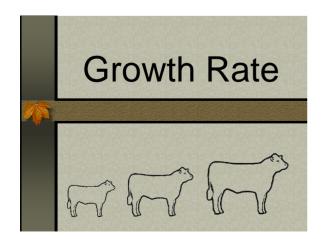




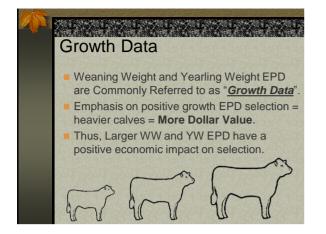
to inherited genes for milk.

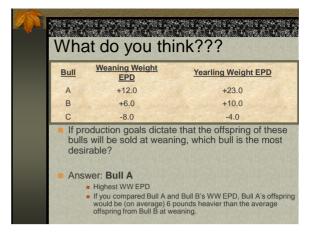
progeny of dam), from their daughters, due



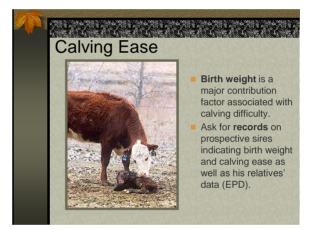




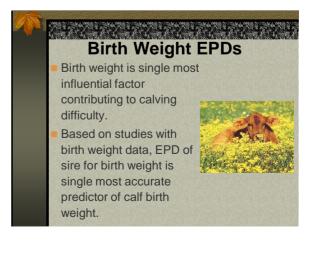


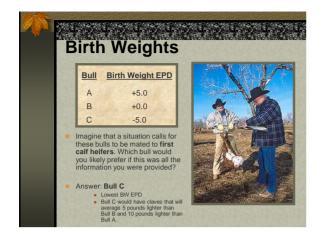


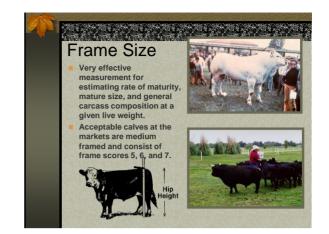
А	+12.0	+23.0
В	+6.0	+10.0
С	-8.0	-4.0

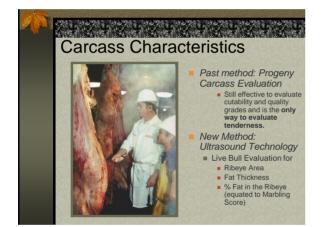


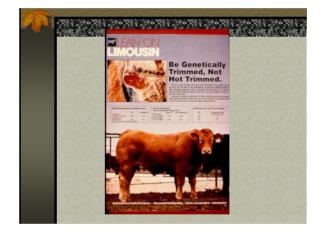


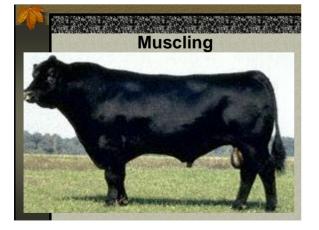








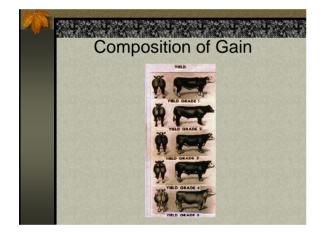


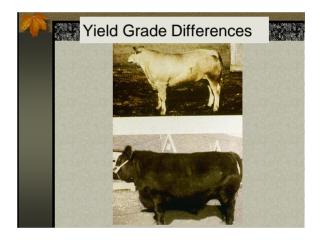


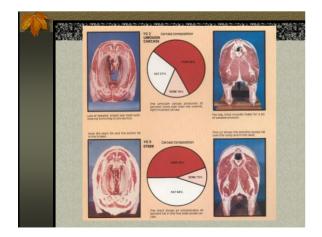
Feeder Steers (Medium and Large Frame: 500-550#)			
Muscle Score	Avg. Price		
1	\$85.71		
2	\$77.66		
3	\$72.41		

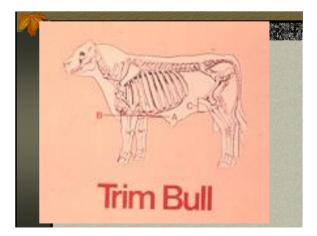


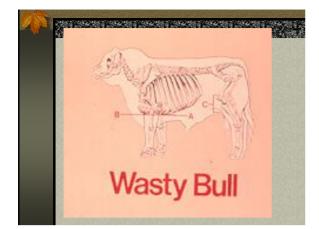


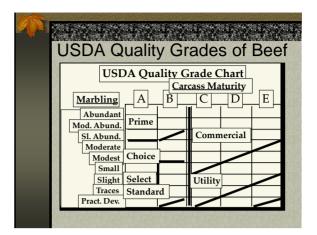


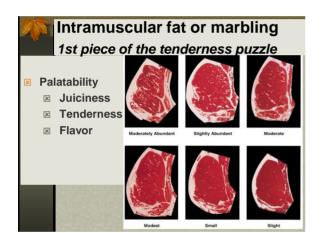


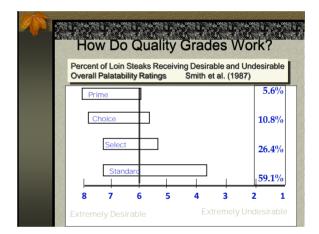


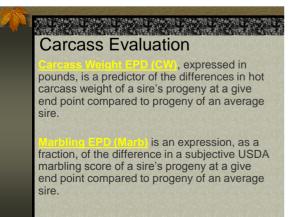








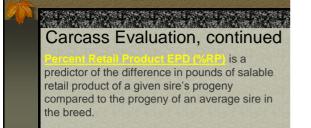




Carcass Evaluation, continued

inches, is a predictor of the difference in ribeye area of a sire's progeny at a given end point.

has the base of the real, expressed in inches, is a predictor of the difference in external fat thickness at the 12th - 13th ribs of a sire's progeny at a given end point compared to progeny of an average sire.





Ultrasound Body Composition EPD

difference in a sire's progeny for percent intramuscular fat in the ribeye muscle compared to an average sire.

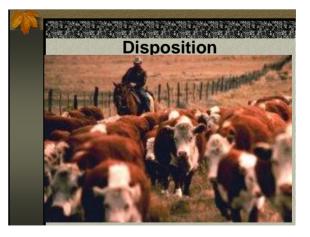
difference in square inches of ribeye area of a sire's progeny compared to the progeny of an average sire.

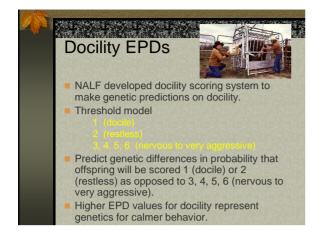
Ultrasound Body Composition EPD

redictor of the difference in a external fat thickness at the 12th - 13th ribs of a sire's progeny compared to the progeny of an average sire.

of the difference in pounds of salable retail product of a sire's progeny compared to the progeny of an average sire.







		Docility EPD
	Sire A +	20%
	Sire B	+ 5%
	Difference	15%
offspring (restless Sire B's EPDs ca	s) as compared	either 1 (docile) or to the percent of ed 1 or 2. Docility ninimize the

perhaps culled due to unacceptable

behavior.

