

Reproductive Technologies That Have Changed the Ranch

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Dalebanks Angus Ranch
Eureka, KS

Credentials?



Demographics of Dalebanks

- Southern Flint Hills-KS
- 450 registered Angus females – fall and spring
- Market 200 bulls
- Cows graze pasture year-round
- Native warm season grass, fescue, annuals
- Small farming operation



History of Dalebanks





...Changed the Ranch?

- Phenotypic measurements
- Reliable genetic selection tools
- Artificial Insemination



Genetic Selection

- Sires – AI and Natural
- Replacement Heifers
- ET Donors
- Know where you are, where you're going, THEN use the tools that can get you there.

ANGUS

SIRE SUMMARY SEARCH CRITERIA

Fall 2020

You may not without the prior written permission of the American Angus Association use any computer code, data-mining software, "robot," "bot," "spider," "scraper" or other automatic device, program, algorithm or methodology having similar processes or functionality, or any manual process, to monitor or copy in bulk the data or content found on this site or accessed through this site.

Disclaimer - Please read before continuing.

Sire Evaluation Report - Complete documentation, tables and charts from the latest Sire Evaluation. Select the radio button next to desired epd trait to sort by that trait.

Click here for [instructions](#).

List to Search	Who qualifies?			
<input checked="" type="radio"/> Main <input type="radio"/> Supp				
<input checked="" type="checkbox"/> Display First 100 Only	<input type="checkbox"/> Login for Excel option	<input type="checkbox"/> Exclude Tested Carriers	<input type="checkbox"/> Must have Genomics	
Selection Trait	Valid Range	Minimum	Maximum	Minimum Accuracy .00 to .99
Production				
<input type="radio"/> Calving Ease Direct	-18 to 24	<input type="text"/> Min CED	<input type="text"/> Max CED	<input type="text"/> Min Acc CED
<input type="radio"/> Birth Weight	-9.3 to 8.1	<input type="text"/> Min BW	<input type="text"/> Max BW	<input type="text"/> Min Acc BW
<input type="radio"/> Weaning Weight	-12 to 114	<input type="text"/> Min WW	<input type="text"/> Max WW	<input type="text"/> Min Acc WW
<input type="radio"/> Yearling Weight	-17 to 194	<input type="text"/> Min YW	<input type="text"/> Max YW	<input type="text"/> Min Acc YW
<input type="radio"/> Residual Average Daily Gain	0.00 to 0.42	<input type="text"/> Min RADG	<input type="text"/> Max RADG	<input type="text"/> Min Acc RAD
<input type="radio"/> Dry Matter Intake	-2.05 to 2.75	<input type="text"/> Min DMI	<input type="text"/> Max DMI	<input type="text"/> Min Acc DMI
<input type="radio"/> Yearling Height	-1.4 to 2.1	<input type="text"/> Min YH	<input type="text"/> Max YH	<input type="text"/> Min Acc YH
<input type="radio"/> Scrotal Circum.	-1.24 to 3.13	<input type="text"/> Min SC	<input type="text"/> Max SC	<input type="text"/> Min Acc SC
<input type="radio"/> Docility	-24 to 41	<input type="text"/> Min Doc	<input type="text"/> Max Doc	<input type="text"/> Min Acc Doc
<input type="radio"/> Foot Claw Set	0.19 to 0.97	<input type="text"/> Min Claw Set	<input type="text"/> Max Claw Set	<input type="text"/> Min Acc Claw

Breeding Program-Heifers

- Heifers developed on grass to 12 months of age
- Selected by EPDs, visual appraisal and performance
- Enter lot, fed roughage ration
- Synchronized with MGA (14 days) + Prostaglandin (19 days later)
- Heat detected ~76 hrs, then GnRH + TAI
- Heat detection for 2nd AI
- Bulls turned out for 25 days after 2nd AI
- Keep those bred in first cycle+, sell breds; opens fed or culled



Breeding Program- Cows

- Calve on native grass
- Vac'ed (MLV) 40 days pre-breeding
- Moved to cool season traps near pens
- 7-Day CO-Synch + CIDR[®]
- Heat Detection ~76 hrs, TAI + GnRH
- Heat detection for 2nd AI
- Bulls turned out 45 days post AI
- Keep those bred first 30 days, sell bull-breds, cull opens



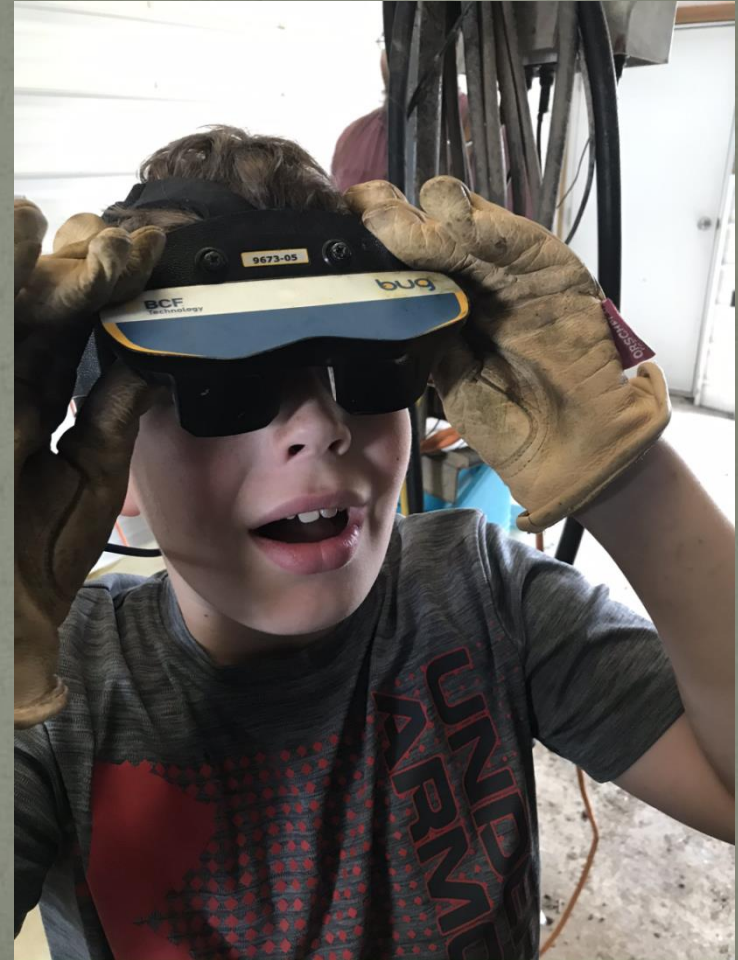
Embryo Transfer

- Limited use – flush 1-5 cows/year
- Embryos put in our own registered recipients
- All conventional flushing thus far



Pregnancy Detection

- Past – Rectal palpation
- BioPRYN
- Current –
Ultrasonography 30-90
days gestation

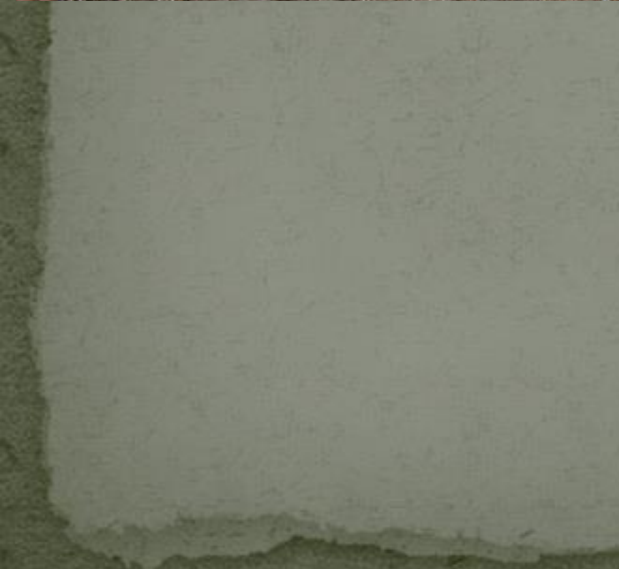


Where We've Been?

- Glass ampoules
- No synchronization
- Ear implants for synch
- Variable disposition and handling
- Facilities??







Where We're Going?

- 7N7 synch
 - Day 0 CIDR[®] + PG
 - Day 7 GnRH
 - Day 14 CIDR[®] out + PG
- Gender-sorted semen?
- In Vitro Fertilization?
- Tracking systems for heat detection?



What's Still Needed?

- Updated research on nutritional requirements of today's cowherd.
- More robust EPDs for Repro Eff.
- Increased understanding of today's co-product feeds and planted forages.
 - Mineral tie-ups, relationships?
 - Applied fertilizer, herbicides?
- Better understanding of TRUE (not simply perceived) trait correlations / relationships
- G X E Interactions
- Mid- and Late-term Preg Loss?
- Haplotypes??



Balance and Prioritization

Feed Intake

Milk

Pigmentation

Fat Thickness

MARBLING

Muscle

Coat Color

GROWTH

Mature Size

Feet/Leg Soundness

Docility

CALVING EASE

Technologies that have changed the ranch?

- For better or worse?
- IT'S UP TO US!

physically active man.

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DALEBANKS PROMPTITUDE 216 — First prize late Senior Heifer Calf and Reserve Heifer Calf Champion at the 1965 Kansas Angus Futurity.

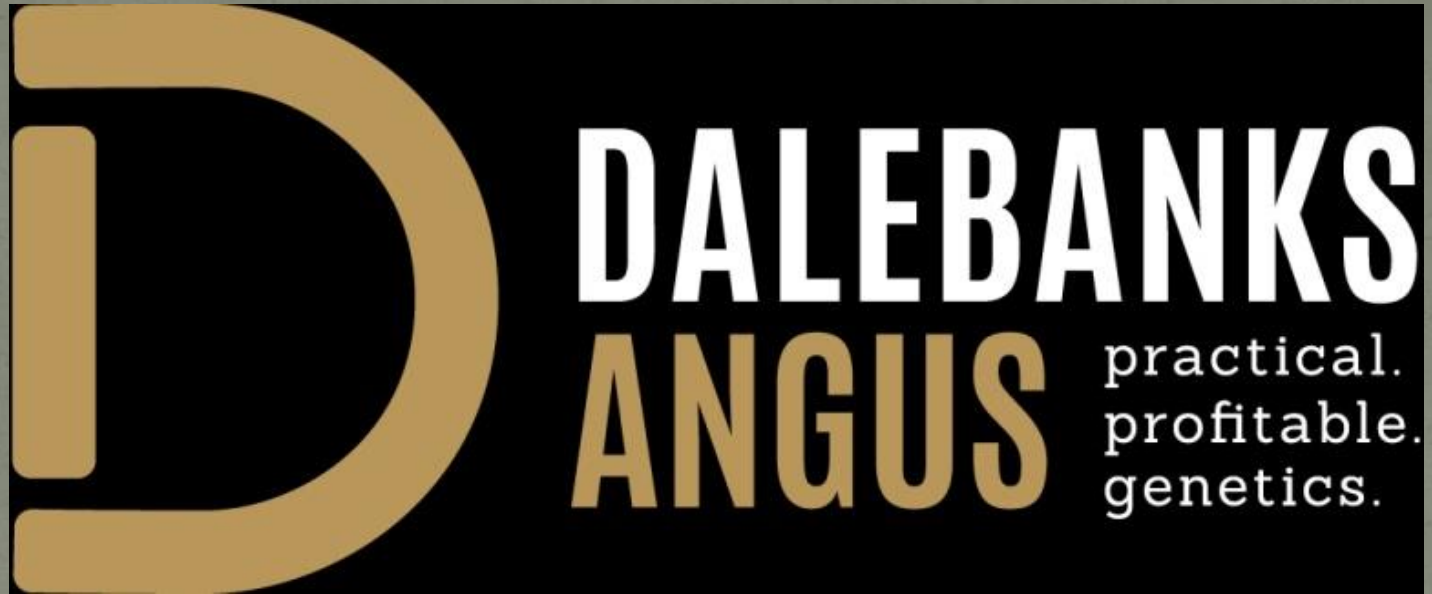
FOR GOOD CATTLE . . .

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Thank you!

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