

Overview

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- Typical commercial cow/calf herds are comprised of Brahman x British crossbreds.
- Significant percentage of herd sires are purchased outside Florida.
- Black Angus genetics are often imported from temperate regions.



Overview

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- There is considerable discussion among producers relative to the merits of bull acclimation.
 - Select from tropical/subtropical herds?
 - Yearlings imported and reared 1 year before first used as a 2-year-old.
 - Is it even a significant consideration in a winter breeding season?

Initial Research

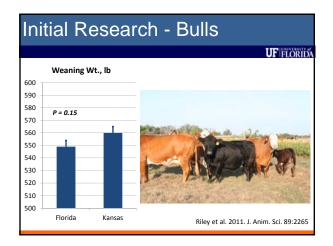
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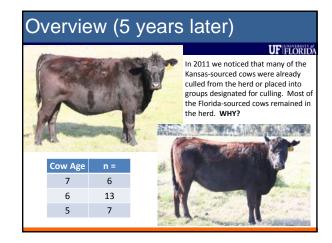
- 125 embryos were derived from local (adapted) or outside (non-adapted) sources (n = 250 total).
- Embryos were transferred into Brahman x British crossbred cows over three consecutive years.
- From these transfers, a total of 81 live calves were weaned.
- Heifers and bulls evaluated through sexual maturity.
- Bulls evaluated as sires on Braford cowherd.

Riley et al. 2011. J. Anim. Sci. 89:2265

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Item	Local (Florida)	Outside (Kansas)	SEM	P =
Average low, °C	38.55	38.41	0.11	0.36
Average high, °C	40.91	40.90	0.07	0.92
Range, °C	2.38	2.48	0.12	0.52
Hair coat score	2.81	2.44	0.33	0.44
Item	Bulls	Heifers	SEM	P =
Hair coat score	3.17	2.08	0.34	0.02

Initial Research					
				UF FLORIDA	
Item	Local (Florida)	Outside (Kansas)	SEM	P =	
n =	36	45			
Birth weight, lb	61	63	1.7	0.39	
Weaning weight, lb	478	505	11.2	0.09	
205 d adjusted, lb	364	386	7.1	0.03	
Weight/d of age, lb	1.79	1.87	0.02	0.03	
Hip height, cm	105	109	8.0	< 0.01	
Age at conception, d	550	454	17.2	0.02	





Study Design

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- Study was conducted over three consecutive years using cow/calf pairs.
 - Local Source; Florida Adapted Herd
 - Outside Source; Modern Seedstock Herd (Kansas)
- Calves were fall-borne over a 90-d period.
- Evaluations were conducted in March, April, May, and June of each year.

Study Design

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- Dependent variables included;
 - Cow and calf BW
 - Cow BCS
 - Cow hair coat score
 - Cow milk production (WSW; March only)
- Data analyzed using the MIXED procedure of SAS with "source" in the model and animal(source x year) as random variable. Individual animal was the experimental unit.

Study Design

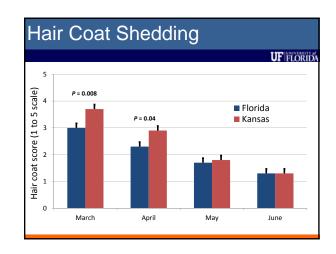
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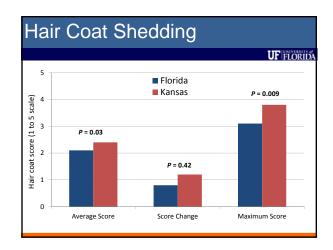
 Cow hair coat score based on scoring criteria established by Dr. Joe Cassady, North Carolina State University, as follows;

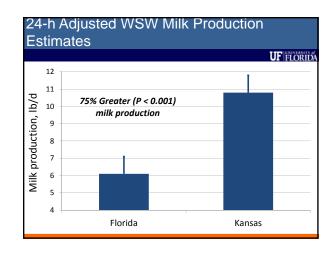
Hair Shedding Score	Definition
5	Full winter coat
4	Coat exhibits initial shedding
3	Coat is halfway shed
2	Coat is mostly shed
1	Slick, short summer coat
	•

			UF FLOR
Florida	Kansas	SEM	<i>P</i> =
16	10		
904	915	16.8	0.64
975	1,003	17.6	0.18
4.3	3.3	0.16	< 0.001
4.9	4.1	0.19	0.001
	16 904 975 4.3	16 10 904 915 975 1,003 4.3 3.3	16 10 904 915 16.8 975 1,003 17.6 4.3 3.3 0.16

Calf BW, I	b			
				UF FLORID
Item	Florida	Kansas	SEM	<i>P</i> =
Calf (March) 1	205	232	7.1	0.002
Calf (June) 1	366	414	5.3	0.001
ADG ¹	1.70	1.90	0.059	0.005
¹ Adjusted for calf sex				







Calves from non-adapted, outside source Angus dams had greater pre-weaning BW gain. Compared to local source, adapted Angus dams, outside source Angus dams; Less BCS Slower spring hair coat shedding Greater milk production



Ona White Angus –Where did they come from?

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- The Ona White Angus is a distinct breed developed at the UF/IFAS Range Cattle Research and Education Center.
- A coloration anomaly that is not fully understood.
- Originally derived from a long-term cattle breeding project lead by Professor F.M. Peacock (Ona) involving the crossbreeding of Brahman, black Angus, and Charolais.



Ona White Angus –Where did they come from?

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- In the early 1990's this cowherd was bred to Simbrah bulls.
- In 1999, we began to breed to black Angus and Brangus.
- In 2002, we began to notice a small number of these cows giving birth to white haired calves with dark skin.
- Since this time, we have focused on increasing the numbers.



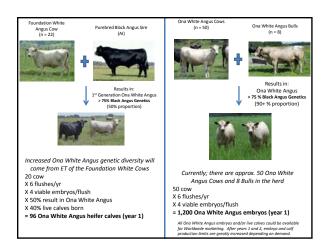
Ona White Angus –Where did they come from?

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- Originally, we focused on producing White Angus calves that were genetically 7/8 black Angus. This has not worked!
- To date, only one cow has produced a 7/8 black Angus calf. She has 3 daughters in the herd
- Today, we are focusing on breeding white cows to white bulls – each are ¾ black Angus.



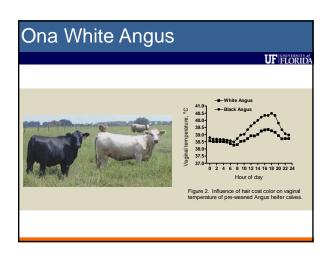
7/8 black Angus ET daughter of the ABS sire Mandate Two full siblings born from the same flushing that were black.

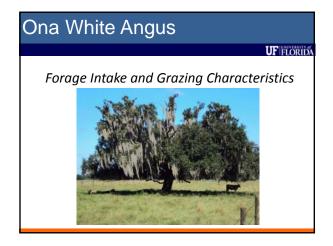


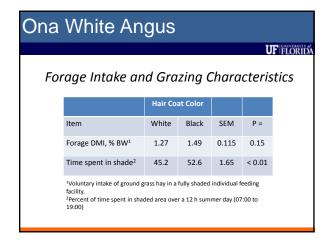
Ona White Angus – What are the advantages?

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- In collaboration with researchers from Cornell University we determined that the Ona White Angus have > 80% sweating rates when compared to black Angus cattle reared in the same environment (ASABE. 2008. 51(6):2167).
- This adaptive response results in cooler body temperatures during periods of high heat load.
- Collectively, the Ona White Angus cattle spend less time seeking shade and more time grazing than black Angus cattle.



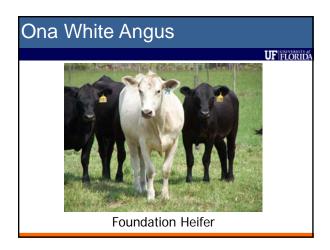




Ona White Angus – Why are we selling the herd?

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- The genetic diversity of the Ona White Angus is limited.
- This can be enhanced/improved by an aggressive embryo transfer program focused at mating our Foundation cows (50% black Angus) with multiple black Angus sires.
- But, this is expensive
- In addition, it is a natural expectation for the University to develop technologies and transfer them to the private sector for commercialization.
- As a breed, the Ona White Angus has the potential to provide significant value to the beef cattle production systems in warm climates.

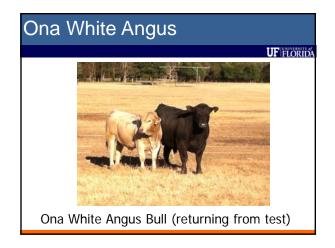


















Ona White Angus

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Ona White Angus Heifer (unweaned; 6 mo)

Ona White Angus Sale

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- Sale Date: January 21, 2016 at 10 AM EST
- Cattle will be sold as a single group. No cattle, embryos or semen will be retained. Minimum reserve; \$700,000.
- Auction will be available on site or via internet. Buyers must be registered with Producers Cattle Auction before the sale:
 - www. Producerscattleauctions.com
 - 251-633-9306
 - Contact: Todd Clemons, Okeechobee Livestock Mkt.

Ona White Angus Sale

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- At buyers discretion, the cattle can remain at the UF/IFAS Range Cattle Research and Education Center through a negotiated management/research contract.
- Prior to the sale, the cattle may be viewed on;
 - October 22
 - November 20
 - December 8
- Information updates are provided as they become available at http://rcrec-ona.ifas.ufl.edu/

Ona White Angus Sale

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Audy Spell

Advanced Reproductive Associates

AND

Todd Clemons

Okeechobee Livestock Mkt.

Thank you for your attention



John Arthington University of Florida / IFAS Range Cattle Research and Education Center, Ona