

Practical Developments for Reproductive Management of Beef Cows

**G. Cliff Lamb, V. R. G. Mercadante, G. H. L. Marquezini,
D. D. Henry, F. M. Ciriaco, N. DiLorenzo**

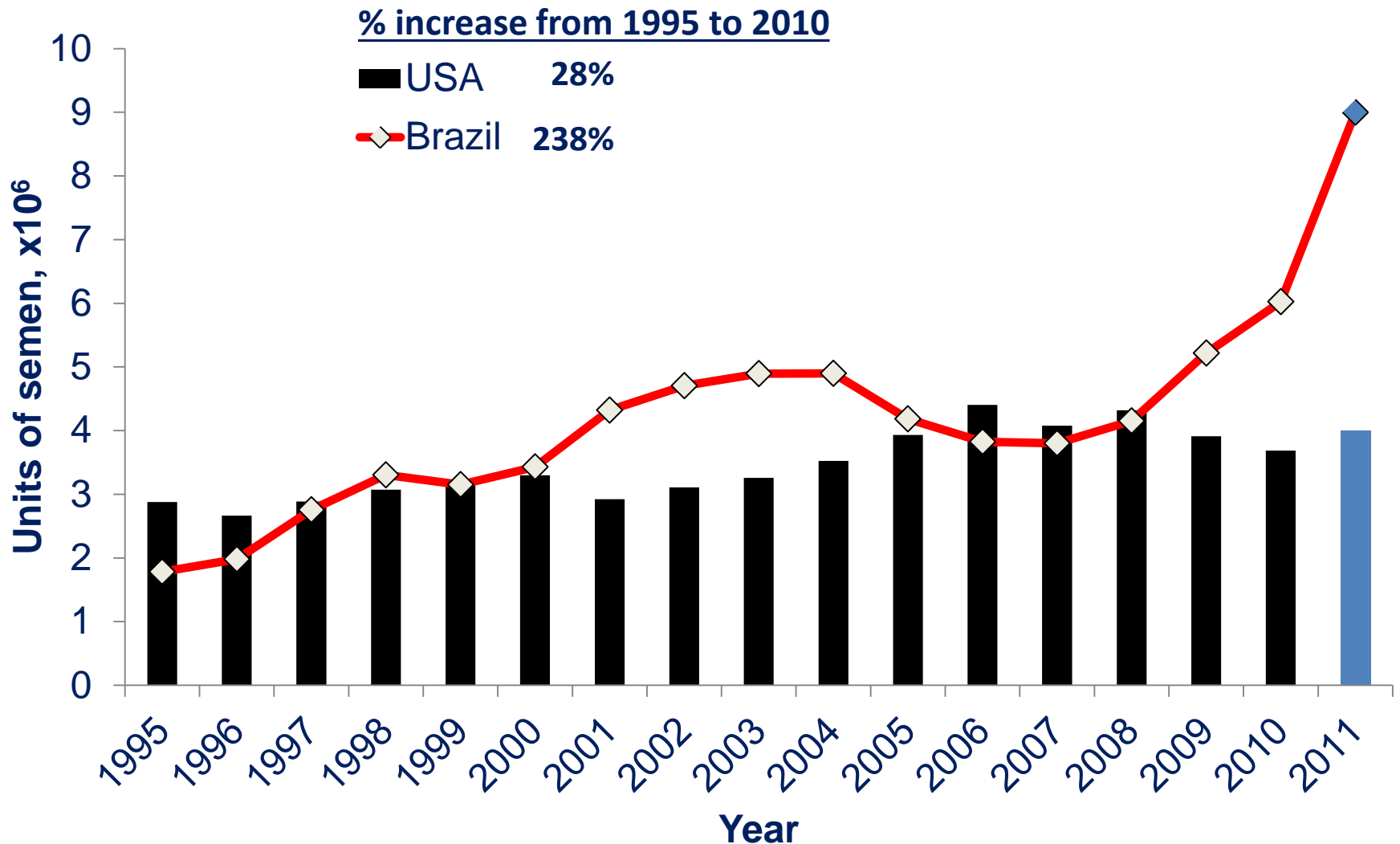
UF UNIVERSITY *of*
FLORIDA

IFAS Research

*North Florida Research and
Education Center*

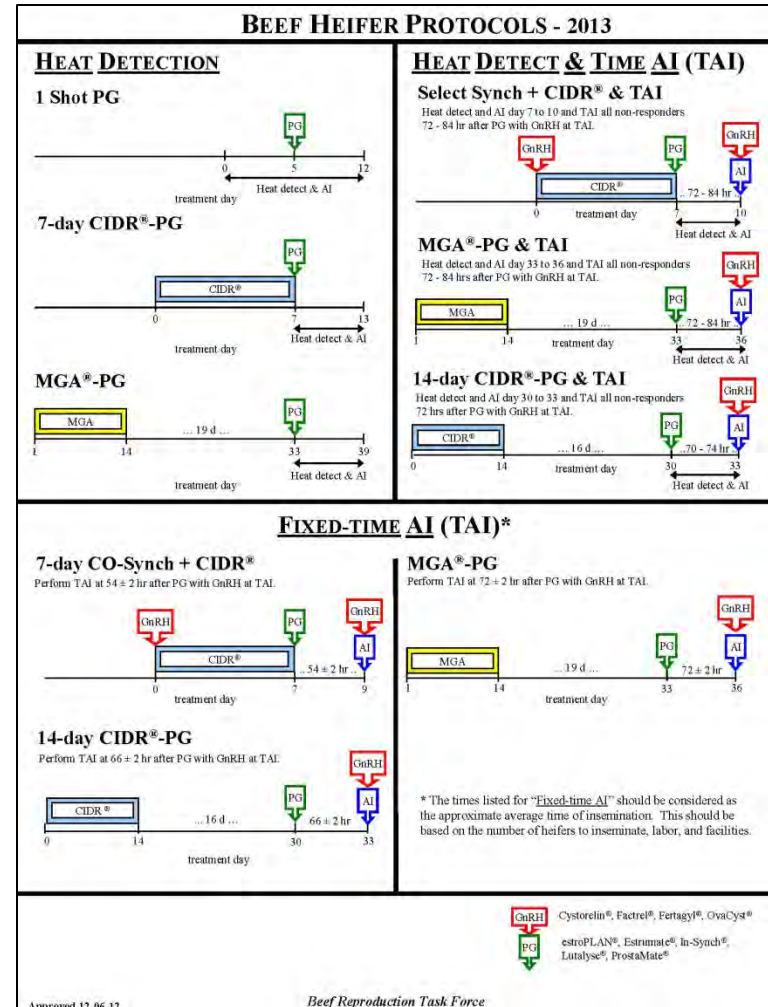
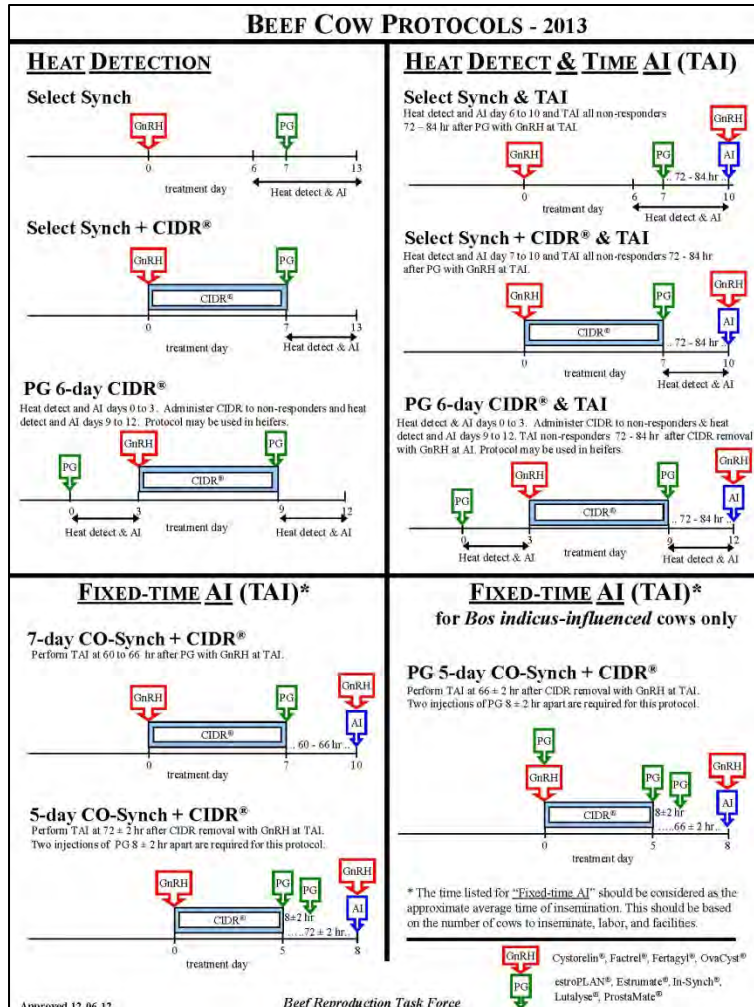


Semen Sales in USA and Brazil from 1995 to 2011



(NAAB and ASBIA, 2011)

Estrous Synchronization and TAI in Beef Cattle



<http://beefrepro.unl.edu/>

Economics of implementing TAI program



Impact of Fixed-Time AI on Calving and Weaning

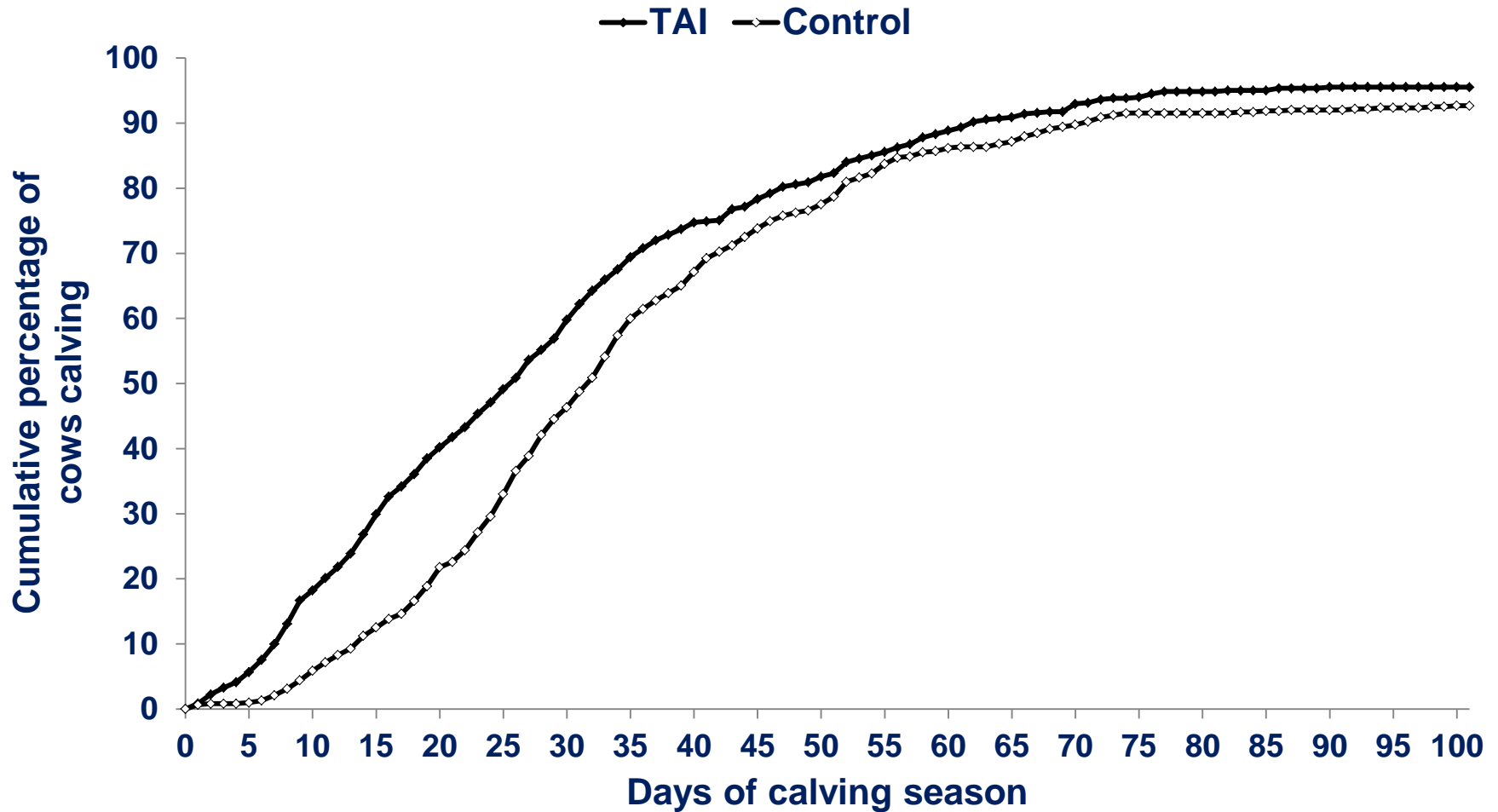
Control



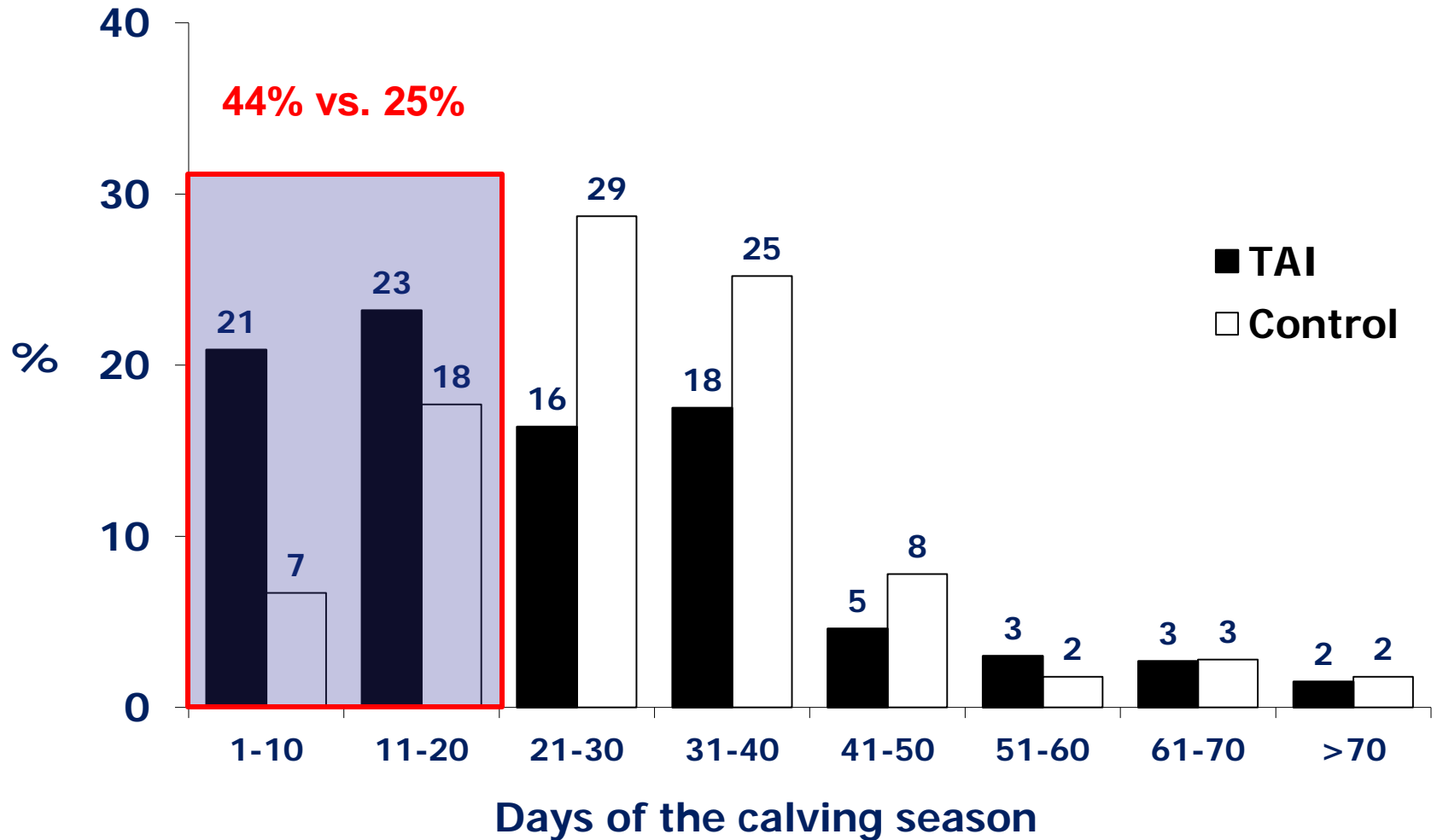
TAI



Impact of Fixed-Time AI on Calving and Weaning



Impact of Fixed-Time AI on Calving Distribution



Impact of Fixed-Time AI on Calving and Weaning

Item	Treatment	
	Control	TAI
No. of cows	615	582
Weaning rate, %	78 ^a	84 ^b
Weaning weight, lb	388 ± 8 ^a	425 ± 8 ^b

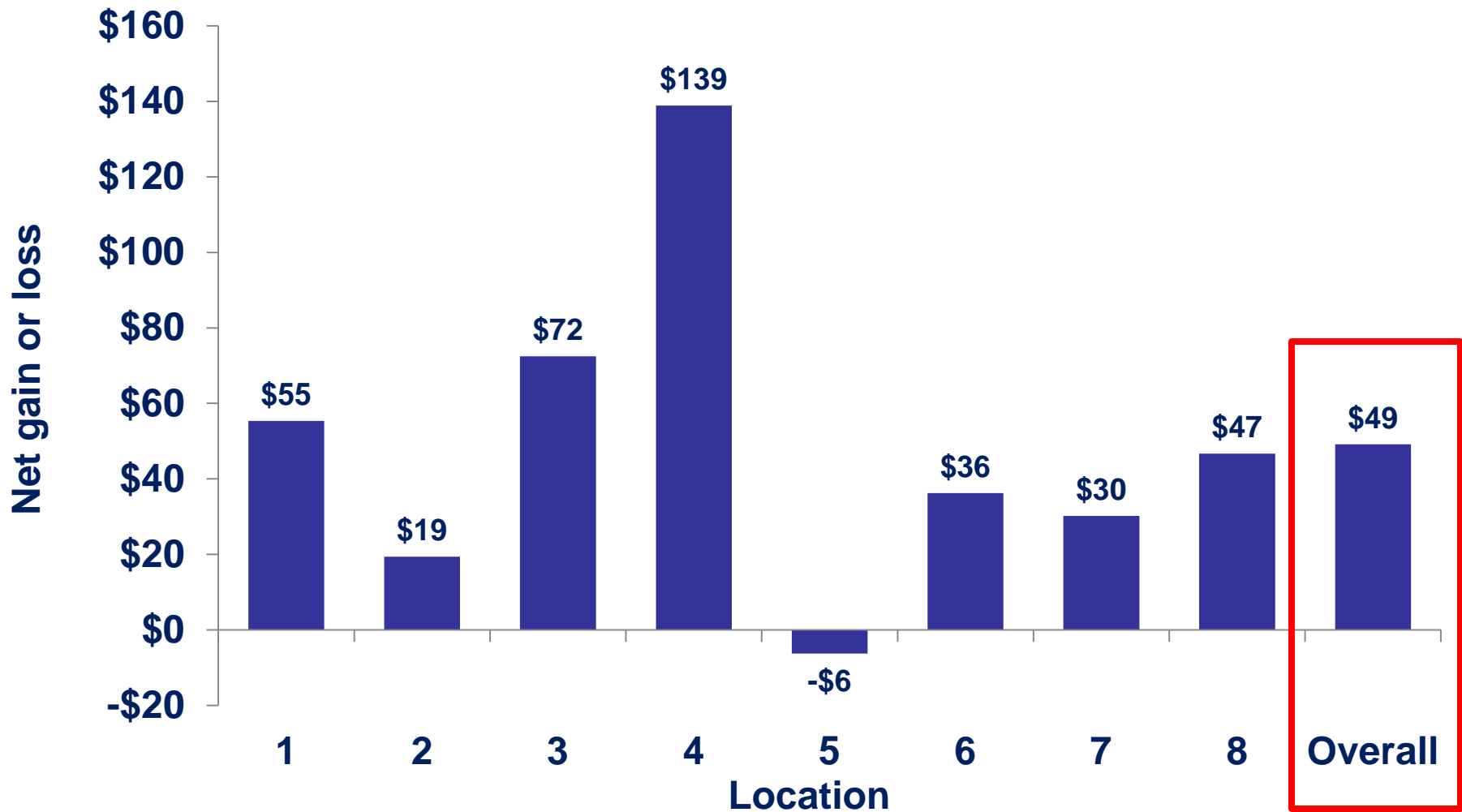
^{ab} Means within row differ (P < 0.01)

37 lb

Model Assumptions (2007)

- **Bull price** **\$3,250**
- **Salvage bull price** **\$3.63/lb**
- **Bull grazing, feed, maintenance** **\$365/year**
- **Interest** **7%**
- **Steer calf selling price (550 lb)** **\$5.85/lb**
- **Semen** **\$13.00**
- **Reduction in bull/cow ratio** **1/17 to 1/34**

Gain or Loss by Location



Summary of Outputs

Increased returns	\$47.09
Decreased Costs	\$35.23
<u>Increased Costs</u>	<u>\$33.18</u>
Gain	\$49.14

Change in value based on herd sire costs

Item	Bull Value		
	\$2,500	\$3,500	\$4,500
Increased returns (increased value of AI calves)	\$58.33	\$58.33	\$58.33
Decreased costs (decreased costs of clean-up bulls)	\$29.55	\$39.29	\$49.04
Decreased returns (Attributed to fewer clean-up bulls included in decreased costs calculation)	\$0.00	\$0.00	\$0.00
Increased costs (additional labor, semen, AI supplies, etc.)	\$46.10	\$46.10	\$46.10
Gain per cow exposed to AI	\$41.78	\$51.52	\$61.27



AI

Cowculator

Carrier 4:04 PM

Cowculator

Natural Service Sire Costs

Bull Maintenance Costs:

\$ per year

Average Purchase Cost of Bull:

\$ per bull

Useful Life:

years

Carrier 4:05 PM

Cowculator

Cowherd Related Costs

Number Of Cows In The Herd:

of cows

Number Of Natural Service Bulls:

of Bulls

Expected Bulls For Clean-Up To AI:

of bulls

Weaned Calf Crop:

Carrier 4:06 PM

Cowculator

Artificial Insemination Related Costs

Additional Labor:

\$ per artificially inseminated cow

Facilities & Equipment:


\$ per artificially inseminated cow

Estrous Synchronization Products:

\$ per artificially inseminated cow

Carrier 4:01 PM

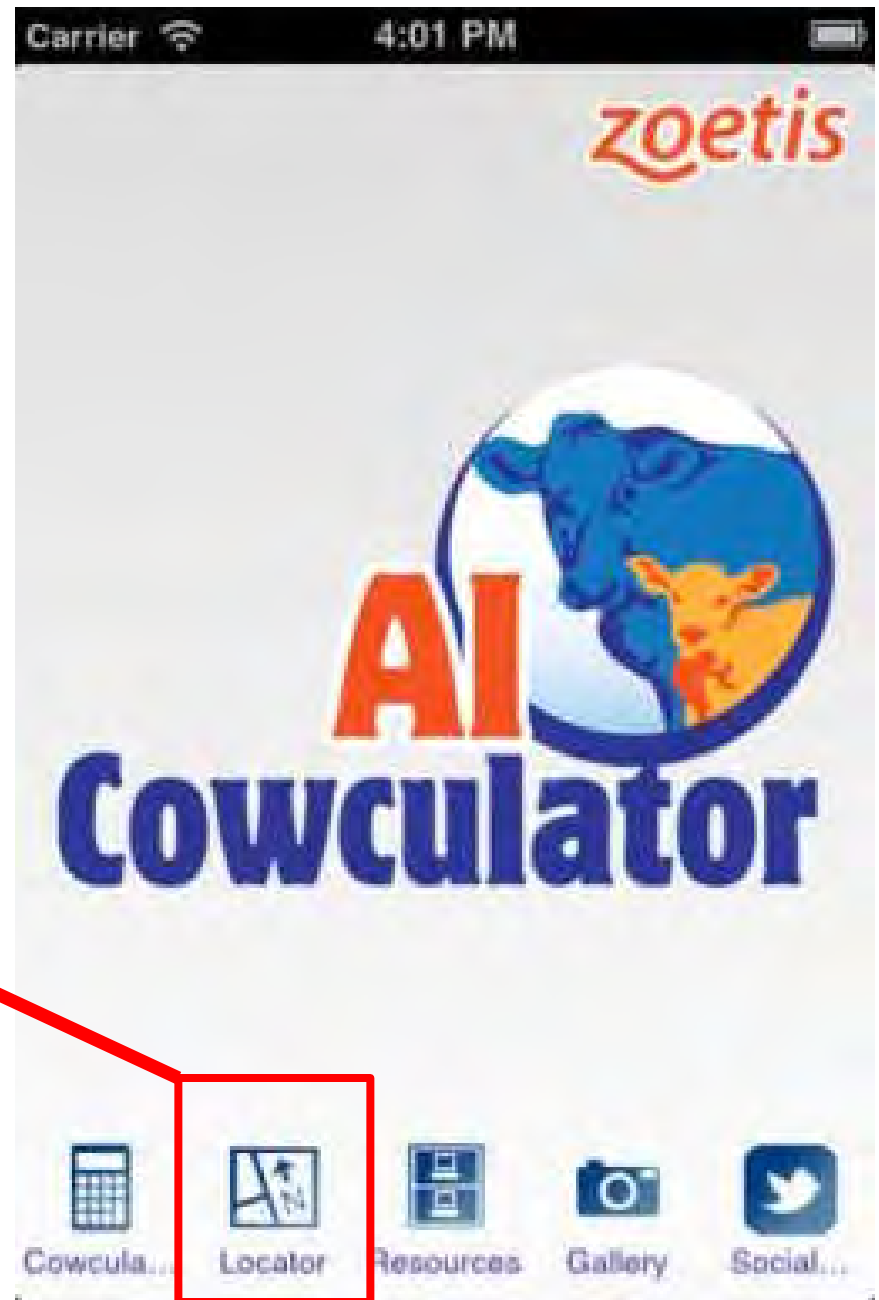
zoetis

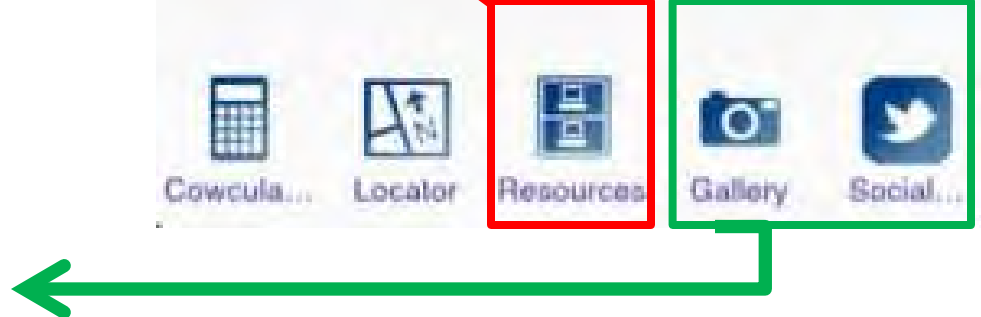
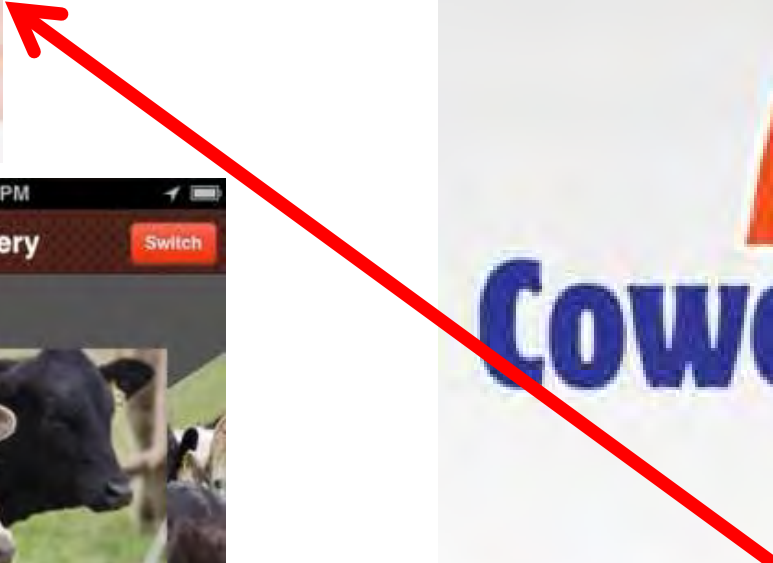
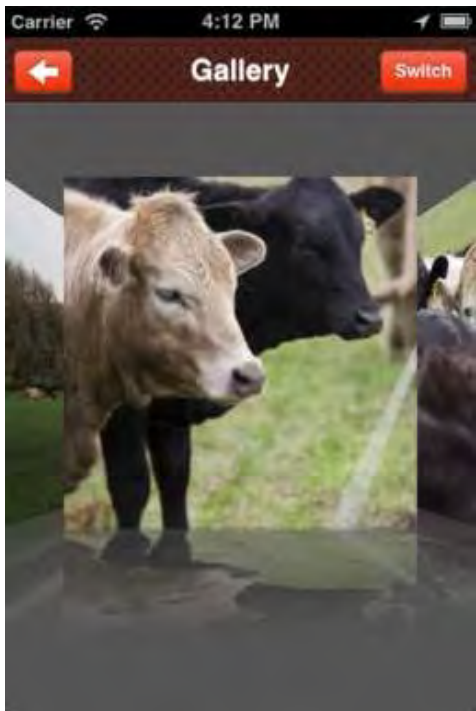


AI Cowculator

Cowcula... **Locator** **Resources** **Gallery** **Social...**







FLORIDA BULL TEST

Nomination deadline
June 15, 2013

Eligible bulls must be born
between Aug. 15 and Dec. 31, 2012
Delivery Date – July 30, 2013
Bull Test Sale – January 18, 2014



Feed Efficiency Bull Test

- Daily individual animal feed intake recorded
- Accurate animal weights used to determine individual animal feed intake and feed efficiency (G:F, F:G, and RFI)
- Use of Growsafe feed intake measuring system at NFREC Feed Efficiency Facility

For more information and nomination forms contact:

North Florida REC by phone: 850-394-9124, by Email: tpgwin@ufl.edu, or access the Florida Bull Test website: http://nfrec.ifas.ufl.edu/fl_bull_test/index.shtml

Acknowledgements

People

Dr. John Arthington
Dr. Reinaldo Cooke
Dr. Carl Dahlen
Dr. Alfredo DiCostanzo
Dr. Nicolas DiLorenzo
Dr. Jamie Larson
Dr. Travis Maddock
Dr. Guilherme Marquezini
Ms. Kalyn Bischoff
Ms. Tera Black
Ms. Francine Ciriaco
Mr. Jim Cassady
Mr. Darren Henry
Mr. Vitor Mercadante
Technical staff
Support staff
Collaborators
Beef cattle producers

Funding and Product Support

ABS Global, Inc.
Blandin Foundation
Intervet Animal Health
IVX/Teva Animal Health
Merial Animal Health
MN-AURI
NAAB
Zoetis
Select Sires, Inc.
Univ. of FL
Univ. of MN
OR State Univ.
USDA-CSREES
USDA-TSTAR

Thank You!



Contact Information

Cliff Lamb
University of Florida
3925 HWY 71
Marianna, FL 32446
850-394-9124
gclamb@ufl.edu

Vitor Mercadante
University of Florida
3925 HWY 71
Marianna, FL 32446
850-394-9124
vitor@ufl.edu

