Faculty

• Dr. Nicolas DiLorenzo - Nutrition
  – 2 Masters and 2 PhD students

• Dr. Jose Dubeux – Forage/grazing
  – 2 Masters and 1 PhD student

• Dr. Cliff Lamb - Reproduction
  – 2 Masters and 1 PhD student

• Dr. Ann Blount – Forage breeder

• Beef and Forages
  – 3 biological scientists and 5 ag research personnel
Improving available forages

• Calcium Oxide
  – Soften the fiber of poor quality forages
  – May have potential benefits for baleage or dry-rolled hay
  – CaO may increase digestibility of low-quality forages by 10 - 15%
Protein sources

• **Brassica Carinata**
  – Biofuel crop with the potential of being used as a protein supplement - 37% CP

• **Nitrate**
  – Non-protein nitrogen source
  – Potential to reduce methane
Protein sources

• Fermenten
  – Supply non-protein N (amino acids and peptides)
  – Slow release of non-protein N (N bound to a complex organic matrix)
  – Expectations
    • ↑Metabolizable protein content of the diet (↑Microbial CP)
Variety trials

Red Clover variety trial

Alfalfa variety trial

White Clover variety trial

2,4 D Red Clover trial
Warm- and cool-season grass-legume mixtures

Legume Variety trials, Marianna, Jan 2014

Annual ryegrass + legumes

Rye/ryegrass + legumes
Integrating perennial peanut into bahiagrass pastures
On-farm trials – Perennial peanut

- Two establishment methods x two PP varieties
- Four locations in Florida
Synchronizaton

• Re-synchronization
  – Synchronization of estrus or ovulation in females that have been previously exposed to natural service or AI
  – To develop a resynchronization strategy that would allow for AI of heifers of unknown pregnancy status, and that would increase the percentage of heifers conceiving to AI
Embryo growth

- bST
  - Effects of bST on follicular dynamic and hormone concentrations
  - Evaluating the effects of bST on beef cattle fertility
2014/15 Florida Bull Test
- 102 Bulls consigned to the Test
- 31 consignors from AL, FL, GA, and MS
- Number of bulls offered for sale 56
- Mean sale price per bull = $4,338

2015/16 Florida Bull Test
- 136 Bulls consigned to the Test
- 41 consignors from AL, FL, GA, and MS
- Number of bulls offered for sale was 86
- Mean sale price per bull = $4,079

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<tr>
<th>Year</th>
<th>No. of consignors</th>
<th>No. of bulls</th>
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Since inception of the Florida Bull Test, 955 bulls have been purchased in the Florida Bull Test with an overall $3.75 million increase in value to the cattle industry!
2016 NFREC Beef/Forage Day

Friday, April 15, 2016

UF/IFAS NFREC Beef Research Unit
(One mile west of Greenwood, FL on Hwy 162)

Schedule of events:
8:30 AM    Registration
9:00 AM    Start morning program
12:30 PM   Lunch
1:30 PM    Start afternoon program
2:30 PM   Adjourn
Thank you