


**UF IFAS**  
UNIVERSITY of FLORIDA

Range Cattle  
Research & Education Center



**Warm-Season Forage Mixtures for  
Pasture Establishment**

2019 UF/IFAS Range Cattle REC Webinar

Joao Vendramini

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**Introduction**

- Pasture renovation is one of the most costly management practices in beef cattle production



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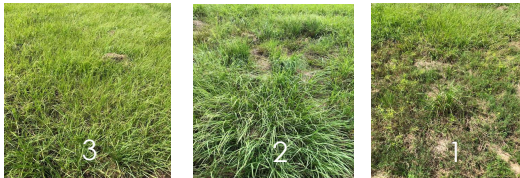
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**Introduction**

- “Pasture condition score” was a procedure created to allow producers to make more objective decisions regarding pasture renovation



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## Introduction



- The objective of mixing warm-season annual forages with warm-season perennial forages at planting is to have greater forage production in the year of establishment.




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## Experiment 1



- Treatments:
  - Bahiagrass
  - Bahiagrass+ pearl millet (Half seeding rate)
  - Bahiagrass + pearl millet (Full seeding rate)
- Seeding rate:
  - Bahiagrass – 25 lb/acre
  - Pearl millet – 25 lb/acre
- Seeded in June and harvested every 6 weeks

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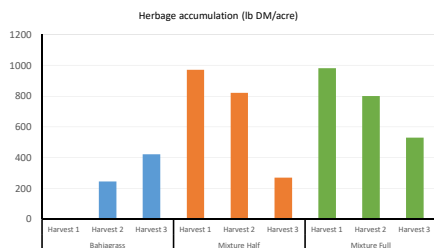
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## Experiment 1




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# Experiment 1



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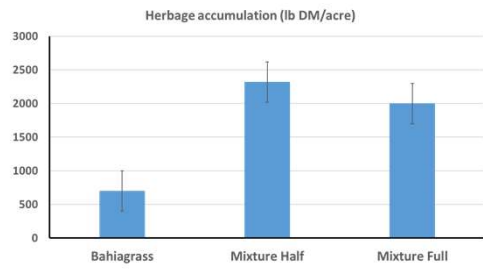
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# Experiment 1



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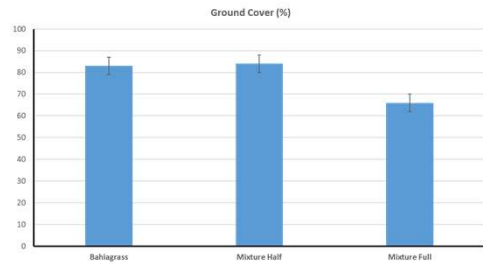
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# Experiment 1



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## Experiment 2



- Treatments:
  - Cayman brachiariagrass
  - Cayman + sunn hemp + sorghum (Half seeding rate)
  - Cayman + sunn hemp + sorghum (Full seeding rate)
- Seeding rate:
  - Cayman – 10 lb/acre
  - Sunn hemp – 25 lb/acre
  - Sorghum – 25 lb/acre
- Seeded on April and harvested every 6 weeks

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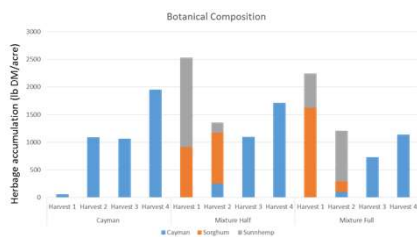
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## Experiment 2




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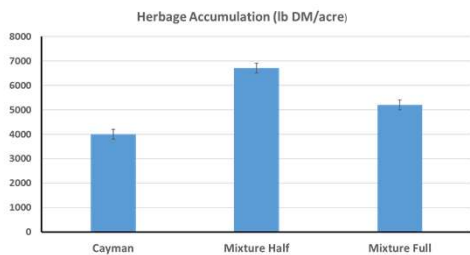
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## Experiment 2




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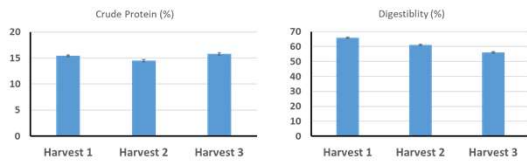
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## Experiment 2

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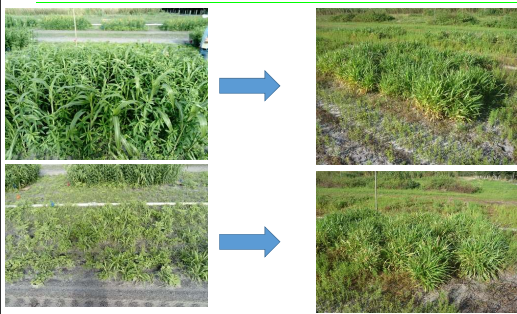
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## Experiment 2

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## Experiment 3

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- Treatments:
  - Tifton 85
  - Tifton 85 + sunn hemp + pearl millet (Half seeding rate)
  - Tifton 85 + sunn hemp + pearl millet (Full seeding rate)
- Seeding rate:
  - Sunn hemp – 25 lb/acre
  - Pearl millet – 25 lb/acre
- Seeded in July and harvested every 6 weeks

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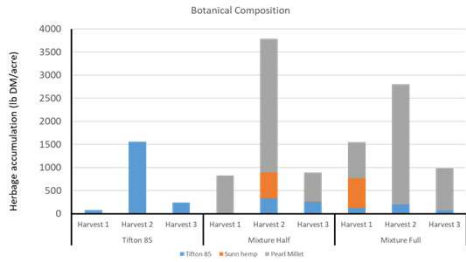
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### Experiment 3

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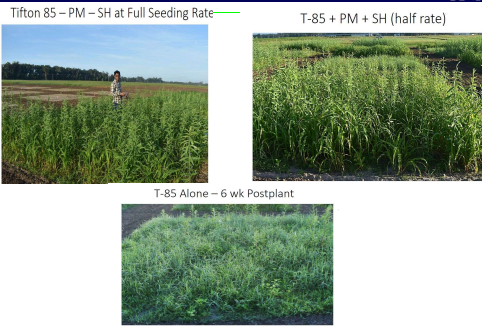
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### Experiment 3

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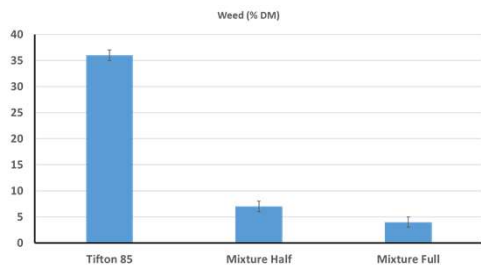
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### Experiment 3

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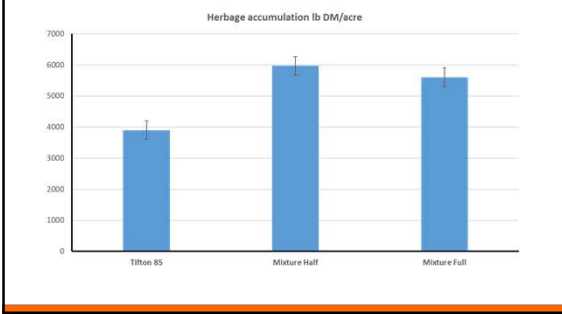
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### Experiment 3



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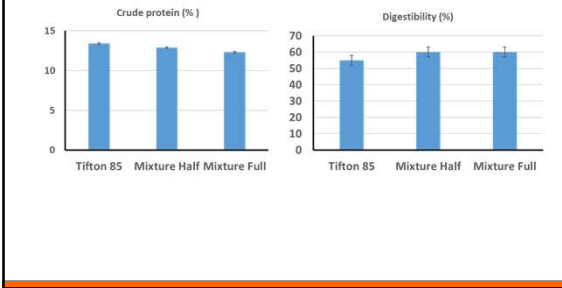
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### Experiment 3



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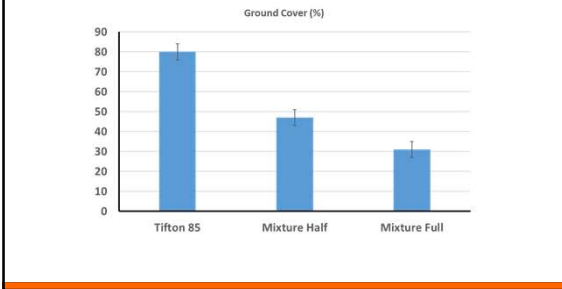
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### Experiment 3



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## Conclusions



- Mixing warm-season perennial grass and warm-season annual forages consistently increased forage production during the year of establishment
- In general, the warm-season annual forages will have similar or greater nutritive value than warm-season perennial grasses
- The effect of warm-season annual forages on subsequent warm-season perennial grass establishment seems to be variable

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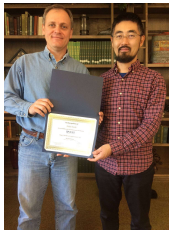
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## Thank you



Milk Check – Off Research and Education Committee  
NARO - Japan



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## Joe What? Podcast



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