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Applying Hexazinone with Fertilizer for Smutgrass Control

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Smutgrass

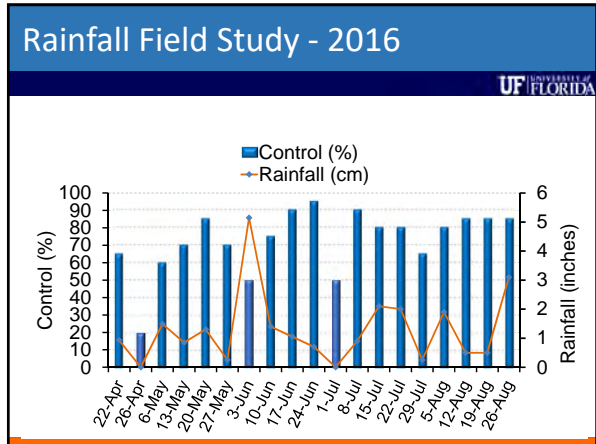


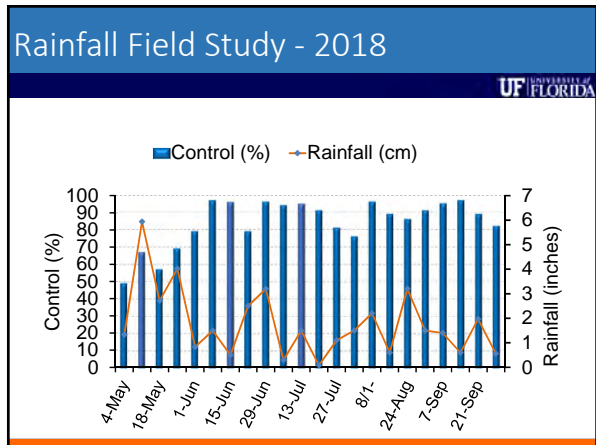
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Chemical Control - hexazinone

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- Hexazinone 1.5 qt/A, minimum (2 qt/A)
 - Velpar, Tide Hexazinone, Velossa™
 - 1 qt/A is inconsistent
 - Apply in summer during rainy season
- Control shortcomings
 - Large open spots (trade one weed problem for another)
 - Cost: \$35-45/A
 - Extremely inconsistent

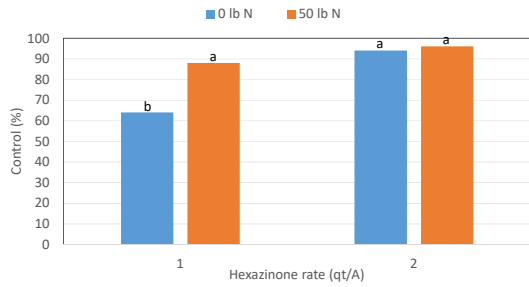




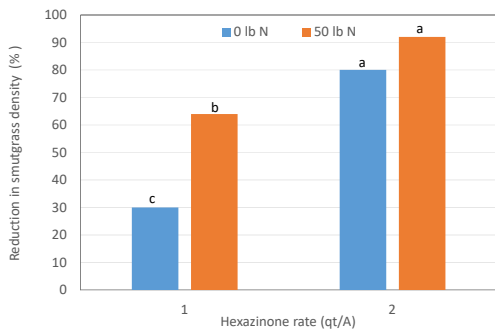
Methods

- 2 Locations near Ona, FL in 2019
- Factorial treatments, 4 replications
 - Hexazinone at 1 and 2 qt/A
 - 32% UAN at 0 and 50 lb/A
- Tractor sprayer at 20 GPA
- Control
 - Visual estimates of control
 - 0 and 60 DAT plant counts

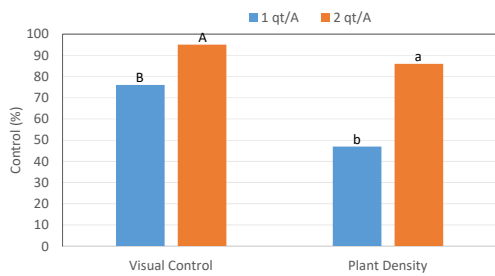
Results-Visual Estimates of Control



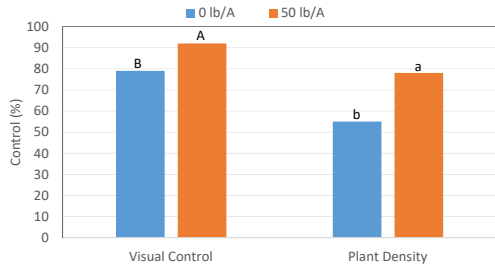
Results – Density



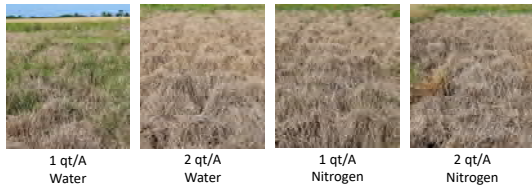
Hexazinone



Nitrogen Effects



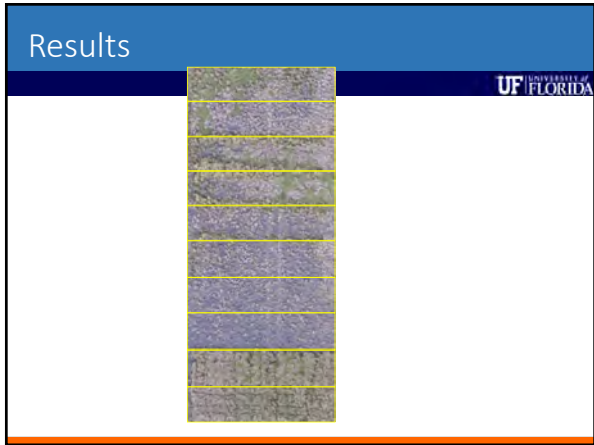
Results

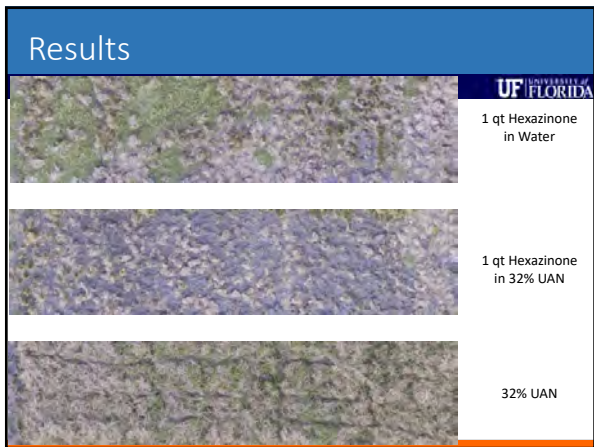


Results










Dry Fertilizer and Hexazinone

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- Ammonium Nitrate
- 10-5-10; 500 lb/A
- 1, 1.5, & 2 qt/A
- Pendulum fertilizer spreader

Results

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Broadcast
2 qt/A

10-5-10
1 qt/A

10-5-10
2 qt/A

Results

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1 qt Hexazinone in Water

2 qt Hexazinone in Water

1 qt Hexazinone 10-5-10

1.5 qt Hexazinone 10-5-10

2.0 qt Hexazinone 10-5-10

Commercial Application



Future Research



- Application timing of 32% UAN
- Other N sources
- Concentrations of N sources

Take Home Message



- Too early to make a solid recommendation using UAN
- Moisture is likely going to continue to be a major component of hexazinone efficacy
- Smutgrass control requires yearly management

Questions?

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- 863-735-1314



EDIS Fact Sheet: <https://edis.ifas.ufl.edu/aa261>

August Ona Highlight

"Current Issues and Initiatives of the Florida Cattlemen's Association."

- FCA Guest Speakers
 - Gene Lollis
 - Jim Handley
- August 11, 11:00 AM – 12:00 PM
