Applying Hexazinone with Fertilizer for Smutgrass Control
Brent Sellers

Smutgrass

Chemical Control - hexazinone
- 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

![Bar chart showing control results with Hexazinone rate] (0 lb N vs 50 lb N)

Results - Density

![Bar chart showing density reduction with Hexazinone rate] (0 lb N vs 50 lb N)

Hexazinone

![Bar chart showing visual control and plant density] (1 qt/A vs 2 qt/A)
Nitrogen Effects

Results

Results
Dry Fertilizer and Hexazinone

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

Results

Broadcast
2 qt/A

10-5-10
1 qt/A

10-5-10
2 qt/A

Results

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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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