

# North Carolina State University

## Clumpy Ryegrass Control in Bermudagrass

Trial ID: 01-D21                      Study Dir.: Travis Gannon and Jason Hinton  
Location: Sandhills Station      Investigator: Fred Yelverton

### GENERAL TRIAL INFORMATION

**Study Director:** Travis Gannon and Jason Hinton      **Title:** Research Technician  
**Affiliation:** North Carolina State University  
**Postal Code:** 27695  
**Investigator:** Fred Yelverton      **Title:** Professor  
**Affiliation:** North Carolina State University  
**Postal Code:** 27695

### TRIAL LOCATION

**City:** Jackson Springs      **Trial Status:** Completed  
**State/Prov.:** NC  
**Postal Code:** 27281      **Initiation Date:** 04-05-01  
**Country:** USA

**Conducted Under GLP (Y/N):** N      **Conducted Under GEP (Y/N):** N

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	LOLPE	Perennial Ryegrass	Lolium perenne

**Crop 1:** CYNDA Bermudagrass

**Variety:** Tifway

### SITE AND DESIGN

**Plot Width, Unit:** 5 FT      **Plot Length, Unit:** 8 FT      **Reps:** 4  
**Study Design:** RANDOMIZED COMPLETE BLOCK

### APPLICATION DESCRIPTION

	A
<b>Application Date:</b>	04-05-01
<b>Time of Day:</b>	11-11:30A
<b>Application Method:</b>	SPRAY
<b>Application Timing:</b>	POST
<b>Applic. Placement:</b>	FOLIAR
<b>Air Temp., Unit:</b>	72.7 F
<b>% Relative Humidity:</b>	25
<b>Wind Velocity, Unit:</b>	0.7 MPH
<b>Dew Presence (Y/N):</b>	N
<b>Water Hardness:</b>	N/A
<b>Soil Temp., Unit:</b>	58 F
<b>Soil Moisture:</b>	GOOD
<b>% Cloud Cover:</b>	10

### CROP STAGE AT EACH APPLICATION

	A
<b>Crop 1 Code, Stage:</b>	CYNDA 20%GREEN
<b>Stage Scale:</b>	UNMOWED

### WEED STAGE AT EACH APPLICATION

	A
<b>Weed 1 Code, Stage:</b>	LOLPE 2-5 TILL
<b>Density, Unit:</b>	1-12 FT <sup>2</sup>

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### APPLICATION EQUIPMENT

	<b>A</b>
<b>Appl. Equipment:</b>	CO2 SPRAY
<b>Operating Pressure:</b>	42 PSI
<b>Nozzle Type:</b>	FLAT FAN
<b>Nozzle Size:</b>	8002/8003
<b>Nozzle Spacing, Unit:</b>	10 INCH
<b>Nozzles/Row:</b>	4
<b>Boom Length, Unit:</b>	40 INCH
<b>Boom Height, Unit:</b>	10 INCH
<b>Ground Speed, Unit:</b>	3 MPH
<b>Carrier:</b>	WATER
<b>Propellant:</b>	COMP. CO2











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Weed Code	CYND GREENUP	CYND GREENUP	CYND GREENUP
Crop Code			
Rating Data Type			
Rating Unit	%	%	%
Rating Date	05-10-01	05-29-01	06-26-01
Trt-Eval Interval	5 WAT	8 WAT	12 WAT
Replicate F	0.480	2.981	0.000
Replicate Prob(F)	0.6978	0.0420	1.0000
Treatment F	3.564	1.049	0.000
Treatment Prob(F)	0.0007	0.4282	1.0000

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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### Trial Comments

4-5-01 - clumpy rye clumps ranged in size from 0.25 - 2 inch diameter