

# University of GA Coop Ext Service

## Efficacy of Plateau for Use on Newly-Sprigged Forage Bermudagrass

Trial ID: Forage10-03

Study Director: Tim Murphy

Location: Eatonton

Investigator: Clint Waltz

### General Trial Information

Study Director: Tim Murphy

Title: Weed Scientist

Affiliation: UGA-CAES

E-mail: tmurphy@uga.edu

Investigator: Clint Walsh

Title: Weed Scientist

Affiliation: UGA-CAES

Investigator: Jay Ferrell

Title: Res. Scientist

Affiliation: UGA-CAES

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### Trial Location

City: Eatonton

Trial Status: ONE-YEAR/FINAL

State/Prov.: GA

Initiation Date: 5-30-2003

### Cooperator/Landowner

Cooperator: Todd Horton

Organization: BASF

### Crop Description

Crop 1: CYNDA *Cynodon dactylon*

Common Name: Bermudagrass

Variety: Alicia

BBCH Scale: BGRM

Planting Date: 4-24-2003

Planting Method: No-till sprig

Rate, Unit: 60-80 bu/ac

### Pest Description

Pest 1 Type: W Code: DIGSP *Digitaria ciliaris*

Common Name: Crabgrass, southern

Pest 2 Type: W Code: ELEIN *Eleusine indica*

Common Name: Goosegrass

### Site and Design

Plot Width, Unit: 10 FT Replications: 4 Plot Length, Unit: 30 FT

Study Design: Randomized Complete Block Site Type: no-tilled sprigged bermuda field

Trial Initiation Comments: 75 feet wide x 165 feet long with 15 foot alleys.

Spray 10 on 15 foot centers.

### Application Description

|                         | A         |
|-------------------------|-----------|
| Application Date:       | 5-30-2003 |
| Time of Day:            | 12:15 pm  |
| Application Method:     | SPRAY     |
| Application Timing:     | POSPOS    |
| Application Placement:  | FOLIAR    |
| Air Temperature, Unit:  | 80 F      |
| % Relative Humidity:    | 50        |
| Wind Velocity, Unit:    | 3.5 mph   |
| Dew Presence (Y/N):     | N         |
| Soil Temperature, Unit: | 81 F      |
| Soil Moisture:          | Fair      |
| % Cloud Cover:          | 30        |

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#### Crop Stage At Each Application

|                          | A              |
|--------------------------|----------------|
| Crop 1 Code, BBCH Scale: | CYNDA          |
| Diameter, Unit:          | 0-7 in Runners |
| Height, Unit:            | 6 in           |
| Height Minimum, Maximum: | 3, 7 in        |

#### Pest Stage At Each Application

|                            | A       |
|----------------------------|---------|
| Pest 1 Code, Disc., Scale: | DIGSP W |
| Diameter, Unit:            | 4-11 in |
| Height, Unit:              | 6 in    |
| Height Minimum, Maximum:   | 3 7     |
| Density, Unit:             | 65 %    |

#### Application Equipment

|                       | A           |
|-----------------------|-------------|
| Appl. Equipment:      | Cub Tractor |
| Operating Pressure:   | 32          |
| Pressure Unit:        | psi         |
| Nozzle Type:          | Flat fan    |
| Nozzle Size:          | 8004        |
| Nozzle Spacing, Unit: | 20 inch     |
| Boom Length, Unit:    | 10 ft       |
| Boom Height, Unit:    | 27 in       |
| Ground Speed, Unit:   | 2.4 mph     |
| Carrier:              | water       |
| Spray Volume:         | 25          |
| Volume Unit:          | GAL/AC      |
| Propellant:           | ComprsAir   |
| Tank Mix (Y/N):       | N           |

#### Trt No Treatment Application Comment

2 5-30-03; Ran out of spray mix about 3/4 way through Plot #403 on Treatment #2.

#### Trial Comments

6-23-03:  
Bermudagrass, CYNDA, injury expressed as stunting, no discoloration.  
Goosegrass, ELEIN, not controlled by Plateau in any treatment.

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| Pest Code               |                             |           |           |                           | DIGSP         | DIGSP         | DIGSP        |
|-------------------------|-----------------------------|-----------|-----------|---------------------------|---------------|---------------|--------------|
| Crop Code               |                             | CYNDA     | CYNDA     | CYNDA                     |               |               |              |
| Description             |                             | Bermuda   | Bermuda   | Bermuda                   | Sthrn Crabgrs | Sthrn Crabgrs | SthrnCrabgrs |
| Part Rated              |                             | Foliag    | Foliag    | Foliag                    |               |               |              |
| Rating Date             |                             | 6-10-2003 | 6-23-2003 | 7-29-2003                 | 6-10-2003     | 6-23-2003     | 7-29-2003    |
| Rating Data Type        |                             | Injury    | Injury    | Injury                    | Control       | Control       | Control      |
| Rating Unit             |                             | 0-100     | 0-100     | 0-100                     | 0-100         | 0-100         | 0-100        |
| Days After Last Applic. |                             | 11        | 24        | 60                        | 11            | 24            | 60           |
| Trt-Eval Interval       |                             | 11 DA-A   | 24 DA-A   | 60 DA-A                   | 11 DA-A       | 24 DA-A       | 60 DA-A      |
| Trt No.                 | Treatment Name              | Form Conc | Form Type | Rate Rate                 | Appl Unit     | Code          |              |
| 1                       | Untreated Check             |           |           |                           | A             |               | 0 b          |
| 2                       | Plateau +<br>Chem-Nut 80/20 | 2 SL      | SL        | 2.0 fl oz/a<br>0.25 % v/v | A             |               | 6 a          |
| 3                       | Plateau +<br>Chem-Nut 80/20 | 2 SL      | SL        | 4.0 fl oz/a<br>0.25 % v/v | A             |               | 10 a         |
| 4                       | Plateau +<br>Chem-Nut 80/20 | 2 SL      | SL        | 6.0 fl oz/a<br>0.25 % v/v | A             |               | 9 a          |
| 5                       | Plateau +<br>Chem-Nut 80/20 | 2 SL      | SL        | 8.0 fl oz/a<br>0.25 % v/v | A             |               | 11 a         |
| LSD (P=.05)             |                             |           |           |                           |               |               | 5.1          |
| Standard Deviation      |                             |           |           |                           |               |               | 3.3          |
| CV                      |                             |           |           |                           |               |               | 45.83        |

| Pest Code               |                             |           |           |                           |           |      |            |
|-------------------------|-----------------------------|-----------|-----------|---------------------------|-----------|------|------------|
| Description             |                             |           |           |                           |           |      |            |
| Part Rated              |                             |           |           |                           |           |      |            |
| Rating Date             |                             |           |           |                           |           |      |            |
| Rating Data Type        |                             |           |           |                           |           |      |            |
| Rating Unit             |                             |           |           |                           |           |      |            |
| Days After Last Applic. |                             |           |           |                           |           |      |            |
| Trt-Eval Interval       |                             |           |           |                           |           |      |            |
| Trt No.                 | Treatment Name              | Form Conc | Form Type | Rate Rate                 | Appl Unit | Code |            |
|                         |                             |           |           |                           |           |      | ELEIN      |
|                         |                             |           |           |                           |           |      | Goosegrass |
|                         |                             |           |           |                           |           |      | 7-29-2003  |
|                         |                             |           |           |                           |           |      | Control    |
|                         |                             |           |           |                           |           |      | 0-100      |
|                         |                             |           |           |                           |           |      | 60         |
|                         |                             |           |           |                           |           |      | 60 DA-A    |
| 1                       | Untreated Check             |           |           |                           | A         |      | 0 b        |
| 2                       | Plateau +<br>Chem-Nut 80/20 | 2 SL      | SL        | 2.0 fl oz/a<br>0.25 % v/v | A         |      |            |
| 3                       | Plateau +<br>Chem-Nut 80/20 | 2 SL      | SL        | 4.0 fl oz/a<br>0.25 % v/v | A         |      | 2 b        |
| 4                       | Plateau +<br>Chem-Nut 80/20 | 2 SL      | SL        | 6.0 fl oz/a<br>0.25 % v/v | A         |      | 3 b        |
| 5                       | Plateau +<br>Chem-Nut 80/20 | 2 SL      | SL        | 8.0 fl oz/a<br>0.25 % v/v | A         |      | 46 a       |
| LSD (P=.05)             |                             |           |           |                           |           |      | 7.3        |
| Standard Deviation      |                             |           |           |                           |           |      | 4.5        |
| CV                      |                             |           |           |                           |           |      | 35.35      |

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