

University of Georgia

Cotton and weed response to Reflex and Caparol applied PRE.

Trial ID: C13-05

Study Dir.: Stanley Culpepper

Location: Jones Farm

Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Evaluate cotton and weed response to Reflex and Caparol PRE.

Cotton Response:

- 1) Within 2 days several heavy rains occurred followed by cool/cold weather.
- 2) Injury was similar among treatments ranging from 3 to 13% at 24 DAT.
- 3) There did tend to be more injury with higher rates of each herbicide.

Palmer amaranth:

- 1) All Reflex programs provided excellent control throughout the trial.
- 2) Caparol provided excellent control at 24 DAT but control was fair and on the way down at 35 DAT.
- 3) By 35 DAT, 1.5 lb of Cotoran was significantly more effective than 1.0 lb of Cotoran when mixed with Prowl.

Large crabgrass:

- 1) Excellent control by all programs was noted at 24 DAT.
- 2) By 35 DAT, control was excellent with Cotoran or Direx + Prowl, Caparol at 1.5 lb, and Caparol at 1.0 lb + Reflex at 0.37 lb

Florida pusley:

- 1) Caparol and Reflex applied alone provided good control for 24 d; however, poor control was noted by 35 DAT.
- 2) At 35 DAT, excellent control was noted with Cotoran 1.5 lb or Direx + Prowl while good control was noted with Caparol at 1.25 lb plus Reflex at 0.25 lb and Cotoran at 1 lb + Prowl.

CONCLUSIONS:

- 1) Reflex would be a great tool for cotton. Use rate should be 0.25 lb ai/A applied PRE.
- 2) Combinations of Prowl, Cotoran, or Direx + Reflex would likely be more effective than Reflex + Caparol.

GENERAL COMMENTS:

1. Gramoxone at 1.5 pt/A was applied over the trial area on April 15 to kill mature wheat that was only 20 inches tall.

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Weed Code		GOSHI	GOSHI	AMAPA	AMAPA	DIGSA	DIGSA	RCHSC	RCHSC
Crop Code		injury	injury	control	control	control	control	control	control
Rating Data Type		percent	percent	percent	percent	percent	percent	percent	percent
Rating Unit		percent	percent	percent	percent	percent	percent	percent	percent
Rating Date		May-13-05	May-24-05	May-13-05	May-24-05	May-13-05	May-24-05	May-13-05	May-24-05
Trt-Eval Interval		28 DA-A	39 DA-A	28 DA-A	39 DA-A	28 DA-A	39 DA-A	28 DA-A	39 DA-A
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
1	Non-treated								
2	Caparol	1 lb ai/a							
3	Caparol	1.25 lb ai/a							
4	Caparol	1.5 lb ai/a							
5	Reflex	0.185 lb ai/a							
6	Reflex	0.25 lb ai/a							
7	Reflex	0.37 lb ai/a							
8	Caparol Reflex	1 lb ai/a 0.185 lb ai/a							
9	Caparol Reflex	1 lb ai/a 0.25 lb ai/a							
10	Caparol Reflex	1 lb ai/a 0.37 lb ai/a							
11	Caparol Reflex	1.25 lb ai/a 0.185 lb ai/a							
12	Caparol Reflex	1.25 lb ai/a 0.25 lb ai/a							
13	Caparol Reflex	1.25 lb ai/a 0.25 lb ai/a							
14	Cotoran Prowl H20	1 lb ai/a 0.93 lb ai/a							
15	Cotoran Prowl H20	1.5 lb ai/a 0.93 lb ai/a							
16	Direx Prowl H20	1 lb ai/a 0.93 lb ai/a							
LSD (P=.05)		11.8	7.2	2.7	11.2	10.2	16.8	12.1	16.6
Standard Deviation		7.1	4.3	1.6	6.7	6.1	10.0	7.3	9.9
CV		98.25	152.73	1.73	7.8	6.8	13.7	8.71	16.38

Means followed by same letter do not significantly differ (P=.05, LSD)

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MAINTENANCE

Field Prep./Maintenance:

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

SOIL DESCRIPTION

% Sand: 95	% OM: 0.67	Texture: sandy loam
% Silt: 2	pH: 5.8	Soil Name: Tifton sandy loam
% Clay: 3	CEC: _____	Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: wet

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	Apr-19-05
Time of Day:	11 am
Application Method:	broadcast
Application Timing:	PRE
Applic. Placement:	soil/resi
Air Temp., Unit:	74 F
% Relative Humidity:	49
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	77 F
Soil Moisture:	moist
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GOSHI PRE
Stage Scale:	not up
Height, Unit:	0 inch

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WEED STAGE AT EACH APPLICATION

A	
Weed 1 Code, Stage:	AMAPA PRE
Stage Scale:	not up
Density, Unit:	8 ydsq
Weed 2 Code, Stage:	DIGSA PRE
Stage Scale:	not up
Density, Unit:	18 ydsq
Weed 3 Code, Stage:	RCHSC PRE
Stage Scale:	not up
Density, Unit:	12 ydsq

APPLICATION EQUIPMENT

A	
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	2
Band Width, Unit:	
Boom Length, Unit:	4.5 feet
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 G
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment